

WATER QUALITY OF THE
TIDAL POTOMAC RIVER AND ESTUARY—
HYDROLOGIC DATA REPORTS SUPPLEMENT,
1979 THROUGH 1981 WATER YEARS

by Richard H. Coupe, Jr. and Wayne E. Webb



U.S. GEOLOGICAL SURVEY
Open-File Report 84—132

Reston, Virginia
1984

UNITED STATES DEPARTMENT OF THE INTERIOR

WILLIAM P. CLARK, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For additional information write to:

Chief Hydrologist
430 National Center
U.S. Geological Survey WRD
Reston, Virginia 22092

Copies of this report can
be purchased from:

Open-File Services Section
Western Distribution Branch
Box 25425, Federal Center
Denver, Colorado 80225

CONTENTS

	Page
Abstract	1
Introduction	2
Methods of sample collection	11
Sampling at major stations	12
Sampling at intervening stations.	12
Longitudinal sampling	12
Sampling equipment.	12
In situ measurements.	13
Methods of sample analysis	14
Bacterial	14
Biochemical oxygen demand	14
Chlorophyll-a	17
Incident light.	18
Light attenuation	18
Aids for using the data.	18
Time.	18
Sampling depth.	18
pH.	19
Sample location	19
Dissolved oxygen.	19
Missing data	19
Blue Plains Sewage Treatment Plant	19
Parameter codes	19
Remarks	20
Computation of cross-section average concentration	20
Phytoplankton	21
Tidal river volumes	22
Sewage treatment plant loads.	22
Sampling bias	25
References	27

ILLUSTRATIONS

	Page
Figure 1. The tidal Potomac River and Estuary	3
2. The tidal River zone.	4
3. The transition zone	5
4. The estuarine zone	6

TABLES

Table 1. Volumes and surface areas of the tidal Potomac River including tributaries.	23
2. Volumes and surface areas of the tidal Potomac River with tributaries excluded.	24
3. Sampling bias.	26

APPENDIXES

Appendix A. Biochemical oxygen demand and light data.	29
B. Cross section averages.	311
C. Sewage treatment plant loads.	349

CONVERSION FACTORS

For use of readers who prefer to use metric units, conversion factors for terms used in this report are listed below:

<u>Multiply inch-pound unit</u>	<u>by</u>	<u>To obtain SI unit</u>
	<u>Length</u>	
inch (in)	25.40	millimeter (mm)
foot (ft)	0.3048	meter (m)
mile (mi)	1.609	kilometer (km)
nautical mile (nmi)	1.852	kilometer (km)
	<u>Volume</u>	
gallon (gal)	3.785	liter (L)
cubic foot (ft ³)	0.02832	cubic meter (m ³)
	<u>Flow</u>	
cubic foot per second (ft ³ /s)	0.02832	cubic meter per second (m ³ /s)
million gallons per day (Mgal/d)	0.04381	cubic meter per second (m ³ /s)
	<u>Temperature</u>	
degree Fahrenheit (F°)	°C = 5/9 (°F -32)	degree Celsius (C°)

WATER QUALITY OF THE TIDAL POTOMAC RIVER AND ESTUARY--HYDROLOGIC DATA
REPORTS, SUPPLEMENT 1979 THROUGH 1981 WATER YEARS
by Richard H. Coupe Jr. and Wayne E. Webb

ABSTRACT

This report is a companion report to the U.S. Geological Survey 1979, 1980, and 1981 Hydrologic Data Reports of the tidal Potomac River and Estuary. The information included in this report contains values of biochemical oxygen demand and specific-rate constants, incident-light and light-attenuation measurements; numbers of phytoplankton, fecal coliform and fecal streptococci; cross-sectional averages from field measurements of dissolved oxygen, pH, specific conductance, and temperature data; and cross-sectional averages of chlorophyll data. Sewage-treatment plant loads are also included.

INTRODUCTION

The U.S. Geological Survey has conducted an interdisciplinary study of the tidal Potomac River and Estuary. This study blended research with RQA (river-quality assessment) in the study of an estuarine environment. The overall goal was to understand the major aspects of hydrodynamic, chemical, and biological processes and their interaction in a tidal river-estuarine system.

The first field efforts of the PES (Potomac Estuary Study) were in August 1977 (Smith and Herndon, 1979), and in January, April, and August 1978 (Smith and Herndon, 1980a, 1980b, 1980c). The fieldwork and the research of Glenn (1978) provided sufficient information to other investigators to select five major stations at which the transport of dissolved and suspended materials would be examined in detail. This report presents data collected during the 1979, 1980 and 1981 water years at these five major stations, at 21 intervening stations, and at three stations near the mouth of the Potomac River in Chesapeake Bay.

The tidal Potomac River and its estuary can be divided into three distinctly different hydrodynamic zones (fig. 1). The tidal river zone contains fresh water and is strongly influenced by river flow but also experiences tides and their associated cyclical reversals of flow. The transition zone contains fresh and saline waters that are influenced by riverine and tidal flows. The estuarine zone contains saline water that is strongly influenced by tidal flow.

Sampling stations and their respective hydrodynamic zone are listed in the following tabulation. Locations of the stations are shown in figures 2, 3, and 4. River distances, in kilometers, are measured upstream from the center of a line drawn between Smith Point and Point Lookout at the mouth of the river, which is kilometer 0.

Major stations

Station number	Station name	River distance (km)	Date activated	Zone
01646580	Potomac River at Chain Bridge at Washington, D.C.	187.2	December, 1977	Riverine - tidal river boundary
01652590	Potomac River at Alexandria, Va.	168.0	October, 1978	Tidal river
01658710	Potomac River at Quantico, Va.	125.6	October, 1978	Tidal river - transition boundary
01660800	Potomac River near Morgantown, Md.	80.4	February, 1979	Transition - estuarine boundary
01661475	Potomac River at Piney Point, Md.	29.8	July, 1979	Estuarine

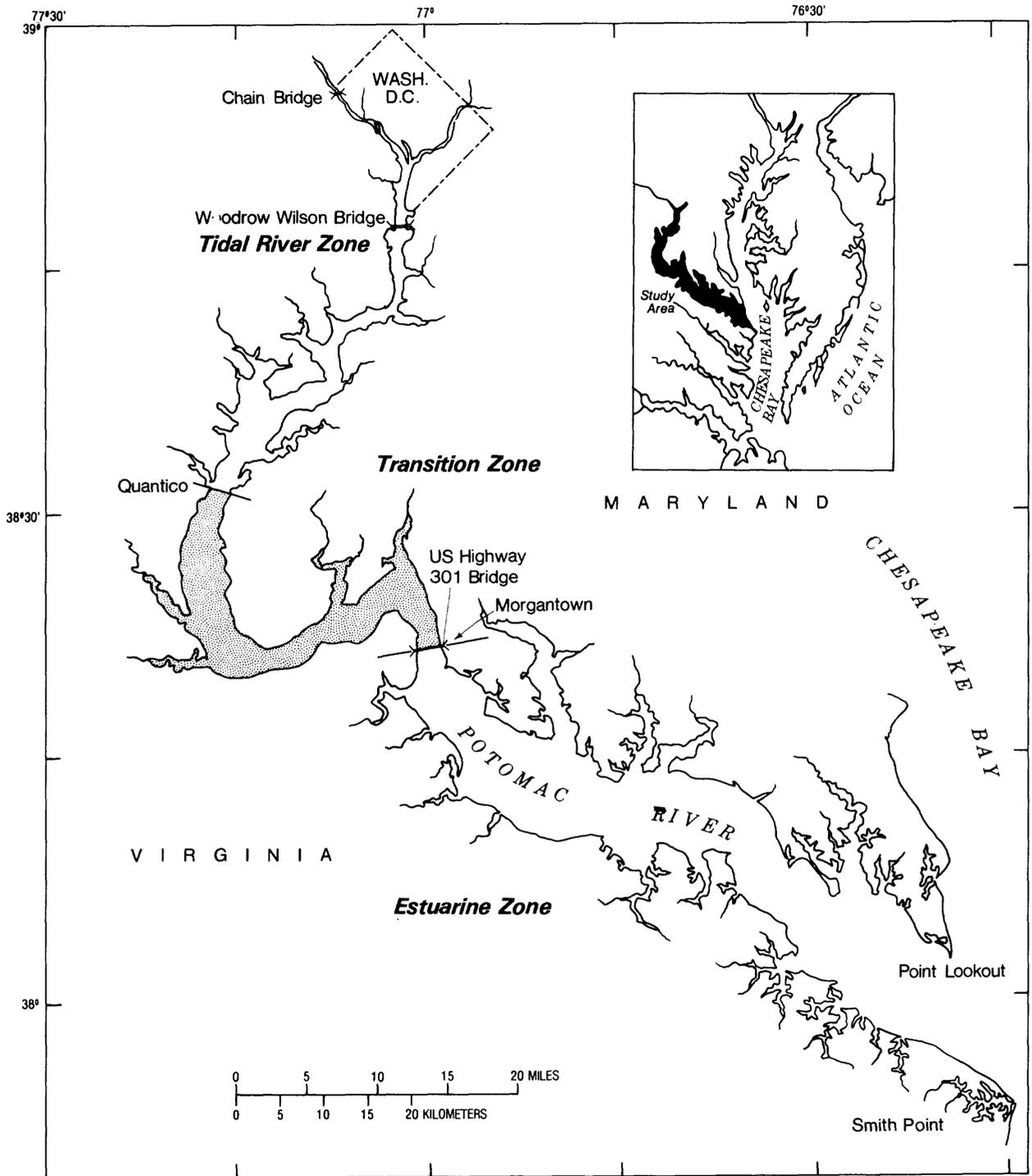


Figure 1.-- The Tidal Potomac River and Estuary.

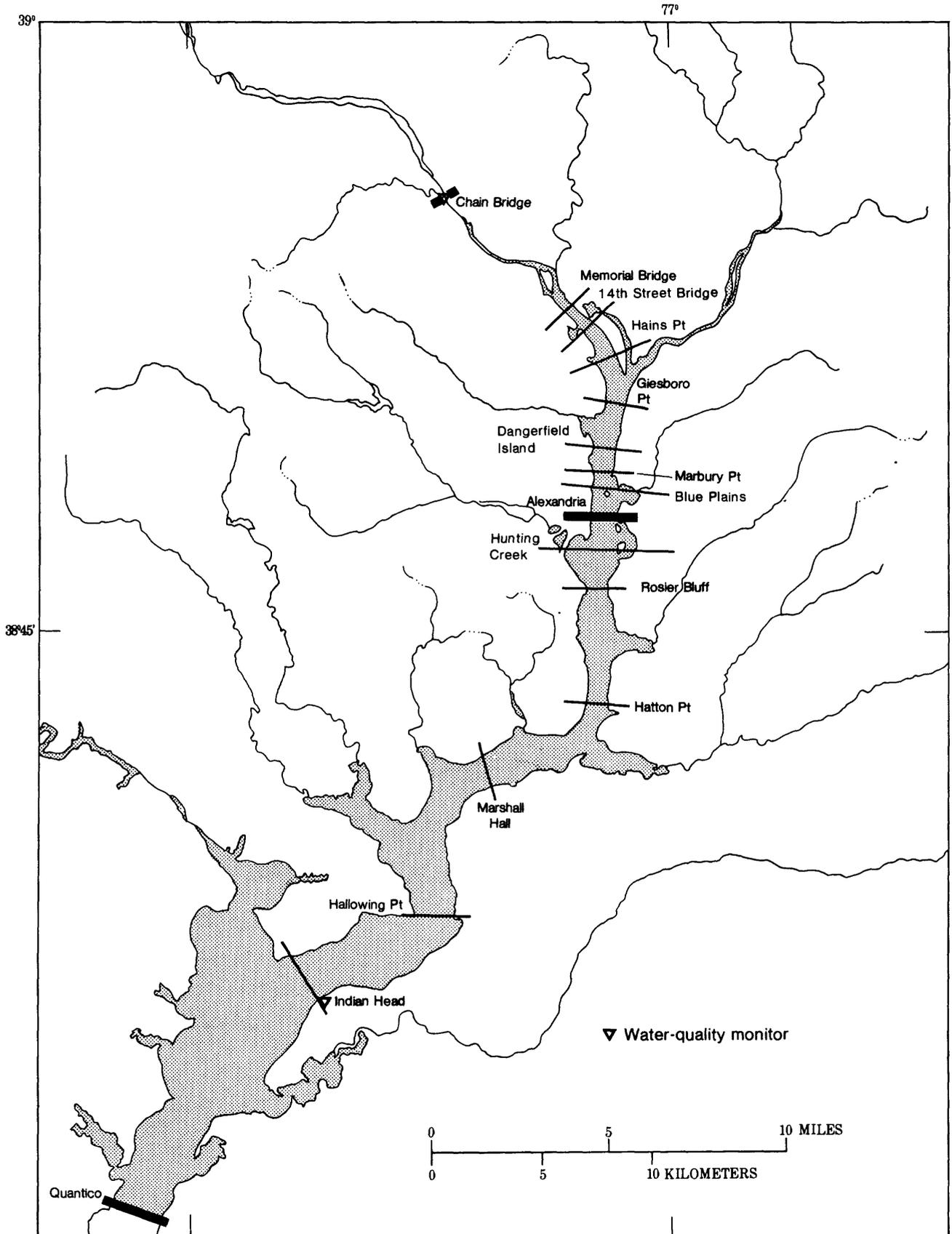


Figure 2.-- Tidal river zone showing major sampling stations (wide lines) and intervening sampling stations (narrow lines).

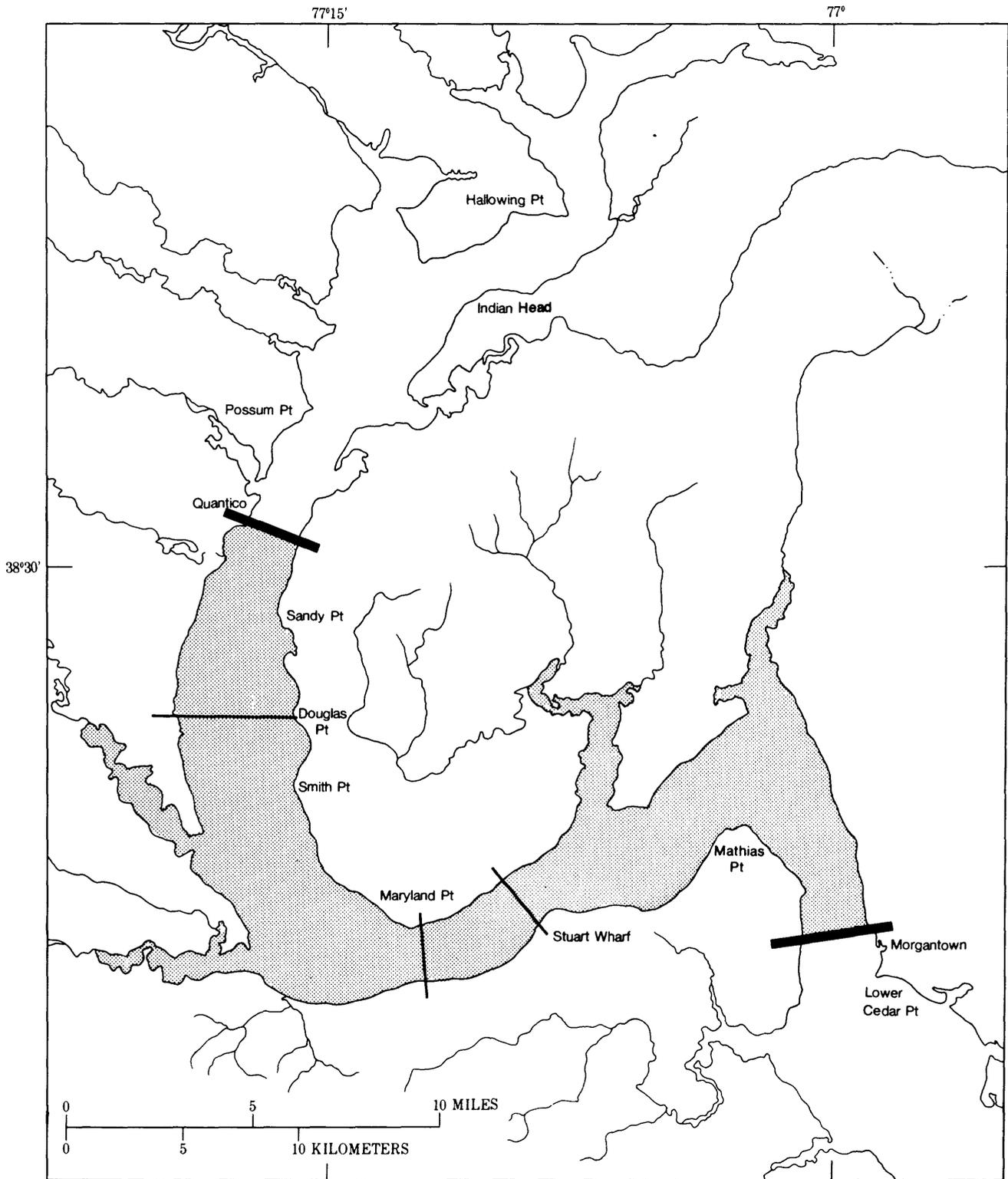


Figure 3.-- Transition zone showing major sampling stations (wide lines) and intervening sampling stations (narrow lines).

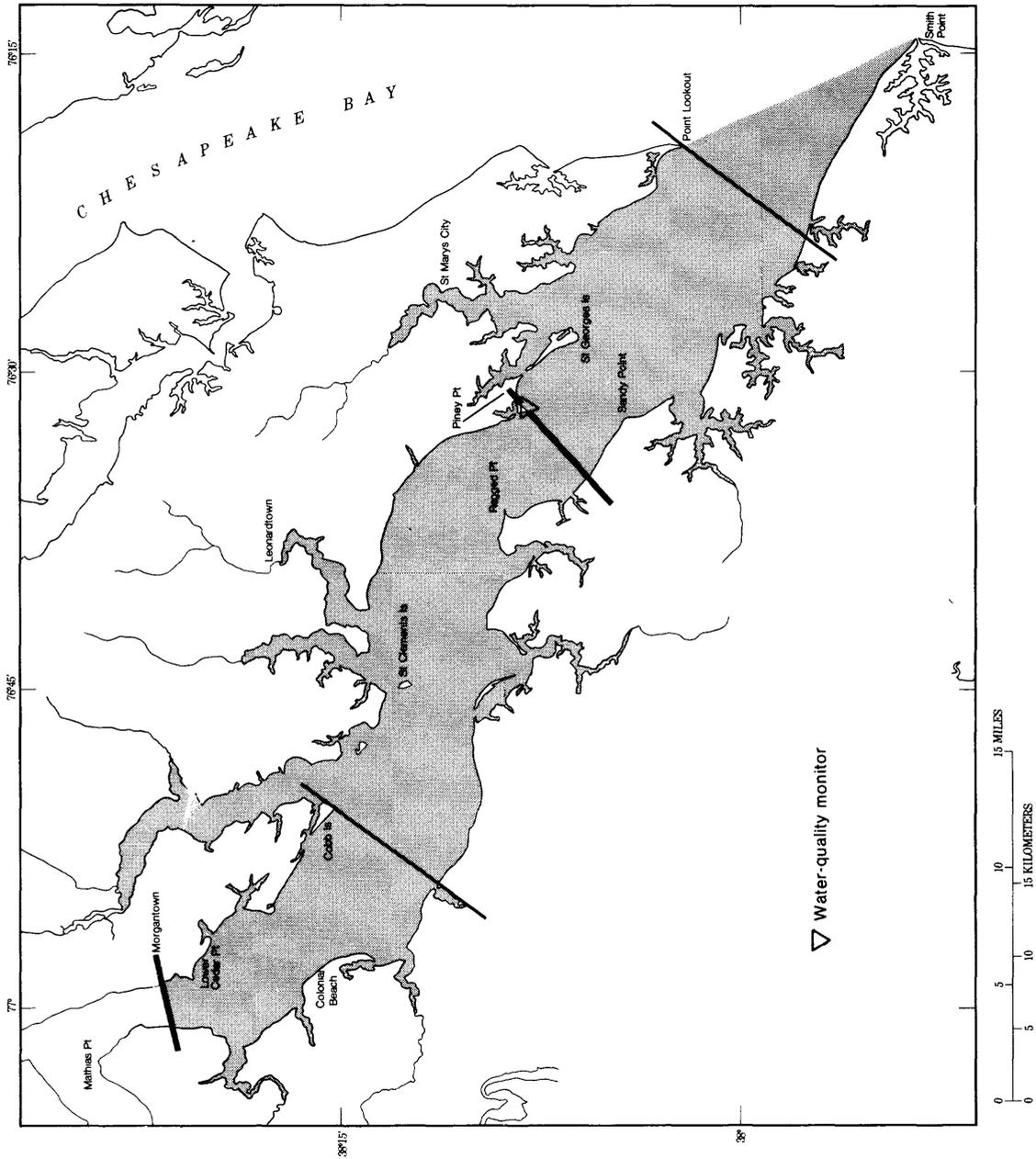


Figure 4.-- Estuarine zone showing major sampling stations (wide lines) and intervening sampling stations (narrow lines).

Magnitudes of BOD (Biochemical Oxygen Demand), incident light, light attenuation, phytoplankton counts, fecal coliform, and fecal streptococci for each sampling station (major and intervening) are listed in downstream order in Appendix A. Cross-sectional averages of DO (dissolved oxygen), pH, conductivity, temperature, incident light, light attenuation, and chlorophyll data at each sampling station are listed in Appendix B.

Samples were collected at least once weekly at each of the five major stations and intermittently during the 1979 water year at Potomac River near Morgantown, Md. and Potomac River at Piney Point, Md. Samples were collected for selected tidal conditions such as during periods of maximum flood velocity, maximum ebb velocity, high slack water, or low slack water. During periods of greatly increased river discharge, the tidal sequence of sampling was discontinued in favor of sampling several times daily. Tidal currents and tidal stages for specific sampling times were obtained from the National Ocean Survey's Tidal Current Tables and Tide Tables (1977a,b; 1978a,b; 1979a,b; 1980a,b). Relevant parts of these tables are reproduced in the 1979, 1980, and 1981 Hydrologic Data Reports (Blanchard and Hahl, 1981; Blanchard and others, 1982; Blanchard and Coupe, 1982). The predicted tides do not always agree with actual conditions. Tidal stages were measured at the following Survey stations on the Potomac River:

<u>Station number</u>	<u>Station name</u>	<u>Date activated</u>
01647600	Potomac River at Wisconsin Ave., Washington, D.C.	April, 1935
01652590	Potomac River at Alexandria, Va.	February, 1979
01655480	Potomac River at Indian Head, Md.	January, 1979
01658710	Potomac River at Quantico, Va.	April, 1979
01660800	Potomac River near Morgantown, Md.	January, 1979
01661475	Potomac River at Piney Point, Md.	August, 1979
01661590	Potomac River at Pt. Lookout, Md.	January, 1979

Tidal-stage data for these stations can be obtained through the PES Hydrodynamics Group (R. W. Schaffranek, U.S. Geological Survey, Reston, Va., Oral commun., July 1982).

In addition to samples collected on a regular basis, a few sets of samples were collected at the major stations to compare point, depth-integrated, and composite samples. At intervening stations, the nature and frequency of sampling was determined by the demands of various research efforts.

Intervening stations

<u>Station Number</u>	<u>Station Name</u>	<u>River distance (km)</u>	<u>Data collection period (water year)</u>	<u>Zone</u>
385315077031800	Potomac River at Memorial Bridge, Washington, D.C.	179.5	1979-1981	Tidal river
385223077022400	Potomac River at 14th Street Bridge, Washington, D.C.	177.3	1980-1981	Tidal river
385130077014501	Potomac River at Hains Point, Washington, D.C.	175.3	1979	Tidal river
385039077012600	Potomac River at Giesboro Point, Washington, D.C.	173.7	1979-1981	Tidal river
385141077015000	Potomac River at Dangerfield Island, Washington, D.C.	171.3	1979	Tidal river
384852077020500	Potomac River at Marbury Point, Washington, D.C.	170.4	1979-1981	Tidal river
384815077011001	Potomac River at Blue Plains, Washington, D.C.	170.3	1979	Tidal river
384852077014000	Blue Plains Sewage Treatment Plant, Washington, D.C.		1979-1980	
384852077014001	Blue Plains Sewage Treatment Plant, Outfall 001, Washington, D.C.		1981	

Intervening stations (con't)

<u>Station number</u>	<u>Station name</u>	<u>River distance (km)</u>	<u>Data-collection period (water year)</u>	<u>Zone</u>
384852077014002	Blue Plains Sewage Treatment Plant, Outfall 002, Washington, D.C.		1981	
384700077013001	Potomac River at Hunting Creek, Va.	166.9	1979	Tidal river
384605077015800	Potomac River at Rosier Bluff, Md.	165.6	1979-1981	Tidal river
384318077020300	Potomac River at Hatton Point, Md.	160.0	1979-1981	Tidal river
384136077054600	Potomac River at Marshall Hall, Md.	151.0	1979-1981	Tidal river
383818077072800	Potomac River at Hallowing Point, Va.	144.0	1980-1981	Tidal river
01655480	Potomac River at Indian Head, Md.	138.9	1980-1981	Tidal river
382640077159900	Potomac River at Douglas Point, Md.	116.7	1979-1980	Transition
382124077122700	Potomac River at Maryland Point, Md.	103.5	1979-1980	Transition
382233077102000	Potomac River at Stuart Wharf, Md.	98.9	1980-1981	Transition
381516076503000	Potomac River at Cobb Island, Md.	60.0	1979-1981	Estuarine
380212076195000	Potomac River at Pt. Lookout, Md	6.5	1979-1981	Potomac-Chesapeake boundary

Chesapeake Bay stations

<u>Station number</u>	<u>Station name</u>	<u>Data-collection period (water year)</u>	<u>Latitude and longitude</u>
380200076153000	Chesapeake Bay near Potomac River off Pt. Lookout, Md.	1980	38°02'00" 76°15'30"
380200076124100	Chesapeake Bay near Potomac River off Pt. Lookout, Md. Trench	1980-1981	38°02'00" 76°15'41"
375248076094200	Chesapeake Bay near Potomac River off Smith Pt., Va.	1980-1981	38°02'00" 76°12'41"

In addition to the sampling program outlined above, three water-quality monitors and two pyranometers were in operation. The water-quality monitors were at Potomac River at Chain Bridge at Washington, D.C., Potomac River at Indian Head, Md., and Potomac River at Piney Point, Md. These monitors provided continuous records of dissolved oxygen, specific conductance, pH, and temperature at one point in the cross section. Data from these monitors are reported in the annual report series Water Resources Data for Maryland and Delaware (U.S. Geological Survey, 1980, 1981, 1982). The pyranometers were operated at Potomac River at Alexandria, Va., and Potomac River at Indian Head, Md. Eppley^{1/} pyranometers (Model PSP) were mounted on roof tops that were free from surrounding obstacles. Data from the pyranometers were integrated to obtain total daily radiation and are reported in the 1979, 1980, and 1981 Hydrologic Data reports, by Blanchard and Hahl (1981), Blanchard and others (1982), and Blanchard and Coupe (1982).

METHODS OF SAMPLE COLLECTION

To be truly representative, a water sample must represent all the water and material passing through a cross section at the time of sampling. Such a sample is obtained by considering the distribution of the suspended material and dissolved constituents at the sampling site and by designing the sampling scheme to provide representative samples at all depths and from bank to bank.

Tidal rivers and estuaries present special problems in terms of obtaining representative samples. Tidally driven flow reversals create continually changing velocity profiles and may create stratification and opposing velocities; this compounds the problems of sample collection. Changes in riverine flow and oceanic tides are superimposed on the semi-diurnal tide of the Potomac River. The result of these changes is that longitudinal mixing is not complete. Thus, sampling needs to be both rapid, from bank to bank and top to bottom, and repetitive to integrate the effects of the various pulses. To satisfy these requirements and to obtain spatially representative samples, two approaches were taken. (1) At cross sections where one vertical was determined to be representative of the entire cross section, that vertical was used for sample collection at that site. (2) At cross sections where one vertical was not representative, the sample was composited from two or more verticals using a churn splitter.

A comparison of flow-weighted and area-weighted instantaneous-load computations was made to determine if it was necessary to make velocity measurements. In all cases tested, there was less than a 10 percent difference between the load computed using flow weighting and area weighting; and thus throughout the study, area-weighted samples were collected. When the computations were made for cross-sectionally averaged concentrations, an area weighting procedure was used. Based on the results of this test, water velocity was not measured.

^{1/}The use of brand names in this report is for identification purposes only and does not constitute endorsement by the U.S. Geological Survey.

Sampling at major stations

Each zone of the tidal Potomac River and Estuary presents different conditions that must be considered if a representative sample is to be obtained. The point of freshwater inflow for the tidal Potomac River and Estuary is at Chain Bridge. The main channel at this cross section is a narrow canyon 49 m wide; this constriction insures thorough mixing. Because of high water velocity, samples were collected from the intake line of the water-quality monitor. The intake was 0.7 m below the low-water stage and about 2.5 m from the right bank. When the monitor was not operating, a mid-channel surface sample was obtained.

The Potomac river at Alexandria has two channels, and each is well mixed. However, the effluent from the Blue Plains Sewage Treatment Plant does not disperse to each channel equally. Therefore, separate depth-integrated samples were taken from each channel.

At Quantico, the boundary between tidal-river and transition zones, there is only one channel; samples for that cross section were collected from one vertical in this channel. For the periods when the dissolved-solid concentration was less than 2.0 0/00 (parts per thousand), and no stratification existed, depth-integrated samples were collected; for periods when the dissolved-solids concentration was greater than 2.0 0/00, separate top and bottom point samples were obtained. During special studies in July and August of 1980 and 1981, depth-integrated samples were also collected from two or three verticals and composited.

In the lower end of the transition zone, and in the estuarine zone of the tidal Potomac River, specific-conductance gradients exist in the water column. To obtain representative samples here, separate top and bottom samples were collected and analyzed separately. For the Potomac River at Morgantown, Md., samples were collected as point samples taken from the water column in the main channel. In the estuarine zone of the tidal Potomac River, at Piney Point, top and bottom point samples were collected from specific sampling verticals in the cross section.

Sampling at intervening stations

Samples at the intervening stations were collected in the same manner as those at the nearest major station.

Longitudinal sampling

In general, each month a 2-to 3-day longitudinal sampling cruise was conducted between Potomac River at Memorial Bridge, or the 14th Street Bridge, Washington, D.C., and the Chesapeake Bay. During the cruise, samples were collected at all five major stations, the Chesapeake Bay stations and at most of the intervening stations.

Sampling equipment

Equipment for estuarine water-quality sampling must be suited for unsteady and non-homogeneous flow conditions. The selection of samplers

for a particular station was based on the flow characteristics and the dissolved-solids concentration at that station and the type of boat used for sampling. The following paragraphs describe the samplers used.

The Van Dorn and Niskin samplers are open cylinders having spring-loaded stoppers at each end. These samplers are lowered, open, to the sampling depth. The stoppers are triggered, and the captured water is then brought into the boat and distributed into the sample containers. These are point samplers, which are designed for use in still waters and may be used in flowing water if the sampling vessel is drifting with the current. In its usual vertical configuration, the length of the cylinder causes the sample to be representative of an 0.8-m depth interval.

The bag sampler (Stevens and others, 1980) is a depth-integrating sampler for use in flowing water and requires that the sampling platform be stationary. This sampler consists of a metal frame into which an air evacuated plastic bag is inserted and connected to a nozzle. The depth limitation of this sampler is determined by the size of the nozzle and the velocity of the water. These determine the time needed to fill the bag, which must be less than the time required to traverse the water column. In cold water and at low velocities, the bag does not fill.

An open bottle with a vent tube was used to collect depth-integrated samples. This sampler consists of a weighted, capped 4-L bottle. The cap has an 8-mm-diameter hole in it, and the bottle has a hole in its shoulder. The hole in the shoulder is fitted with a 4-mm-diameter tube that extends about 150-mm above the bottle cap. This arrangement allows air to escape from the tube and water to flow smoothly into the bottle through the hole in the cap. This sampler may be used when water velocities do not exceed 0.3 m/s and may be used in faster flowing water if the sampling vessel is drifting with the current.

The pumping sampler is a point sampler that consists of an intake hose, a shipboard pump or submersible pump, and a discharge hose. The shipboard pump was a Teel compact marine-utility pump. The intake and discharge hose used with this pump was a 19-mm inside diameter garden hose. The submersible pump was a Gould 1/2-horsepower, 100-mm-diameter pump. The discharge hose used with this pump was a 25-mm-inside-diameter garden hose. The pumping rates for the shipboard pump and the submersible pump were respectively 17.7 liters per minute and 37.9 liters per minute. The discharge from the pump is routed first into a manifold, which contains sensors that measure dissolved oxygen, specific conductance, pH and temperature, and then through the discharge hose from which samples may be collected. This sampler can be used to sample flowing or still waters. Care must be taken to insure that the sampling hose is shaded from the sun and that hose connections are tight to prevent alteration of the sample as it is being collected. Samples for biochemical oxygen demand were always obtained from the depth integrated or point sample, never from the pumping system.

In-situ measurements

A Secchi disk was used to measure water transparency. In 1979, a Hydrolab Surveyer 6 and, in 1980 and 1981, a Hydrolab Digital 4041 water-

quality measurement system was used to measure dissolved oxygen, pH, temperature and specific conductance. The water-quality-measurement system was calibrated before and after use and was checked periodically against laboratory standards. The Hydrolab-system measurements were made at points at which water samples were collected and at several other intermediate points in the water column. In-situ measurements were also made at sites along the major station cross sections other than those from which water-quality samples were collected. A summary of the types and dates of samplers used is as follows:

Potomac River at Chain Bridge:	Monitor intake or open bottle with vent tube
Tidal river zone: (including Potomac River at Quantico)	Bag sampler September 1978 through July 1979. Open bottle with vent tube June 1979 through September 1981
Transition zone: (including Potomac River at Quantico)	For dissolved solids < 2.0 (0/00), open bottle with vent tube For dissolved solids > 2.0 (0/00), Niskin bottle
Estuarine zone:	Niskin bottle

METHOD OF SAMPLE ANALYSIS

Bacterial

Fecal coliform densities were determined by the membrane filter (MF) method using m-FC agar without rosolic acid as described in American Public Health Association and others (1975). A further discussion and comparison of this method is presented by Grabow and others (1981). This method is essentially identical to that presented by Greeson and others (1977).

Fecal-streptococcus densities were determined by the MF method using KF streptococcus agar, described in American Public Health Association and others (1975). This method is essentially identical to that presented by Greeson and others (1977).

Samples for bacterial analysis were aliquots of the depth-integrated composited samples collected for nutrient analysis. The 200-mL (milliliter) aliquots were placed in sterile whirl-pack bags and stored on ice in the dark until analysis. The samples were usually plated and incubated within six hours of collection. Each sample was plated at a minimum of two dilutions and each dilution was done in duplicate. The densities reported represent the mean of at least two plates.

Biochemical oxygen demand

The BOD values were determined by the U.S. Geological Survey, Reston, Va. The BOD samples were aliquots of samples that were sent to the Central Laboratory of the U.S. Geological Survey, Atlanta, Ga., for nutrient analysis.

These nutrient analyses are listed in the 1979, 1980, and 1981 Hydrologic Data Reports. In some cases, BOD samples were collected without a corresponding nutrient analyses.

The BOD values of oxygen-demand and specific-rate constants were determined on the bases of a time series of 8 to 15 polarographic dissolved-oxygen oxygen measurements on undiluted aerated samples that were incubated for about 20 days in the dark at 20 °C, or on rare occasions 24 °C. After collection, samples for BOD analyses were placed in 1-L plastic bottles which were chilled on ice and kept in the dark at 4 °C until analysis. For greater than 80 percent of the samples, the BOD analyses were begun within 24 hours of collection. Usually two subsamples were incubated. In one, nitrification was inhibited with ATU (1-Allyl-2-thiourea) or after May 1979 with nitrapyrin, TCMP (2 chloro-6) (Trichloromethyl) (1-Allyl-2-thiourea) pyridine. The other subsample was an unaltered whole-water sample. The sample DO concentration was adjusted to approximately 8 mg/L (milligrams per liter) at the start of the analysis. The samples were reaerated when the DO would be less than 2 mg/L at the next scheduled observation time.

A more detailed description of the method can be requested from PES group (W. E. Webb, U.S. Geological Survey, National Center, MS 430, Reston, VA 22092, written commun., January 1983).

BOD and rate constants listed in the following tabulation were measured during the project and are presented in this report.

<u>Name</u>	<u>WATSTORE parameter code</u>
Oxygen demand, immediate (mg/L)	00302
Oxygen demand, biochemical carbon, days lag time	82135
Deoxygenation carbon K_1 to base e per day at 20 °C (KC)	82133
Oxygen demand, biochemical ult. carbonaceous (mg/L) (UCBOD)	00320
Oxygen demand, biochemical Nitrog. days lag time (TN)	82136
Deoxygenation Nitrog. K_1 to base e per day at 20 °C (KN)	82132
Oxygen demand, biochemical Nitrog. ult. (mg/L) (UNBOD)	00321
Oxygen demand, biochemical uninhib ult. (mg/L) (UBOD)	00319
Deoxygenation constant to K_1 to base e per day (K_1)	00325

Values of BOD and specific-rate constants were calculated from a computer-generated non-linear least-squares fit program with the form $L = L_0 (1 - e^{-K_1 t})$ where L is the BOD at anytime T in days and the ultimate demand is L_0 and the rate is K_1 per day. BOD parameters for the inhibited sample were calculated first. Most of these samples had little or no initial demand, lag time, or evidence of nitrification. However, for about 20 percent of the samples, the calculation of BOD and K_1 was based on forcing the curve so that the initial demand and lag time were zero. In most of these instances, the least-squares fit of the ultimate carbon BOD and decay rate were used. The result is that some zero values of lag time and initial demand are questionable.

The program plotted the computed fit along with the data on a video display terminal. Quality of non-linear least-squares fit was judged by visual comparison of observations to the computed curve shown on the graphics terminal. If in the opinion of the analyst the fit was not reasonable, the analyst could refit the curve with selected DO observations omitted or enter a specific-rate constant to see how it matched the observed data.

Three conditions necessitated the editing of the DO data. First, when a delay occurred in the onset of the biochemical oxygen demand, the least-square fit was made to positive demand; the intercept ($T=0$) and carbon lag time were calculated. Second, when samples were inhibited with ATU, the data after 13 days were omitted because after this time ATU seemed unable to continue to inhibit nitrification. Third, one analyst obtained DO values that appeared to be about 0.5 mg/L too low on the final reading for some samples. For these analyses the final DO readings were ignored.

It is estimated that about 40 percent of the analyses had one DO observation omitted from consideration, and less than ten percent of the analyses had two or more observations omitted.

After BOD values were calculated for the nitrification-inhibited samples, the data for the untreated sample were analyzed by plotting the ultimate carbonaceous BOD curve for the specific-rate constant (KC) of the inhibited sample on the screen with the data from the untreated sample. If the observations for the carbonaceous BOD of the untreated sample were consistent with the calculated BOD curve for the inhibited sample, a second least-squares fit of the same form was determined for the nitrogenous BOD. For more than 95 percent of the sample pairs, data from the inhibited sample were used with the untreated sample. The program computed the nitrogenous deoxygenation rate constant (KN) and ultimate oxygen demand for the UNBOD (ultimate nitrogenous biochemical oxygen demand), based on the oxygen used in excess of the oxygen use computed for the carbonaceous BOD curve.

The following procedure was used when reporting values calculated from the BOD analyses. Initial oxygen demand and lag time for the onset of carbonaceous BOD was recorded. The specific-rate constant for carbonaceous BOD (KC) was recorded when an inhibited sample was analyzed. If there was no inhibited sample, KC was recorded if there was good evidence for both carbonaceous and nitrogenous BOD on the dissolved oxygen versus time plot. The value for KC was not adjusted for the temperature of incubation in those few cases when the sample was incubated at 24 °C. The UCBOD (ultimate carbonaceous biochemical oxygen demand) was recorded using the same procedure as for KC. Lag time TN for onset of UNBOD was recorded only when there was evidence for nitrogenous BOD. For some samples the inhibited and the uninhibited samples were almost identical in their oxygen use and rate suggesting no NH_3 (ammonia) and no value was recorded for TN. The KN was calculated only if there were three or more DO observations indicating a nitrogenous oxygen demand. KN was reported using the same procedure for the TN, except that when there was no evidence for nitrogenous oxygen demand, KN was recorded as zero. The UNBOD was recorded using the same procedure used for KN. The UBOD (ultimate uninhibited BOD) reported is the sum of the initial demand plus UNBOD plus the UCBOD or in instances where no inhibited sample was run, it is the

ultimate for the uninhibited sample. UBOD for all uninhibited samples was generally reported. The K_1 (specific-rate constant) for the uninhibited BOD was recorded only when there was no inhibited sample run and no evidence for nitrogenous BOD.

The accuracy of the DO concentrations are estimated to be within ± 0.1 mg/L. If a DO measurement was equal to or higher than the previous observation, it was repeated using a second instrument. Two or four YSI DO meters and self-stirring probes were used concurrently. These instruments were compared in air-saturated water after every four to six DO measurements and reset to saturation if the observations were more than 0.2 mg/L different between instruments, or if they had drifted more than 0.2 mg/L from DO saturation.

Replicate samples were analyzed to assess the reproducibility of the methodology. First, \bar{x} (mean) of the replicates was calculated. The means were plotted against the replicate values. These plots indicated no significant variation in scatter through the range of observations. Therefore, the σ (standard deviation) for all replicates could be used as an indicator of reproducibility for this methodology. The results are summarized below.

BOD-value parameter	Unit	Range	Number of observations	σ
KC	per day base e	0.04-.43	160	0.03
TN	day	4-14	123	1.23
UNBOD	mg/L	0-17	123	1.44

For UCBOD and KN there was a significant variation in the scatter through the range of observations. In these cases σ was calculated in two parts.

BOD value	Unit	Range	Number of observations	σ	
UBOD	mg/L	2-33	29	for $\bar{x} > 22$	2.00
			130	for $\bar{x} \leq 22$	.82
KN	per day base e	0.1-.08	88	for $\bar{x} < .45$	.10
			35	for $\bar{x} \geq .45$	.29

Chlorophyll-a

Chlorophyll-a and pheophytin analyses were based on the fluorometric acetone-extraction method. The collection and analysis procedure is described in detail in Blanchard and Coupe (1982, pp. 13-17).

Incident light

Incident light was measured using LI-COR, Inc., model LI 185B Quantum photometer with cosine-response sensor sensitive to light in wave lengths from 400 to 700 nanometers. The sensor, permanently mounted in a weighted cylindrical holder, was placed on an unshaded portion of the boat deck for incident light readings. The boat deck was between 0.5 and 1.5 m above the water surface.

The reproducibility of the incident-light measurements depended on the weather. On days when there were small mobile clouds, the incident light could easily change from 1,500 to 1,000 microeinsteins per m^2/s in less than one minute. When several photometers were used, the difference in any two readings was less than 10 percent of the average of the observed values.

Light attenuation

Depth to 1 percent and 50 percent of the incident light was measured using a calibrated rope to lower the sensor and holder over the sunny side of the boat to the depth at which the photometer read 1 percent or 50 percent of the incident light.

Reproducibility of the depth to 50 percent light was less than 0.5 ft based on the authors' field experience. However, the depth to 50 percent light was usually between 0.5 and 0.8 ft. Thus, the relative error in the depth measurement is large. Reproducibility of the depth to 1 percent light was about 0.5 ft. Because the depth to 1 percent light was about 4 to 6 ft, the relative error in this depth measurement was about 10 percent when the incident light was not changing rapidly.

The light data was collected at verticals and was recorded at the time assigned to the shallowest field-measurement values. Magnitudes for the arithmetic average, of incident light, depth to 1 percent of incident light, and secchi depth presented in this report were recorded at the time assigned to the depth integrated composited sample.

AIDS FOR USING THE DATA

Time

Eastern Standard Time applies during the periods from October 29, 1978 at 0200 hours, through April 29, 1979, at 0200 hours, from October 28, 1979 at 0200 hours, through April 27, 1980 at 0200 hours, and from October 26, 1980, at 0200 hours through April 26, 1981, at 0200 hours. For all other periods during these water years, times are Eastern Daylight Savings Time.

Sampling depth

The sampling depths were measured by markings on a cable or from a dial on a calibrated reel-cable system. Sampling depths are reported to the nearest 0.1 ft and Secchi disk depth to the nearest in. Samples that appear in the data tables without depths are depth-integrated samples,

except those from Chain Bridge, where samples are always from the surface or from the fixed intake line of the water-quality monitor.

pH

All of the pH values that appear in this report are about 0.5 units low due to a defect in the pH-electrode measuring system in the field equipment. It is the authors' opinion that, after adding 0.5 to the pH values, the field observations are precise within ± 0.2 pH unit.

Sample location

Transverse locations of sampling are measured from left bank looking downstream. Composite samples are indicated with a fictitious distance from left bank; for example, 30,000, 40,000, or 50,000 feet.

Dissolved oxygen

Dissolved oxygen concentrations are corrected for salinity by tables for oxygen saturation of seawater developed by Green and Carritt (1967).

Missing data

Missing data in the data tables is shown by a dashed line.

Blue Plains Sewage Treatment Plant

During 1979, the data from this station represents composite samples of the secondary chlorinated effluent. During 1980, the data from this station represents samples of the chlorinated effluent of the sewage treatment plant. The effluent is discharged into the river through two outfalls. The first outfall is primary treated effluent and appears in the data tables with a time of 0001. The second outfall is secondary treated effluent and appears in the data tables with a time of 0002. All samples are 24 hour composite samples unless they appear with a time of day; these samples are instantaneous grab samples from the secondary treated outfall.

In 1981, the data from this station represent samples of the chlorinated effluent. The first outfall (001) discharges primary effluent and is listed under station ID number 384852077014001; the second outfall (002) discharges secondary effluent and is listed under station ID number 384852077014002. All samples are 24-hour composites unless they appear with a time of day; these samples are grab samples from outfall 002.

Parameter codes

Each column heading in Appendix A and Appendix B has a corresponding number used in the U.S. Geological Survey National Water Data Storage and Retrieval System (WATSTORE) to reference parameters related to water quality (Hutchison, 1975).

Remarks

The value for each water-quality parameter may be qualified by a remark. The remark and the corresponding symbol that may be printed in the data tables are listed below.

<u>Symbol</u>	<u>Remark</u>
<	Actual value is known to be less than the value shown, except when used in connection with phytoplankton counts. Then it represents a count done by Kim Boulukos.
>	Actual value is known to be greater than the value shown, except when used in connection with phytoplankton counts. Then it represents a count done by Wapora, Inc.

Computation of cross-sectional average concentrations

Area-weighted cross-sectionally averaged values for dissolved oxygen, pH, specific conductance, temperature, and chlorophyll-a corrected for pheophytin were computed for use in data analysis with the nutrient and other constituent concentrations from depth-integrated composited water samples. Values were only computed for stations upstream of Quantico, the reach primarily sampled using the depth-integrating compositing procedure. To compute the area-weighted pH value, pH values were converted to hydrogen-ion concentration. The depth-integrated composited sample time was assigned to the average values. The average dissolved-oxygen values correspond to parameter code 90300, the pH values to parameter code 90400, the specific-conductance values to parameter code 90094, and the temperature values to parameter code 90010. The averaged chlorophyll values were computed when no depth-integrated composited sample was analyzed for chlorophyll. The average values for chlorophyll-a corrected correspond to parameter code 92209, for pheophytin to parameter code 92213, and for chlorophyll-a uncorrected to parameter code 92217. Cross-sectionally averaged values were compared to values measured in the depth-integrated composited samples using regression analysis. For example, conductivity was measured at the U.S. Geological Survey's Atlanta Central Laboratory and reported as specific conductance, parameter code 90095. For 339 samples over a range of specific conductance from 141 to about 2,000 micromhos, the r^2 (correlation coefficient) was greater than 0.90 for each of the tidal-river stations. The slope of the relation between the average computed and the laboratory observed values was $1.0 \pm .1$ for each of the 10 tidal-river stations.

A similar comparison was made for chlorophyll-a corrected. For 369 samples over a range of chlorophyll-a from 2 to 90 micrograms per liter, r^2 was greater than 0.86 for each of the 10 tidal-river stations. The slope

of the relation between the observed chlorophyll-a and the cross-sectionally averaged value was 0.95 ± 0.1 for the 10 stations.

Arithmetic averages of observed Secchi depth, light to one percent and incident light, were calculated for times when depth-integrated composited samples were collected at stations upstream of Quantico. They are listed with the depth-integrated sample time in Appendix B.

Phytoplankton

Phytoplankton enumeration and identification procedures can be obtained from the PES group (R. R. H. Cohen, U.S. Geological Survey, National Center MS 430, Reston, VA 22092, written commun., January 1983). Phytoplankton counts are marked in this report and the WATSTORE file to identify the analyst. There were predictable differences in counts of duplicates between analysts. Counts with no sign were done by VAS (V.A. Stoelzel); those done by KEB (K.E. Boulukos) are marked with a less-than sign (<); those done by WAP (WAPORA, Inc.) with a greater-than sign (>).

For samples collected at Quantico and upstream, where the water was usually fresh, the equations of the linear least-squares fit of all duplicate counts are:

$$\begin{aligned} \text{VAS} &= 3100 + 0.57 \text{ KEB} & r^2 &= 0.46 & N &= 40 \\ \text{VAS} &= 15000 + 0.85 \text{ WAP} & r^2 &= 0.35 & N &= 38 \end{aligned}$$

For samples downstream from Quantico the equations are:

$$\begin{aligned} \text{VAS} &= 2600 + 0.61 \text{ KEB} & r^2 &= 0.41 & N &= 13 \\ \text{VAS} &= 3700 + 1.7 \text{ WAP} & r^2 &= 0.77 & N &= 11 \end{aligned}$$

The general procedure used was inverted microscopic examination of eight grids of a 5 mL subsample of lugol-preserved 250 mL field sample (Utermohl, 1958).

VAS counts have a precision of approximately 6,000 cells/mL regardless of the cell concentration. This precision is the arithmetic mean of the difference of inadvertent duplicate analyses of 23 freshwater samples. Regression analysis between inadvertent duplicate counts and total cells/mL showed no relationship ($r^2 = 0.09$, $N = 23$). Inadvertent duplicates were used to examine counting precision because they were similar to blind samples and included the problem of cell degradation with time. For samples collected at Quantico and upstream, the equation of the linear least squares fit of VAS duplicate counts is:

$$\text{VAS (second count)} = 0.966 \text{ VAS (first count)} - 790 \text{ where } r^2 = 0.73 \text{ } N = 37$$

For samples collected downstream from Quantico from water that was usually brackish or saline, the equation is:

$$\text{VAS (second count)} = 0.867 \text{ VAS (first count)} - 4,300 \text{ where } r^2 = 0.73 \text{ } N = 56$$

Most samples were counted from one to six months after collection. Most of the duplicates were analyzed several months apart. There was an average degradation of 350 cells/mL/month; however, 30 percent of the duplicates were analyzed to have more cells in the second analysis. The precision of the WAP and KEB counts is probably similar in percent to the VAS counts.

Tidal-river volumes

Volumes that could be used to compute the mass of a constituent in the tidal river are listed in tables 1 and 2. The information in these tables is calculated from volume data presented by Cronin (1971).

To approximate the volume of the river, the inter-tidal volume was halved for each nmi and added to the mean low-water volume for that nmi. The boundary between the tidal river and its tributaries used, is that found in Cronin (1971).

Sewage-treatment-plant loads

The STP (sewage-treatment-plant) loads reported in Appendix C are in metric tons per month. Flow is reported as the monthly average in m^3/s . Blue Plains STP loads are the sum of outfalls 001 and 002 discharges.

Reach 1 sewage-treatment-plant load is the load from the 22 Mgal/d Arlington STP. A reasonable location to apply this load is at KM174 (km 174) near Giesboro Point (the actual discharge is into Four Mile Run).

Reach 2 sewage-treatment-plants load is the sum of the effluent loads from the 29 Mgal/d Alexandria STP which discharges into Cameron Run, the 4 Mgal/d Little Hunting Creek STP, the 14 Mgal/d Piscataway Creek STP which discharges into Piscataway Creek and the 6 Mgal/d Westgate STP which operated through water year 1980. A location to apply this load is at KM165; this location is near the centroid of the effluent flow.

Reach 3 sewage-treatment-plants load is the sum of the effluent loads from the 22 Mgal/d lower Potomac STP that discharges into the head of Gunston Cove, the 7 Mgal/d Mooney STP that began operation in 1981 water year and discharges into Occoquan Bay and the 3 Mgal/d Dogue Creek STP that operated till August 1980. A location to apply this load is at KM144.

The reaches and Blue Plains monthly loads are computed as the sum of the loads from the individual STP as reported on their National Pollution Discharge Elimination System Reports. When a constituent concentration was missing, load-weighted, monthly average concentration for that calendar year was multiplied times that month's flow and reported as the month's load. When a monthly concentration and flow was missing, the monthly load reported was the average of the reported monthly loads for that calendar year. TP (total phosphorus) loads were available for most plants and times, and dissolved-phosphorus loads were computed as 55 percent of the TP load for that month, except for Reach 1, where 90 percent was used. This division of loads was based on analyses by the Virginia State Water Control Board and the U.S. Geological Survey.

Table 1.--Volumes and surface areas for selected reaches of tidal Potomac River and tributaries

Mid-reach name	Location of reach in km (nmi) from mouth of Potomac River	Average depth in m	Mean low-water surface area 10 ⁶ m ²	Mean low water + 1/2 inter-tidal volume 10 ⁶ m ³	Accumulated volume 10 ⁶ m ³	Accumulated surface area 10 ⁶ m ²
	From To					
Memorial Bridge	181.6 (98) 176.0 (95)	3.0	3.08	9.1	9.1	3.1
Giesboro Point	176.0 (95) 172.3 (93)	4.6	7.18	33.1	42.2	10.3
Marbury Point	172.3 (93) 169.6 (91.5)	2.9	3.76	11.1	53.3	14.1
Alexandria	169.6 (91.5) 166.8 (90)	2.2	3.98	8.8*	62.1	18.1
Rosier Bluff	166.8 (90) 163.1 (88)	2.8	7.74	21.3	83.4	25.8
Hatton Point	163.1 (88) 155.7 (84)	3.6	10.33	37.0	120.4	36.1
Marshall Hall	155.7 (84) 148.3 (80)	2.8	18.94	53.5	173.9	55.0
Hallowing Point	148.3 (80) 140.8 (76)	5.2	12.89	67.0	240.9	67.9
Indian Head	140.8 (76) 132.6 (71)	3.5	48.13	167.4	408.3	116.0
Quantico	132.6 (71) 124.2 (67)	3.4	49.18	168.8	577.1	165.2

* 1.9 for Maryland channel
6.9 for Virginia channel

Table 2.--Volumes and surface areas for selected reaches of tidal Potomac River with tributaries excluded

Mid-reach name	Location of reach in km (nmi) from mouth of Potomac River	Average depth in m	Mean low-water surface area 10 ⁶ m ²	Mean low water + 1/2 inter-tidal volume 10 ⁶ m ³	Accumulated volume 10 ⁶ m ³	Accumulated surface area 10 ⁶ m ²
	From To					
Memorial Bridge	181.6 (98) 176.0 (95)	3.0	3.1	9.1	9.1	3.1
Giesboro Point	176.0 (95) 172.3 (93)	4.4	2.6	11.3	20.4	5.7
Marbury Point	172.3 (93) 169.6 (91.5)	2.9	3.8	11.1	31.5	9.5
Alexandria	169.6 (91.5) 166.8 (90)	2.2	3.3	7.2*	38.7	12.8
Rosier Bluff	166.8 (90) 163.1 (88)	3.3	5.5	18.3	57.0	18.3
Hatton Point	163.1 (88) 155.7 (84)	3.9	8.8	34.8	91.8	27.1
Marshall Hall	155.7 (84) 148.3 (80)	2.8	15.9	45.3	137.1	43.0
Hallowing Point	148.3 (80) 140.8 (76)	5.6	11.7	65.1	202.2	54.7
Indian Head	140.8 (76) 132.6 (71)	4.9	25.9	126.6	328.8	80.6
Quantico	132.6 (71) 124.2 (67)	5.7	23.1	132.4	461.2	103.7

* 1.5 for Maryland channel
5.7 for Virginia channel

The PEM (Potomac Eutrophication Model) report prepared for Metropolitan Washington Council of Governments (Thomann and Fitzpatrick, 1982) gives the concentration of total phosphorus as: 65 percent dissolved inorganic phosphorus, 32 percent particulate organic phosphorus and 3 percent as dissolved organic phosphorus.

Suspended-solids loads were available for most plants and times.

Total KJD (Kjeldhal, nitrogen ammonia + organic), NH_3 , $\text{NO}_2 + \text{NO}_3$ (as N) concentrations were reported by Blue Plains STP. For the reaches, flow-weighted concentrations of nitrogen species were computed for each reach for the 1979, 1980, and the 1981 water years. The concentrations for the reaches were based on analyses by the Virginia State Water Control Board and the U.S. Geological Survey and reports from some plants. The reach and concentrations values are shown in Appendix C. These values are reasonably consistent with information presented in the PEM documentation draft. Loads for dissolved KJD were not computed because the available data and reports from other agencies showed no consistent pattern among the concentrations of total KJD, dissolved KJD and NH_3 .

Dissolved and total NH_3 could not be distinguished in river samples using the U.S. Geological Survey's Central Laboratory results or measurements done in Reston using a selective-ion electrode. Therefore, all NH_3 values are reported as dissolved.

The silica loads were calculated from concentrations in effluent samples collected by the U.S. Geological Survey during summer low flow, and they may be higher than concentrations typical of winter conditions when the Potomac River near Little Falls frequently has lower silica concentrations.

Sampling bias

There is a minor sampling bias in the depth-integrated composited samples collected during the summer low flow (July and August, 1980 and 1981). The volume of water sampled had proportionally more water from depths greater than 15 feet and less from depths above 5 feet than was determined for the river cross-sections sampled. For parameters with vertical gradients, the sampling bias may have caused an unrepresentative sample to be collected. The percent volumes of each 5-foot depth interval in the river and in the sample are shown in table 3 for each station.

Examination of the horizontal variation in concentrations shows that there could be equal or greater random horizontal-concentration effect on the sample concentration than that caused by the sample bias due to the depth sampling problem.

Table 3.--Sampling bias

Depth interval (ft)	Memorial Bridge		Giesboro Point		Marbury Point		Alexandria Md. channel		Alexandria Va. channel		Rosier Bluff		Hatton Point		Marshall Hall		Hallowing Point		Indian Head		Quantico		
	R*	S**	R	S	R	S	R	S	R	S	R	S	R	S	R	S	R	S	R	S	R	S	
0-5	29	26	45	22	36	21	61	53	25	18	45	33	25	15	31	28	31	22	32	25	22	20	
5-10	21	26	20	22	21	21	27	29	18	18	24	21	13	11	24	28	22	20	27	24	21	20	
10-15	19	26	10	12	17	21	12	18	17	18	10	11	12	11	24	24	16	16	12	14	20	20	
15-20	18	21	8	11	15	21	--	--	16	18	9	11	12	11	17	14	12	16	10	13	20	19	
20-25	10	1	8	11	11	16	--	--	14	18	7	11	10	11	4	6	9	16	8	12	14	14	
25-30	3	--	6	11	--	--	--	--	10	10	5	11	9	11	--	--	8	8	6	10	4	6	
30-35	--	--	3	11	--	--	--	--	--	--	--	--	7	11	--	--	2	2	4	2	--	--	
35-40	--	--	--	--	--	--	--	--	--	--	--	--	7	10	--	--	--	--	1	--	--	--	
40-45	--	--	--	--	--	--	--	--	--	--	--	--	3	9	--	--	--	--	--	--	--	--	
<u>Number of ver- ticals sampled</u>	12		2		2		2		2		3		3		3		4		4		4		2
<u>Total river width</u>	2,200		3,000		2,700		2,000		2,200		5,000		3,400		4,500		6,000		7,600		7,200		7,200

* R = Proportion of river volume, in percent, at cross section contained in indicated depth intervals

** S = Proportion of sample volume, in percent, at cross section contained in indicated depth intervals

REFERENCES

- American Public Health Association, American Water Works Association, Water Pollution Control Federation, 1975, Standard methods for the examination of water and wastewater: Am. Public Health Assoc., 14th edition, 1193 p.
- Blanchard, S. F., and Hahl, D. C., 1981, Water quality of the Tidal Potomac River and Estuary, Hydrologic data report, 1979 water year: U.S. Geol. Survey Open-file Rept. 81-1074, 149 p.
- Blanchard, S. F. and Coupe, R. H., Jr., 1982, Water quality of the tidal Potomac River and Estuary, Hydrologic Data Report, 1981 Water Year: U.S. Geol. Survey Open-file Report 82-575, 298 p.
- Blanchard, S. F., Coupe, R. H., Jr., and Woodward, J. C., 1982, Water quality of the Tidal Potomac River and Estuary, Hydrologic data report, 1980 water year: U.S. Geol. Survey Open-file Report 82-152, 349 p.
- Cronin, W. B., 1971, Volumetric, areal, and tidal statistics of the Chesapeake Bay estuary and its tributaries: Chesapeake Bay Institute, Special Report 20.
- Glenn, J. L., 1978, Temporal and spatial variations in nutrient and sediment concentrations in the Potomac Estuary; U.S. Geol. Survey Open-File Rept. 79-1588, p. 12-13.
- Grabow, W. K., Hiener, C. A., and Coubrough, P., 1981, Evaluation of standard and modified M-FC, MacConkey, and Teepol meeline for membrane filtration counting of fecal coliforms in water: Appl. Environ. Microbiol., V. 42, p. 193-199.
- Green, E. J., and Carritt, D. E., 1967, New tables for oxygen saturation of seawater: Journal of Marine Research, 140 p.
- Greeson, P. E. and others, editors, 1977, Methods for collection and analysis of aquatic biological and microbiological samples: U.S. Geol. Survey Techniques of Water-Resources Investigations, Book 5, Chapter 4, 1977, p. 73-77.
- Greeson, P. E. (ed), 1979, A supplement to--Methods for collection and analysis of aquatic biological and microbiological samples (U.S. Geological Survey Techniques of Water-Resources Investigations, Book 5, chapter A4): U.S. Geol. Survey Open-file Rept. 79-1279.
- Hutchison, N. E., compiler, 1975, Watstore--National Water Data Storage and Retrieval System of the U.S. Geological Survey -- user's guide: U.S. Geol. Survey Open-file Rept. 75-426, V. 3, Chapt. 4-A, p. 1-105.
- National Ocean Survey, 1977a, Tidal current tables 1978, Atlantic Coast of North America: National Ocean Survey, pp. 62-63, 154, 155.

- _____, 1977b, Tide tables 1978, High and low water predicitions, East Coast of North and South America: National Ocean Survey, pp. 84-86, 223, 224.
- _____, 1978a, Tidal current tables 1979: National Ocean Survey, Atlantic Coast of North America, pp. 62-63, 154, 155.
- _____, 1978b, Tide tables 1979, High and low water predictions, East Coast of North and South America: pp. 62-63, 223, 224.
- _____, 1979a, Tidal current tables 1980, Atlantic Coast of North America: National Ocean Survey, p. 64-68, 165, 166.
- _____, 1979b, Tide tables 1980, High and low water predictions, East Coast of North and South America: National Ocean Survey, p. 84-86, 223, 224.
- _____, 1980a, Tidal current tables 1981: National Ocean Survey, Atlantic Coast of North America, p. 64-68, 168.
- _____, 1980b, Tide tables 1981, High and low water predictions, East Coast of North and South America, p. 84-86, 219, 220.
- Smith, R. E. and Herndon, R. E., 1979, Physical and chemical properties of Potomac River and environs, August-September, 1977: U.S. Geol. Survey, Open-file Rept. 79-1635, 77 p.
- _____, 1980a, Physical and chemical properties of the Potomac River and environs, January 1978: U.S. Geol. Survey Open-file Rept. 80-742, 35 p.
- _____, 1980b, Physical and chemical properties of Potomac River and environs, April-May 1978: U.S. Geol. Survey Open-file Rept. 80-745, 57 p.
- _____, 1980c, Physical and chemical properties of Potomac River and environs, August 1978: U.S. Geol. Survey Open-file Rept. 80-746, 27 p.
- Stevens, H. H., Jr., Gale, A., and Hubbell, D. W., 1980, Collapsible-bag suspended-sediment sampler: Jour. of Hydraulics Div. Am. Soc. of Civil Engineers Proc., V. 106, No. HY4, April 190, pp. 611-616.
- Thomann, R. V., and Fitzpatrick, J. J., 1982, Calibration and Verification of a Mathematical model of Eutrophication of the Potomac Estuary: Dept. of Environmental Services, Government of the District of Columbia, p. 72.
- U.S. Geological Survey, 1980, Water resources data for Maryland and Delaware, water year 1979: U.S. Geol. Survey Open-file Rept. MD-DE-79-1, 398 p.
- _____, 1981, Water Resources Data for Maryland and Delaware, water year 1980: U.S. Geol. Survey Open-file Rept. MD-DE-80-1, 431 p.
- _____, 1982, Water Resources Data for Maryland and Delaware, Water Year 1981: U.S. Geol. Survey Open-file Rept. MD-DE-81-1, 503 p.
- Utermohl, H., 1958, Zur vervollkommnung der quantitativen Phytoplankton-Methodik: Mitt. int. vver. theor. angew. Limnol. V. 9, pp. 1-38.

APPENDIX A - Biochemical oxygen demand and light data.

APPENDIX A

01646580 - POTOMAC R AT CHAIN BRIDGE AT WASH, DC
 WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SAMPLE LOCATION CROSS SECTION (FT FMI) L BANK (00009)	TRANSPAR- ENCY (SECCHI DISK) (TV) (00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET) (00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET) (00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET) (00199)	LIGHT INTENS. (U-EINS /SQM/S) (00200)	OXYGEN DEMAND, BIOCHEM. CARBON. LAGTIME: AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
OCT										
02...	1341	---	1240	---	---	---	---	---	.00	.0
04...	1423	---	1240	---	---	---	---	---	.00	.0
10...	1122	---	1240	---	---	---	---	---	.00	.0
13...	0924	---	1240	---	---	---	---	---	.00	.0
18...	1259	---	1240	---	---	---	---	---	.00	.0
24...	0952	---	1240	---	---	---	---	---	.00	.0
26...	1008	---	1240	---	---	---	---	---	.00	.0
31...	1013	---	1240	---	---	---	---	---	.00	.0
NOV										
02...	1006	---	1240	---	---	---	---	---	.00	.0
07...	1105	---	1240	---	---	---	---	---	.00	.0
09...	0959	---	1240	---	---	---	---	---	.00	.0
14...	0937	---	1240	---	---	---	---	---	.00	.0
16...	1304	---	1240	---	---	---	---	---	.00	.0
20...	0836	---	1240	---	---	---	---	---	.00	.0
22...	1340	---	1240	---	---	---	---	---	.00	.0
27...	1240	---	1240	---	---	---	---	---	.00	.0
DEC										
05...	1052	---	1240	---	---	---	---	---	.00	.0
07...	1130	---	1240	---	---	---	---	---	.00	.0
11...	1225	---	1240	---	---	---	---	---	.00	.0
13...	1025	---	1240	---	---	---	---	---	.00	.0
18...	1215	---	1240	---	---	---	---	---	.00	.0
20...	1245	---	1240	---	---	---	---	---	.00	.0
26...	1315	---	1240	---	---	---	---	---	.00	.0
27...	1315	---	1240	---	---	---	---	---	.00	.0
JAN										
02...	1148	---	1240	---	---	---	---	---	.00	.0
05...	1244	---	1240	---	---	---	---	---	.00	.0
08...	1310	---	1240	---	---	---	---	---	.00	.0
10...	1055	---	1240	---	---	---	---	---	.00	.0
15...	1050	---	1240	---	---	---	---	---	.00	.0
18...	1025	---	1240	---	---	---	---	---	.00	.0
22...	0850	---	1240	---	---	---	---	---	.00	.0
22...	1630	---	1240	---	---	---	---	---	.00	.0
23...	0750	---	1240	---	---	---	---	---	.00	.0
23...	1200	---	1240	---	---	---	---	---	.00	.0
23...	1600	---	1240	---	---	---	---	---	.00	.0
24...	0730	---	1240	---	---	---	---	---	.00	.0
24...	1810	---	1240	---	---	---	---	---	.00	.0
24...	2240	---	1240	---	---	---	---	---	.00	.0
26...	1400	---	1240	---	---	---	---	---	.00	.0

01546580 - POTOMAC R AT CHAIN BRIDGE, AT WASH, DC --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON-- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. LAGTIME AT 20C. (82135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY-- GENA-- TION CON-- STANT KI TO BASE E (00325)	COLI-- FORM, FECAL, 0.45 UM--MF (COLS./ 100 ML) (31616)	STREP-- TOCJCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO-- PLANK-- TON, TOTAL (CELLS PER ML) (60050)
OCT 02...	.11	4.3	9.4	.13	1.8	6.2	--	--	--	--
04...	.09	5.0	7.0	.26	1.0	6.0	--	--	--	--
10...	.09	3.9	10.5	.11	1.8	5.5	--	--	--	--
13...	.09	4.0	11.5	.14	1.6	5.7	--	--	--	--
18...	.06	5.4	---	.00	.00	5.4	--	--	--	--
24...	.17	5.0	10.2	.07	1.3	6.3	--	--	--	--
26...	.12	4.5	---	.00	.00	4.5	--	--	--	--
31...	.16	5.9	---	.00	.00	5.8	--	--	--	--
NOV 02...	.14	6.4	9.9	.39	1.7	8.0	--	--	--	--
07...	.16	6.0	5.5	.10	2.9	8.9	--	--	--	--
09...	.15	5.1	11.9	.39	1.2	6.3	--	--	--	--
14...	.11	4.3	11.1	.28	1.2	5.5	--	--	--	--
16...	.10	4.9	14.2	.39	1.2	6.1	--	--	--	--
20...	.08	4.7	---	.00	.00	4.7	--	--	--	--
22...	.11	2.9	---	.00	.00	2.8	--	--	--	--
27...	.11	6.0	---	.00	.00	6.0	--	--	--	--
DEC 05...	.08	4.5	---	.00	.00	4.6	--	--	--	--
07...	.08	3.9	---	.00	.00	3.9	--	--	--	--
11...	.09	11	---	.00	.00	11	--	--	--	--
13...	.07	4.9	.97	.48	.58	5.5	--	--	--	--
18...	.14	2.4	---	.00	.00	2.4	--	--	--	--
20...	.06	3.5	---	.00	.00	3.6	--	--	--	--
26...	.08	11	---	.00	.00	11	--	--	--	--
27...	.14	3.9	1.4	.11	1.9	5.7	--	--	--	--
JAN 02...	.10	2.9	2.2	.11	1.5	4.3	--	--	--	--
05...	.07	5.5	---	.00	.00	5.6	--	--	--	--
08...	.16	2.3	5.9	.43	.50	2.9	--	--	--	--
10...	.15	2.7	7.9	.25	1.3	4.0	--	--	--	--
15...	.15	1.9	11.1	.24	1.4	3.3	--	--	--	--
18...	.12	1.5	10.9	.48	.59	2.2	--	--	--	--
22...	.15	8.7	4.9	.03	3.8	13	--	--	--	--
22...	.19	7.9	3.0	.06	5.3	13	--	--	--	--
23...	.18	7.0	3.1	.08	4.7	12	--	--	--	--
23...	.12	9.2	8.2	.10	2.5	12	--	--	--	--
23...	.10	11	---	.00	.00	11	--	--	--	--
24...	.13	7.9	3.0	.10	2.1	10	--	--	--	--
24...	.18	6.2	.00	.04	8.1	14	--	--	--	--
24...	.12	4.3	.00	.11	8.5	13	--	--	--	--
26...	.07	14	---	.00	.00	14	--	--	--	--

APPENDIX A

011646590 - POTOMAC R AT CHAIN BRIDGE, AT WASH, DC --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAM- PLING DEPTH (FEET)	SECTION (FT FMI)	CROSS SECTION	LOC- ATION,	SAMPLE LOC-	TRANS- PAR- ENCY (SECHI DISK)	LIGHT DEPTH TO 1%	OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 10%	OF SURFACE LIGHT (FEET)	(00198)	LIGHT DEPTH TO 50%	OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/5)	(00200)	OXYGEN DEMAND, IMME- DIATE (MG/L)	(00302)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)	
JAN																						
	27...	1330			1240																	.00
	29...	1230			1240																	.00
	31...	0845			1240																	.00
FER																						
	13...	1320			1350																	.00
	15...	1030			1350																	.00
	27...	0825			1240																	.00
	27...	2000			1130																	.00
MAR																						.00
	01...	1130			1240																	.00
APR																						.00
	25...	0900			1350																	.00
MAY																						.00
	03...	1445			1350																	.00
	08...	1210			1350																	.00
	17...	1030			1350																	.00
JUN																						.00
	07...	1210			1350																	.00
	26...	1145			1350																	.00
JUL																						.00
	11...	1200			1350																	.00
	18...	1100			1350																	.00
	25...	1100			1350																	.00
AUG																						.00
	08...	0950			1350																	.00
	08...	1230			1350																	.00
	08...	1510			1350																	.00
	20...	0550			1350																	.00
	22...	0630			1350																	1.6
	28...	1210			1350																	.00
SEP																						.00
	12...	2210			1350																	.00

APPENDIX A

01646590 -- POTOMAC R. AT CHAIN BRIDGE, AT WASH, DC --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	DEOXYGE NATION CARBON BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM JLT. CARBON-- ACEDIUS (46/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS. DAYS LAGTIME AT 20C (92135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, UM--MF (COLS./ 100 ML) (31616)	STREP- TOCCOCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK-- TON, TOTAL (CELLS PER ML) (50050)
JAN										
27...	.13	6.0	14.7	--	1.6	7.5	--	--	--	--
29...	.14	2.8	1.2	.15	1.5	4.5	--	--	--	--
31...	.15	2.3	12.5	--	.64	2.9	--	--	--	--
FEB										
13...	.01	4.5	9.8	.33	.74	5.4	--	--	--	--
15...	.05	2.7	9.5	.39	.49	3.2	--	--	--	--
27...	.18	7.3	3.9	.07	4.5	12	--	--	--	--
27...	.14	5.9	7.2	.12	2.0	7.9	--	--	--	--
MAR										
01...	.09	3.5	.00	.07	2.0	5.6	--	--	--	--
APR										
25...	.12	3.2	.00	.05	2.9	6.0	--	--	--	--
MAY										
03...	.13	--	--	--	--	--	--	--	--	--
08...	.12	1.1	4.0	.16	1.5	2.7	--	--	--	--
17...	.23	2.8	5.9	.08	2.6	5.4	--	--	--	--
JUN										
07...	.10	2.7	10.8	.17	3.1	5.7	--	--	--	--
26...	.20	3.2	9.0	.19	1.6	4.7	--	--	--	--
JUL										
11...	.21	3.2	9.9	.10	3.1	6.4	--	--	--	--
18...	.13	7.8	9.5	.08	3.4	11	--	--	--	--
25...	.14	5.4	5.8	.10	3.0	8.5	--	--	--	--
AUG										
08...	.16	3.5	7.1	.15	2.5	6.1	--	--	--	--
08...	.17	4.5	9.5	.16	3.1	7.6	--	--	--	--
08...	.12	4.7	11.8	.08	1.5	6.2	--	--	--	--
20...	.23	4.7	14.7	.49	3.5	8.2	--	--	--	<70000
22...	.13	3.8	9.5	.20	2.4	6.2	--	--	--	<41000
28...	.22	3.7	9.5	.10	3.2	6.9	--	--	--	--
SEP										
12...	.06	2.5	11.9	.29	.51	3.0	--	--	--	--

APPENDIX A
 01646580 - POTOMAC R AT CHAIN BRIDGE, AT WASH, DC --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SAMPLE LOCATION (00009)	TRANS-PAR-ENCY (SECCHI DISK) (IV) (00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET) (00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET) (00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET) (00199)	LIGHT INCID. 400-700NM INTEVS. (U-EINS /SQM/S) (00200)	OXYGEN DEMAND, IMMEDIATE (MG/L) (00302)	OXYGEN DEMAND, CARBON, DAYS LAGTIME AT 20C (82135)
OCT										
	22...	---	1350	--	--	--	--	--	.0	.00
	25...	---	1350	--	--	--	--	--	.0	.00
	30...	---	1240	--	--	--	--	--	-2.4	1.0
NOV										
	05...	---	1350	--	--	--	--	--	.0	.00
FER										
	04...	---	1350	--	--	--	--	--	.0	.00
	11...	---	1350	--	--	--	--	--	-2.1	1.0
MAR										
	24...	---	1240	--	--	--	--	--	.0	.00
	0930	---	1350	--	--	--	--	--	.0	.00
	1300	---	1240	--	--	--	--	--	.0	.00
	1000	---	1240	--	--	--	--	--	.0	.00
APR										
	0645	---	1240	--	--	--	--	--	.0	.00
	0910	---	1240	--	--	--	--	--	.0	.00
	1630	---	1240	--	--	--	--	--	.0	.00
	2020	---	1240	--	--	--	--	--	.0	.00
	0930	---	1240	--	--	--	--	--	.0	.00
	1615	---	1240	--	--	--	--	--	.0	.00
	0715	---	1240	--	--	--	--	--	.0	.00
	0900	---	1240	--	--	--	--	--	.0	.00
MAY										
	0933	---	1240	--	--	--	--	--	.0	.00
	1230	---	1240	--	--	--	--	--	.0	.00
	15...	---	1240	--	--	--	--	--	.0	.00
	0910	---	1240	--	--	--	--	--	.0	.00
	1920	---	1240	--	--	--	--	--	.0	.00
	1110	---	1240	--	--	--	--	--	.0	.00
JUN										
	2000	---	1350	--	--	--	--	--	.0	.00
	1210	---	1350	--	--	--	--	--	.0	.00
	09...	---	1350	--	--	--	--	--	.0	.00
	1430	---	1350	--	--	--	--	--	-2.6	1.3
	1430	---	1240	--	--	--	--	--	.0	.00
	1540	---	1350	--	--	--	--	--	-1.2	2.5
	1000	---	1350	--	--	--	--	--	.0	.00
	1240	---	1350	--	--	--	--	--	-2.9	2.0
JUL										
	1310	---	1350	--	--	--	--	--	.0	.00
	1040	---	1350	--	--	--	--	--	.0	.00
	11...	---	1350	--	--	--	--	--	.0	.00

01646580 - POTOMAC R AT CHAIN BRIDGE, AT WASH, DC --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON-- ACEDUS (MS/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
OCT										
22...	.04	5.0	--	.00	.00	5.0	--	--	--	--
25...	.05	3.7	--	.00	.00	3.7	--	--	--	--
30...	.06	3.2	--	--	--	--	--	--	--	--
NOV										
05...	.10	2.9	--	--	--	--	--	--	--	--
FEB										
04...	.07	1.4	11.0	.20	1.0	2.4	--	--	--	--
11...	.10	1.9	7.0	.06	1.9	3.7	--	--	--	--
MAR										
24...	.16	2.9	--	.00	.00	2.8	--	--	--	6400
25...	.13	2.9	--	.11	.90	3.8	--	--	--	9100
27...	.08	2.0	--	.00	.00	2.0	--	--	--	5700
31...	.07	2.2	--	.09	1.1	3.3	--	--	--	5000
APR										
02...	.10	2.9	--	.00	.00	2.9	--	--	--	7100
03...	.07	2.7	11.7	.42	.50	3.2	--	--	--	7400
03...	.10	2.2	.00	--	.80	3.0	--	--	--	5300
15...	.07	3.9	--	.00	.00	3.9	--	--	--	3900
18...	.07	3.2	--	--	--	3.2	--	--	--	4600
21...	.12	3.1	--	.00	.00	3.1	--	--	--	4100
23...	.12	2.5	1.2	.30	.70	3.2	--	--	--	4100
30...	.13	2.2	4.0	.12	.80	2.9	--	--	--	9700
MAY										
06...	.10	1.3	.00	.08	.80	2.0	--	--	--	3300
13...	.14	3.5	3.3	.11	1.5	5.2	--	--	--	36000
15...	.17	2.9	--	--	.40	3.4	--	--	--	52000
19...	.21	3.4	--	.00	.00	3.4	--	--	--	35000
28...	.09	2.5	.00	--	.50	3.0	--	--	--	--
30...	.14	1.9	5.0	.15	1.1	3.0	--	--	--	--
JUN										
02...	.16	4.7	--	.00	.00	4.7	--	--	--	--
05...	.20	4.1	10.3	.13	1.8	5.9	--	--	--	--
09...	.11	6.1	7.9	.16	5.2	11	--	--	--	--
13...	.09	5.2	--	--	--	--	--	--	--	--
16...	.08	5.2	12.5	--	2.0	7.1	--	--	--	--
19...	.20	3.0	9.5	.31	6.2	9.2	--	--	--	--
26...	.26	3.4	--	--	--	--	--	--	--	--
30...	.24	7.4	--	--	--	--	--	--	--	36000
JUL										
02...	.12	6.9	4.3	.26	9.9	16	--	--	--	--
08...	.11	6.5	14.1	.49	2.9	9.5	--	--	--	--
11...	.14	4.5	12.4	.12	3.1	7.7	--	--	--	41000

APPENDIX A
 01546580 - POTOMAC R AT CHAIN BRIDGE, AT WASH, DC --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	TRAVS- PAR- ENCY DISK (TV)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	(00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTEVS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, IMME- DIATE (MG/L)	(00302)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)
JUL																		
21...	1400			1350														.00
24...	1140			1350														.00
28...	1030			1350														.00
31...	1229			1350														.00
AUG																		
05...	1440			1350														.00
08...	1325			1350														.00
11...	1120			1350														.00
15...	1334			1350														.00
18...	1025			1350														.00
20...	1115			1350														.00
25...	1015			1350														.00
28...	1000			1350														.00
SEP																		
03...	1330			1350														.00
05...	2040			1350														.00
08...	1515			1350														.00
16...	1340			1350														.00
18...	1550			1350														.00
22...	1220			1350														.00

APPENDIX A

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON ACEDIUS (M3/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. JAYS LAGTIME AT 20C (92135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (92132)	OXYGEN DEMAND, BIOCHEM NITROG. JAYS LAGTIME AT 20C (00321)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00319)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCEI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUL 21...	.20	5.9	--	.00	.00	5.9	--	--	--	--
24...	.09	4.9	--	.00	.00	4.9	--	--	--	--
28...	.13	5.2	--	.00	.00	5.2	--	--	--	--
31...	.10	5.2	--	.00	.00	5.2	--	--	--	15000
AUG 05...	.14	4.7	14.1	--	.50	5.6	--	--	--	9200
08...	.16	3.7	--	.00	.00	3.7	--	--	--	5700
11...	.25	3.7	--	--	--	7.0	--	--	--	6000
15...	.18	3.4	--	--	--	--	--	--	--	--
18...	.18	7.5	.00	.62	2.4	9.9	--	--	--	--
20...	.15	3.2	10.2	.10	2.2	5.4	--	--	--	3900
25...	.10	2.2	.28	.06	2.8	4.9	--	--	--	--
28...	.13	3.0	--	.00	.00	3.0	--	--	--	--
SEP 03...	.18	1.9	9.7	.16	2.2	4.1	--	--	--	2400
05...	.09	1.4	5.0	.18	1.2	2.6	--	--	--	3400
08...	.13	1.1	5.5	.13	1.3	2.4	--	--	--	--
16...	.04	3.0	13.8	--	.50	3.6	--	--	--	2400
18...	.14	3.3	.00	.11	1.1	4.4	--	--	--	--
22...	.06	2.1	--	--	1.1	3.2	--	--	--	--

APPENDIX A
 POTOMAC R AT CHAIN BRIDGE, AT WASH, DC Cont.

01646580

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FIT FM L BANK) (00009)	TRANS- PAR- ENCY {SECCHI DISK (IN) (00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET) (00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET) (00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET) (00199)	LIGHT INCID, 400- 700NM INTENS, (U-EINS /SQM/S) (00200)	OXYGEN DEMAND, RIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
OCT	06...	---	1350	--	--	--	--	--	1.0	-.3
	1145	---	1350	--	--	--	--	--	.00	.0
	1035	---	1350	--	--	--	--	--	2.0	-.4
	1350	---	1350	--	--	--	--	--	.00	.0
NOV	06...	---	1350	--	--	--	--	--	.00	.0
	1610	---	1350	--	--	--	--	--	.00	.0
	0940	---	1350	--	--	--	--	--	.00	.0
	0955	---	1350	--	--	--	--	--	.00	.0
DEC	01...	---	1350	--	--	--	--	--	.00	.0
	11...	---	1350	--	--	--	--	--	.00	.0
	1250	---	1350	--	--	--	--	--	.00	.0
	1025	---	1350	--	--	--	--	--	.00	.0
	1100	---	1350	--	--	--	--	--	.00	.0
JAN	06...	---	1350	--	--	--	--	--	1.0	.3
	1530	---	1350	--	--	--	--	--	2.0	.5
	1040	---	1350	--	--	--	--	--	.00	.0
	1015	---	1350	--	--	--	--	--	.00	.0
FER	02...	---	1350	--	--	--	--	--	.00	.0
	03...	---	1350	--	--	--	--	--	.00	.0
	04...	---	1350	--	--	--	--	--	.00	.0
	1200	---	1350	--	--	--	--	--	.00	.0
	1300	---	1350	--	--	--	--	--	.79	-.5
	1120	---	1350	--	--	--	--	--	.00	.0
	12...	---	1350	--	--	--	--	--	.00	.0
	13...	---	1350	--	--	--	--	--	.00	.0
	17...	---	1350	--	--	--	--	--	.00	.0
	0945	---	1350	--	--	--	--	--	.00	.0
	1040	---	1350	--	--	--	--	--	.00	.0
	1100	---	1350	--	--	--	--	--	.00	.0
	24...	---	1350	--	--	--	--	--	.00	.0
	25...	---	1350	--	--	--	--	--	.00	.0
	26...	---	1350	--	--	--	--	--	.00	.0
	1445	---	1350	--	--	--	--	--	.00	.0
	0900	---	1350	--	--	--	--	--	.00	.0
MAR	03...	---	1350	--	--	--	--	--	.00	.0
	10...	---	1350	--	--	--	--	--	.00	.0
	1445	---	1350	--	--	--	--	--	.00	.0
	25...	---	1350	--	--	--	--	--	1.7	-.4
APR	03...	---	1350	--	--	--	--	--	.00	.0
	08...	---	1350	--	--	--	--	--	.00	.0

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM JLT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. LAGTIME AT 20C. (82136)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. JLT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00319)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00325)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31616)	STREP- TOCCCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL CELLS PER ML) (60050)
OCT										
06...	.09	3.5	3.5	.74	.90	4.5	--	--	--	--
15...	.17	6.0	9.0	.12	2.0	8.0	--	--	--	--
23...	.10	2.3	--	--	.80	3.0	--	--	--	2400
27...	.23	2.5	9.5	.11	1.5	4.1	--	--	--	--
NOV										
06...	.12	2.7	--	.00	.00	2.7	--	--	--	--
10...	.08	4.0	--	.00	.00	4.0	--	--	--	--
17...	.06	3.9	--	.00	.00	3.9	--	--	--	--
25...	.14	3.7	14.0	--	1.3	5.1	--	--	--	--
DEC										
01...	.13	3.5	7.0	.15	1.3	4.8	--	--	--	--
11...	.07	2.8	1.0	.13	.70	3.5	--	--	--	980
19...	.15	1.9	9.4	.12	.97	2.8	--	--	--	--
24...	.06	2.4	3.0	.14	.92	3.4	--	--	--	--
30...	.06	2.9	3.7	.19	.50	3.4	--	--	--	--
JAN										
06...	.12	2.5	11.0	.77	.70	3.2	--	--	--	--
15...	.10	2.7	11.0	.40	.90	3.6	--	--	--	--
21...	.10	3.1	7.8	.23	1.2	4.3	--	--	--	--
28...	.05	4.8	--	.00	.00	4.8	--	--	--	--
FEB										
02...	.11	5.4	15.0	--	.50	6.0	--	--	--	--
03...	.10	4.4	15.0	--	.50	4.9	--	--	--	--
04...	.12	5.5	9.0	.40	1.5	7.1	--	--	--	--
10...	.07	7.5	7.9	.08	4.1	12	--	--	--	--
11...	.07	9.3	15.0	.67	.90	10	--	--	--	--
12...	.12	7.8	3.2	.10	3.8	12	--	--	--	4700
13...	.15	15	6.9	.24	5.6	21	--	--	--	--
17...	.06	8.4	6.4	.10	2.5	11	--	--	--	--
23...	.10	7.4	.97	.11	2.2	9.6	--	--	--	--
24...	.14	6.4	4.4	.12	3.6	10	--	--	--	--
25...	.20	3.8	5.0	.11	5.6	9.4	--	--	--	--
26...	.15	3.1	5.8	.19	2.0	5.0	--	--	--	--
27...	.06	3.3	5.2	.40	1.1	4.4	--	--	--	--
MAR										
03...	.10	2.0	10.5	.33	.87	2.9	--	--	--	<5100
10...	.05	2.5	8.0	.24	.59	3.1	--	--	--	--
16...	.09	2.1	.00	.17	3.5	5.6	--	--	--	--
25...	.07	3.5	--	.00	.00	3.5	--	--	--	--
APR										
03...	.16	6.2	--	.00	.00	6.2	--	--	--	11000
08...	.13	7.2	--	--	2.3	9.4	--	--	--	--

APPENDIX A
 01646590 - POTOMAC R AT CHAIN BRIDGE, AT WASH, DC ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FIT FM L BANK) (00009)	TRANS- PAR- ENCY (SECCHI DISK) (TV) (00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET) (00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET) (00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET) (00199)	LIGHT INCID, 400- 700NM INTEVS, (U-EINS /SQM/S) (00200)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)	OXYGEN DEMAND, CARBON, DAYS LAGTIME AT 20C (R2135)
APR	14...	---	1350	--	--	--	--	---	.0	.00
	1800	---	1350	--	--	--	--	---	.0	.00
	16...	---	1350	--	--	--	--	---	.0	.00
	1130	---	1350	--	--	--	--	---	.0	.00
	1125	---	1350	--	--	--	--	---	.0	.00
MAY	14...	---	1350	--	--	--	--	---	.0	.00
	0725	---	1350	--	--	--	--	---	.0	.00
	1050	---	1350	--	--	--	--	---	.0	.00
JUN	1240	---	1350	--	--	--	--	---	.0	.00
	1035	---	1350	--	--	--	--	---	.0	.00
	1440	---	1350	--	--	--	--	---	.2	-.83
JUL	1310	---	1350	--	--	--	--	---	.0	.00
	08...	---	1350	--	--	--	--	---	.0	.00
	1400	---	1350	--	--	--	--	---	.0	.00
	1350	---	1350	--	--	--	--	---	.0	.00
	1155	---	1350	--	--	--	--	---	-.2	.58
AUG	1500	---	1350	--	--	--	--	---	.0	.00
	0850	---	1350	--	--	--	--	---	.0	.00
	1010	---	1350	--	--	--	--	---	.0	.00
	1420	---	1350	--	--	--	--	---	.0	.00
SEP	01...	---	1350	--	--	--	--	---	.0	.00
	08...	---	1350	--	--	--	--	---	.0	.00
	1420	---	1350	--	--	--	--	---	.0	.00

01646580 - POTOMAC R AT CHAIN BRIDGE, AT WASH, DC --Cont.

APPENDIX A

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXY- NATION CARBON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. LAGTIME AT 20C. (92135)	DEOXY- NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00319)	DEOXY- SENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UV-MF (COLS./ 100 ML) (31616)	STREP- TOCOC FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
APR 14...	.14	7.5	4.9	.23	2.2	9.8	--	--	--	<17000
15...	.13	6.5	2.0	.14	1.9	8.3	--	--	--	3300
16...	.14	4.7	7.0	.10	2.4	7.2	--	--	--	4900
20...	.12	3.2	7.5	.09	1.7	4.9	--	--	--	--
28...	.15	4.0	4.4	.14	1.7	6.0	--	--	--	--
MAY 14...	.18	3.9	9.1	--	1.4	5.3	--	--	--	14000
19...	.07	2.7	5.5	.27	1.4	4.2	--	--	--	8400
27...	.09	13	9.4	.16	3.4	16	--	--	--	--
JUN 01...	.08	4.1	4.9	.14	1.5	5.6	--	--	--	7700
11...	.08	1.8	8.4	.24	.81	2.6	--	--	--	2400
24...	.09	3.1	4.5	.35	1.3	4.5	--	--	--	11000
JUL 06...	.11	2.9	9.0	.39	.65	3.5	--	--	--	8200
08...	.10	6.2	9.7	.24	2.2	8.4	--	--	--	>360
20...	.15	3.2	12.0	.39	.89	4.1	--	--	--	>8200
28...	.09	3.9	9.1	.25	.90	4.8	--	--	--	21000
AUG 06...	.12	7.2	--	.00	.00	7.2	--	--	--	32000
12...	.10	8.3	10.0	.24	2.5	11	--	--	--	56000
18...	.09	6.1	11.2	.22	2.0	8.1	--	--	--	>27000
24...	.11	4.4	15.3	--	1.1	5.5	--	--	--	>7000
SEP 01...	.10	2.3	5.3	.16	2.1	4.9	--	--	--	9600
08...	.07	2.7	11.0	.09	1.4	4.1	--	--	--	--
24...	.11	2.9	--	.00	.00	2.9	--	--	--	--

APPENDIX A
 385315077031900 - POTOMAC RIVER AT MEMORIAL BRIDGE

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SAMPLE LOC- ATION CROSS SECTION (FT FM L BANK) (00009)	TRANS- PAR- ENCY (SECCHI DISK) (IV) (00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET) (00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET) (00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET) (00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S) (00200)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)	OXYGEN DEMAND, CARBON, DAYS LAGTIME AT 20C (82135)
AUG 09...	0930	---	300	--	--	--	--	--	.0	.00
09...	1000	---	650	--	--	--	--	--	.0	.00
09...	1050	---	300	--	--	--	--	--	.0	.00
09...	1100	---	650	--	--	--	--	--	.0	.00
09...	1155	---	300	--	--	--	--	--	.0	.00
09...	1200	---	650	--	--	--	--	--	.0	.00
09...	1210	---	1200	--	--	--	--	--	.0	.00
09...	1255	---	300	--	--	--	--	--	.0	.00
09...	1310	---	650	--	--	--	--	--	.0	.00
09...	1325	---	1200	--	--	--	--	--	.0	.00
09...	1350	---	300	--	--	--	--	--	.0	.00
09...	1405	---	650	--	--	--	--	--	.0	.00
09...	1420	---	1200	--	--	--	--	--	.0	.00
09...	1455	---	300	--	--	--	--	--	.0	.00
09...	1515	---	1200	--	--	--	--	--	.0	.00
09...	1645	---	300	--	--	--	--	--	.0	.00
09...	1700	---	550	--	--	--	--	--	.0	.00
09...	1710	---	1200	--	--	--	--	--	.0	.00
09...	1755	---	300	--	--	--	--	--	.0	.00
09...	1805	---	650	--	--	--	--	--	.0	.00
09...	1815	---	1200	--	--	--	--	--	.0	.00
09...	1850	---	300	--	--	--	--	--	.0	.00
09...	1910	---	650	--	--	--	--	--	.0	.00
09...	1925	---	1200	--	--	--	--	--	.0	.00
20...	0630	---	50000	--	--	--	--	--	.0	.00
21...	1100	---	50000	--	--	--	--	--	.0	.00
22...	0715	---	50000	--	--	--	--	--	.0	.00
23...	0630	---	50000	--	--	--	--	--	.0	.00
24...	0630	---	50000	--	--	--	--	--	.0	.00

APPENDIX A

385315077031300 - POTOMAC RIVER AT MEMORIAL BRIDGE --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	DEOXYGENATION COEFFICIENT AT 20C (82133) (00320)	OXYGEN DEMAND BIOCHEMICAL ULT. AT 20C (82135)	DEOXYGENATION COEFFICIENT AT 20C (82132)	OXYGEN DEMAND BIOCHEMICAL ULT. (MG/L) (00321)	OXYGEN DEMAND BIOCHEMICAL ULT. (MG/L) (00319)	DEOXYGENATION COEFFICIENT AT 20C (00325)	COLIFORMS FECAEAL 0.45 UM-MF (COLS./100 ML) (31616)	STREPTOCOCCI FECAEAL KF AGAR (COLS./100 ML) (31673)	PHYTOPLANKTON TOTAL (CELLS PER ML) (60050)
AUG 09....	.17	5.1	6.8	.05	4.0	9.1	---	---	---
09....	.26	4.1	5.5	.11	3.5	7.6	---	---	---
09....	.26	3.9	9.5	.14	3.0	6.8	---	---	---
09....	.19	5.1	7.1	.07	1.8	6.9	---	---	---
09....	.13	5.3	9.9	.12	1.1	6.9	---	---	---
09....	.13	4.4	9.7	.26	1.9	6.2	---	---	---
09....	.11	6.3	7.5	.31	.71	7.0	---	---	---
09....	.19	4.2	7.0	.07	3.4	7.6	---	---	---
09....	.14	5.2	9.4	.04	4.1	9.3	---	---	---
09....	.23	3.7	7.2	--	3.2	6.9	---	---	---
09....	.16	4.8	7.4	.05	3.7	8.5	---	---	---
09....	.21	3.3	5.9	.10	3.9	7.1	---	---	---
09....	.12	6.1	8.2	.10	1.7	7.8	---	---	---
09....	.13	5.7	6.1	.05	2.5	8.2	---	---	---
09....	.16	4.9	10.0	--	.83	5.6	---	---	---
09....	.14	6.0	13.0	.33	1.1	7.2	---	---	---
09....	.16	5.1	9.0	.08	3.4	8.5	---	---	---
09....	.15	6.2	5.9	.12	2.2	8.4	---	---	---
09....	.27	3.5	6.7	.08	4.2	7.7	---	---	---
09....	.22	4.2	9.1	.08	4.1	8.3	---	---	---
09....	.19	5.0	11.0	.13	3.5	8.5	---	---	---
09....	.32	3.8	6.0	.07	5.3	9.1	---	---	---
09....	.15	4.9	5.3	.07	2.8	7.6	---	---	---
09....	.11	6.2	11.0	1.2	.55	6.9	---	---	---
20....	.24	6.0	10.0	.31	4.5	11	---	---	---
21....	.10	7.7	9.9	.34	1.5	9.2	---	---	---
22....	.08	4.3	4.9	.13	3.3	7.6	---	---	---
23....	.05	4.7	5.2	.12	1.9	6.5	---	---	---
24....	.13	2.4	5.5	.06	4.2	6.6	---	---	---
									472000

APPENDIX A
 385315077031R00 - POTOMAC RIVER AT MEMORIAL BRIDGE ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	TRANS- PAR- ENCY (SECCI DISK)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	(00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, IMME- DIATE (MG/L)	(00302)	OXYGEN DEMAND, RIOCHEM CARBON, DAYS LAGTIME AT 20C (R2135)
JUL	04...	3.00	475	---	50000	28.0	---	---	---	---	---	---	---	---	---	---	---	---
04...	1900	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09...	1702	3.00	475	---	---	28.0	---	---	---	---	---	---	---	---	---	---	---	---
09...	1711	3.00	1180	---	---	24.0	---	---	---	---	---	---	---	---	---	---	---	---
09...	1712	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
16...	1633	1.00	475	---	---	29.0	---	---	---	---	---	---	---	---	---	---	---	---
16...	1641	1.00	1180	---	---	27.0	---	---	---	---	---	---	---	---	---	---	---	---
16...	1642	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23...	0824	1.00	475	---	---	25.0	---	---	---	---	---	---	---	---	---	---	---	---
23...	0835	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23...	0837	1.00	1180	---	---	26.0	---	---	---	---	---	---	---	---	---	---	---	---
23...	1930	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
30...	0952	1.00	475	---	---	24.0	10.0	---	---	---	---	2.000	---	---	---	---	---	---
30...	0957	1.00	1180	---	---	24.0	9.50	---	---	---	---	1.500	---	---	---	---	---	---
30...	1000	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
30...	1915	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
30...	1922	1.00	475	---	---	30.0	7.00	---	---	---	---	.500	---	---	---	---	---	---
30...	1927	1.00	1180	---	---	30.0	8.00	---	---	---	---	.500	---	---	---	---	---	---
AUG	04...	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04...	0810	1.00	475	---	---	28.0	8.70	---	---	---	---	1.500	---	---	---	---	---	---
04...	0813	1.00	1180	---	---	29.0	10.1	---	---	---	---	1.200	---	---	---	---	---	---
04...	0827	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04...	1800	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04...	1812	3.00	1180	---	---	22.0	7.10	---	---	---	---	1.000	150	---	---	---	---	---
04...	1832	3.00	475	---	---	19.0	---	---	---	---	---	1.500	90.0	---	---	---	---	---
05...	0727	1.00	475	---	---	26.0	---	---	---	---	---	---	---	---	---	---	---	---
05...	0730	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05...	0736	11.0	1180	---	---	24.0	---	---	---	---	---	---	---	---	---	---	---	---
05...	1852	1.00	1180	---	---	24.0	---	---	---	---	---	.500	---	---	---	---	---	---
05...	1857	1.00	475	---	---	34.0	---	---	---	---	---	.500	---	---	---	---	---	---
05...	1900	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05...	0727	1.00	475	---	---	36.0	9.00	---	---	---	---	.800	---	---	---	---	---	---
06...	0730	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06...	0737	1.00	1180	---	---	23.0	6.50	---	---	---	---	.800	---	---	---	---	---	---
06...	1733	.10	475	---	---	35.0	9.50	---	---	---	---	.670	---	---	---	---	---	---
06...	1740	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06...	1744	.10	1180	---	---	36.0	10.1	---	---	---	---	.500	---	---	---	---	---	---
07...	0822	1.00	1180	---	---	33.0	8.25	---	---	---	---	1.000	---	---	---	---	---	---
07...	0830	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07...	0833	1.00	475	---	---	33.0	8.00	---	---	---	---	.800	---	---	---	---	---	---

APPENDIX A

395315077031800 - POTOMAC RIVER AT MEMORIAL BRIDGE ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARRON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS. DAYS LAGTIME AT 20C (92135)	DEOXYGE NATION KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROS. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM NITROS. ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUL										
04....	..	..	..	..	..	..	..	..	..	..
04....	.04	12	..	..	..	..	..	..	..	..
09....	..	..	..	..	..	..	..	..	..	..
09....	..	..	..	..	..	..	..	..	..	..
09....	.16	5.3	9.3	.18	4.2	9.5	..	..	..	..
16....	..	..	..	..	..	..	..	..	..	..
16....	..	..	..	..	..	..	..	..	..	..
16....	.10	7.5	1.5	.12	1.2	8.8	..	..	..	..
23....	..	..	..	..	..	..	..	..	..	..
23....	.12	6.4	8.0	.15	2.0	8.8	..	18500	5000	7500
23....	..	..	..	..	..	..	..	..	..	..
23....	.10	4.4	12.0	.12	2.5	6.9	..	..	..	12000
30....	..	..	..	..	..	..	..	..	..	..
30....	..	..	..	..	..	..	..	..	..	..
30....	.19	3.3	..	..	..	..	..	..	74	24000
30....	.15	7.2	4.3	.26	..	11	..	500	..	23000
30....	..	..	..	..	..	..	..	..	..	..
30....	..	..	..	..	..	..	..	..	..	..
AUG										
04....	.10	6.2	..	..	..	..	..	260	500	..
04....	..	..	..	..	..	..	..	..	..	..
04....	..	..	..	..	..	..	..	..	..	..
04....	.15	6.4	14.0	..	1.8	8.2	..	..	..	24000
04....	..	..	..	..	..	..	..	..	..	..
04....	..	..	..	..	..	..	..	..	..	..
05....	..	..	..	..	..	..	..	..	..	..
05....	.16	4.2	11.7	.48	1.9	6.1	..	960	660	9800
05....	..	..	..	..	..	..	..	..	..	..
05....	..	..	..	..	..	..	..	..	..	..
05....	..	..	..	..	..	..	..	..	..	..
05....	.13	5.0	14.2	..	1.2	6.2	..	..	..	16000
06....	..	..	..	..	..	..	..	..	..	..
06....	.13	3.7	10.3	.19	3.1	6.8	..	1220	336	<6000
06....	..	..	..	..	..	..	..	..	..	..
06....	..	..	..	..	..	..	..	..	..	..
06....	.18	4.0	9.9	..	3.2	7.3	..	..	..	<25000
06....	..	..	..	..	..	..	..	..	..	..
07....	..	..	..	..	..	..	..	..	..	..
07....	.15	3.2	10.9	.18	3.5	6.8	..	1200	1490	9400
07....	..	..	..	..	..	..	..	..	..	..
07....	..	..	..	..	..	..	..	..	..	..

APPENDIX A
 395315077031900 - POTOMAC RIVER AT MEMORIAL BRIDGE --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT F4 L BANK)	TRANS- PAR- ENCY (DISK IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTEVS. (U-EINS /SQM/S)	OXYGEN DEMAND, RHOCEM CARBON, DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
AUG 07...	1732	1.00	475	36.0	10.0	--	1.800	--	--	--
07...	1742	1.00	1180	34.0	11.5	--	.800	--	--	--
07...	1745	--	50000	--	--	--	--	--	.00	--
08...	0702	1.00	475	36.0	10.0	--	1.500	--	--	--
08...	0710	--	50000	--	--	--	--	--	.00	--
08...	0713	1.00	1180	37.0	10.5	--	1.500	--	--	--
08...	1749	1.00	1180	29.0	9.75	--	1.000	--	--	--
08...	1750	--	50000	--	--	--	--	--	.00	--
08...	1755	1.00	475	38.0	10.0	--	1.000	--	--	--
11...	1845	--	475	--	--	--	--	--	.00	--
13...	0818	1.00	475	33.0	--	--	1.000	600	--	--
13...	0833	1.00	1180	27.0	7.25	--	.800	700	--	--
13...	0834	--	50000	--	--	--	--	--	.00	--
13...	1824	1.00	475	40.0	11.0	--	1.000	--	--	--
13...	1934	1.00	1180	36.0	11.3	--	2.000	--	--	--
13...	1840	--	50000	--	--	--	--	--	.00	--
20...	0838	1.00	475	24.0	5.50	--	1.000	600	--	--
20...	0845	--	50000	--	--	--	--	--	.00	--
20...	0849	1.00	1180	25.0	6.50	--	1.500	450	--	--
20...	1914	1.00	475	36.0	--	--	--	--	--	--
20...	1920	--	50000	--	--	--	--	--	.00	--
20...	1926	1.00	1180	34.0	--	--	--	--	--	--
SEP 03...	1937	1.00	475	42.0	--	--	.300	--	--	--
03...	2000	--	50000	--	--	--	--	--	.00	--
15...	1337	1.00	475	36.0	11.0	--	.340	490	--	--
15...	1342	1.00	1180	36.0	10.5	--	.400	600	--	--
15...	1345	--	50000	--	--	--	--	--	.00	--

APPENDIX A
 385315077031900 - POTOMAC RIVER AT MEMORIAL BRIDGE --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-4F (COLS./ 100 ML) (31616)	STREP- TOCOCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
AUG 07...	--	--	--	--	--	--	--	--	--	--
07...	.13	5.3	14.2	--	2.1	7.4	--	--	--	12000
08...	.11	4.5	14.8	--	.99	5.6	--	--	--	<11000
08...	--	--	--	--	--	--	--	--	--	--
08...	.19	3.7	10.0	.15	3.3	7.0	--	1400	350	11000
08...	.20	4.3	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	.09	4.9	1.4	.19	1.1	6.1	--	850	0	7500
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	6700
13...	.11	4.0	10.7	.22	2.2	6.2	--	--	--	9200
20...	.10	3.2	9.0	--	.90	4.0	--	460	4	--
20...	--	--	--	--	--	--	--	--	--	--
20...	.14	3.4	10.9	.10	1.6	5.0	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
SEP 03...	--	--	--	--	--	--	--	--	--	--
03...	.15	2.2	7.4	.18	1.5	3.7	--	720	50	7900
15...	--	--	--	--	--	--	--	--	--	--
15...	.13	3.3	--	.00	.00	3.8	--	1350	0	15000

APPENDIX A
 385315077031900 - POTOMAC RIVER AT MEMORIAL BRIDGE ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT 54, L RANK)	(00009)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	(00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, TIME- DIATE (MG/L)	(00302)	OXYGEN DEMAND, RIOCHFM CARBON, LAGTIME AT 20C (82135)
NOV																		
02...	1154	1.00	475		18.0	54.0	--	18.0	--	--	1.500	550	--	--	--	--	--	--
02...	1200	--	50000		--	--	--	--	--	--	--	--	--	--	--	0.0	--	0.00
02...	1208	1.00	1190		16.0	42.0	--	16.0	--	--	1.000	1100	--	--	--	--	--	--
DEC																		
16...	1700	17.0	475		--	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	1702	1.00	475		--	73.0	--	--	4.500	--	--	2.00	--	--	--	--	--	--
JUL																		
08...	2350	--	50000		--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.00
20...	0924	1.00	475		--	36.0	--	--	--	--	--	--	--	--	--	--	--	--
20...	0930	--	50000		--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.00
20...	0937	1.00	1190		--	48.0	--	--	--	--	--	--	--	--	--	--	--	--
20...	2140	--	50000		--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.00
21...	0812	2.00	475		--	42.0	--	--	--	--	--	--	--	--	--	--	--	--
21...	0815	--	50000		--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.00
21...	0819	1.00	1180		--	36.0	--	--	--	--	--	--	--	--	--	--	--	--
21...	1933	1.00	475		--	30.0	--	8.42	--	--	--	110	--	--	--	--	--	--
21...	1945	--	50000		--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.00
21...	1948	1.00	1180		--	32.0	--	--	3.580	--	--	30.0	--	--	--	--	--	--
22...	0830	1.00	475		--	42.0	--	6.00	--	--	1.500	100	--	--	--	--	--	--
22...	0840	--	50000		--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.00
22...	0841	17.0	1180		--	42.0	--	8.00	--	--	.660	240	--	--	--	--	--	--
AUG																		
06...	1038	1.00	475		6.50	24.0	--	6.50	--	--	.800	190	--	--	--	--	--	--
06...	1050	--	50000		--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.00
06...	1054	1.00	1180		7.00	27.0	--	7.00	--	--	1.000	120	--	--	--	--	--	--
24...	1945	--	50000		--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.00
25...	0928	1.00	475		7.00	26.0	--	7.00	--	--	1.000	1000	--	--	--	--	--	--
25...	0930	--	50000		--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.00
25...	0936	1.00	1180		6.25	28.0	--	6.25	--	--	1.160	1000	--	--	--	--	--	--
25...	1948	1.00	475		--	30.0	--	--	--	--	--	--	--	--	--	--	--	--
25...	1957	1.00	1180		--	29.0	--	--	--	--	--	--	--	--	--	--	--	--
25...	2000	--	50000		--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.00
26...	0908	1.00	475		6.66	23.0	--	6.66	--	--	1.000	800	--	--	--	--	--	--
26...	0915	--	50000		--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.00
26...	0919	1.00	1180		6.33	23.0	--	6.33	--	--	.750	800	--	--	--	--	--	--
26...	1125	--	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	1848	1.00	475		--	29.0	--	6.50	--	--	.700	179	--	--	--	--	--	--
26...	1900	--	50000		--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.00
26...	1907	1.00	1180		7.80	32.0	--	7.80	--	--	1.000	90.0	--	--	--	--	--	--

APPENDIX A
 385315077031900 - POTOMAC RIVER AT MEMORIAL BRIDGE ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, RIOCHEM ULT. CARBON- ACEOUS (M3/L) (00320)	OXYGEN DEMAND, RIOCHEM NITROS. LAGTIME AT 20C (82135)	DEOXYGE NATION VITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, RIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, RIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SENA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
OCT 02...	..	..	..	..	..	..	..	..	..	..
02...	.14	3.2	..	.00	.00	3.2	..	..	..	..
02...	..	..	..	..	..	..	..	..	..	..
DEC 16...	..	..	..	..	..	..	..	20	170	..
16...	..	..	..	..	..	..	..	..	..	..
JUL 08...	.14	4.9	.10	.04	3.8	8.7	..	..	..	>20000
20...	..	..	..	..	..	..	..	..	..	..
20...	.16	4.0	1.0	.11	3.0	7.0	..	10	10	>24000
20...	..	..	..	..	..	..	..	..	..	..
20...	.14	4.3	7.6	.11	3.1	7.4	..	..	..	>19000
21...	..	..	..	..	..	..	..	..	..	..
21...	.14	4.9	.10	.05	2.0	6.9	..	15200	1630	>26000
21...	..	..	..	..	..	..	..	..	..	..
21...	..	..	..	..	..	..	..	..	..	..
21...	.14	5.9	12.8	..	1.9	7.8	..	..	..	>14000
21...	..	..	..	..	..	..	..	..	..	..
22...	..	..	..	..	..	..	..	..	..	..
22...	.14	3.8	10.9	.44	1.8	5.5	..	0	140	>14000
22...	..	..	..	..	..	..	..	..	..	..
AUG 06...	..	..	..	..	..	..	..	..	..	..
06...	.19	4.5	13.0	..	2.8	7.5	..	335	45	..
06...	..	..	..	..	..	..	..	..	..	..
24...	.16	3.5	16.0	..	1.7	5.2	..	..	..	>15000
25...	..	..	..	..	..	..	..	..	..	..
25...	.13	2.9	11.5	.32	2.4	5.3	..	390	225	>12000
25...	..	..	..	..	..	..	..	..	..	..
25...	..	..	..	..	..	..	..	..	..	..
25...	..	..	..	..	..	..	..	..	..	..
25...	.15	4.0	..	.00	.00	4.0	..	260	1400	>6700
26...	..	..	..	..	..	..	..	..	..	..
26...	.15	3.3	10.4	.27	1.5	4.8	..	..	..	>4700
26...	..	..	..	..	..	..	..	..	..	..
26...	..	..	..	..	..	..	..	124	798	..
26...	..	..	..	..	..	..	..	..	..	..
26...	..	..	..	..	..	..	..	..	..	..
26...	.15	5.7	..	.00	.00	5.7	..	..	..	>13000
26...	..	..	..	..	..	..	..	..	..	..

APPENDIX A
 385223077022400 - POTOMAC RIVER AT 14TH STREET BR WASH DC

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOCATION	SAMPLING DEPTH (FEET)	TRANS-PAR-ENCY (SECCHI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCIDENT. 400-700NM	OXYGEN DEMAND, BIOCHEM. ULT. (MG/L)	OXYGEN DEMAND, CARBON. DAYS LAGTIME AT 20C (82135)
JUN 17...	1930	3.00 1680	3.00	24.0	--	--	--	--	--	--
JUN 17...	1940	3.00 1000	3.00	23.0	--	--	--	--	--	--
JUN 27...	1621	3.00 1000	3.00	30.0	--	--	--	--	--	--
JUN 27...	1637	3.00 1680	3.00	36.0	--	--	--	--	-0.4	.50

DATE	TIME	OXYGEN DEMAND, BIOCHEM. ULT. (MG/L)	CARBONACEOUS (MG/L)	DEOXYGE NATION CARBON KI TO BASE F PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM. NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM. NITROG. ULT. (MG/L)	OXYGEN DEMAND, UNINHIB ULT. (MG/L)	DEOXYGENATION CON- STANT KI TO BASE E (00325)	COLIFORM, FECAL, 0.45 UM-VF (COLS./100 ML) (31616)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML) (31574)	PHYTOPLANKTON, TOTAL (CELLS PER ML) (60050)
JUN 17...	--	--	--	--	--	--	--	--	--	--	--
JUN 17...	--	--	--	--	--	--	--	--	--	--	--
JUN 27...	--	--	--	--	--	--	--	--	--	--	--
JUN 27...	.15	5.9	5.9	.00	.00	5.8	5.8	--	--	--	--

385223077022400 - POTOMAC RIVER AT 14TH STREET BR WASH DC --Cont.
 APPENDIX
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- DEPTH (FEET)	SAMPLE LOC- TION	CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (SECCHI DISK (IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, % DIATE (MG/L) (00302)
OCT											
21...	0720	1.00	1800		26.0	2.50	--	1.000	2.30	--	--
21...	0725	--	1800		--	--	--	--	--	--	.00
NOV											
18...	1547	2.00	1800		78.0	17.0	--	--	100	--	--
18...	1555	--	1800		--	--	--	--	--	--	.00
DEC											
16...	1649	1.00	1800		60.0	8.25	--	--	3.00	--	--
16...	1700	--	1800		--	--	--	--	--	--	1.2
16...	1705	--	50000		--	--	--	--	--	--	.00
FEB											
04...	0730	--	1800		--	--	--	--	--	--	.00
04...	0817	3.00	1800		18.0	5.00	--	--	20.0	--	--
MAR											
04...	1055	--	1800		--	--	--	--	--	--	.00
APR											
15...	0654	2.00	1800		6.0	2.90	--	--	420	--	--
15...	0655	--	1800		--	--	--	--	--	--	.45
MAY											
19...	0700	--	1800		--	--	--	--	--	--	.00
19...	0709	2.00	1800		30.0	--	4.500	--	--	--	--
JUN											
30...	0815	--	1800		--	--	--	--	--	--	.00
30...	0823	2.00	1800		20.0	7.00	--	--	290	--	--
JUL											
15...	1810	--	1800		--	--	--	--	--	--	.00
15...	1821	2.00	1800		30.0	7.00	--	--	1850	--	--
28...	1407	1.60	1800		32.0	--	--	--	--	--	--
28...	1415	--	1800		--	--	--	--	--	--	.00
AUG											
18...	1646	1.60	1800		25.0	--	--	--	--	--	--
18...	1650	--	1800		--	--	--	--	--	--	.00
SEP											
10...	0640	--	1800		--	--	--	--	--	--	.00
10...	0743	1.60	1800		32.0	--	--	--	--	--	--
22...	1050	--	1800		--	--	--	--	--	--	.00

APPENDIX A
 385223077022400 - POTOMAC RIVER AT 14TH STREET BR WASH DC --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARRON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. LAGTIME AT 20C (82135)	DEOXYGE NATION VITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
OCT 21...	--	--	--	--	--	--	--	--	--	--
21...	.17	4.5	11.0	.10	3.8	8.4	--	--	--	15000
NOV 18...	--	--	--	--	--	--	--	--	--	--
18...	.12	2.7	15.0	--	.83	3.5	--	100	720	390
DEC 16...	--	--	--	--	--	--	--	--	--	--
16...	.15	2.0	--	.00	.00	2.0	--	--	--	2200
16...	.13	1.8	4.5	.10	.70	2.6	--	--	--	--
FER 04...	.09	4.2	1.6	.12	.44	4.7	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
MAR 04...	.09	2.1	10.1	.41	.90	3.0	--	--	--	<7100
APR 15...	--	--	--	--	--	--	--	--	--	--
15...	.14	4.4	2.0	.14	2.5	6.9	--	--	--	5900
MAY 19...	.19	3.0	11.0	.28	1.3	4.4	--	--	--	9800
19...	--	--	--	--	--	--	--	--	--	--
JUN 30...	.12	3.9	5.7	.06	2.7	6.6	--	--	--	35000
30...	--	--	--	--	--	--	--	--	--	--
JUL 15...	.14	3.2	3.8	.10	.89	4.8	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	.09	5.0	13.6	--	.65	5.6	--	--	--	>20000
AUG 18...	--	--	--	--	--	--	--	--	--	--
18...	.11	3.8	.10	.05	5.0	8.8	--	--	--	>18000
SEP 10...	.07	2.4	9.5	.28	1.4	3.8	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
22...	.09	2.3	7.5	.13	1.0	3.3	--	--	--	>2000

APPENDIX A
 345141077015000 - POTOMAC RIVER AT DANGERFIELD ISLAND

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAM- PLING DEPTH (FEET) (000003)	SAMPLE LDC- ATION, CROSS SECTION (FT FM L RANK) (000009)	TRANS- PAR- ENCY (SECCHI DISK) (IV) (000077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET) (00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET) (00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET) (00199)	LIGHT INCID. 400- 700NM INTEVS. (U-EINS /SQM/S) (00200)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)	OXYGEN DEMAND, RIOCHEM CARBON, DAYS LAGTIME AT 20C (R2135)
JUL	0615	--	1100	--	--	--	--	--	.0	.00
26...	0620	--	1700	--	--	--	--	--	.0	.00
26...	0625	--	2100	--	--	--	--	--	.0	.00
26...	0640	--	2800	--	--	--	--	--	.0	.00
26...	0645	--	3400	--	--	--	--	--	.0	.00
26...	0710	--	1100	--	--	--	--	--	.0	.00
26...	0720	--	1700	--	--	--	--	--	.0	.00
26...	0735	--	2100	--	--	--	--	--	.0	.00
26...	0740	--	2800	--	--	--	--	--	.0	.00
26...	0755	--	3400	--	--	--	--	--	.0	.00
26...	0835	--	1100	--	--	--	--	--	.0	.00
26...	0845	--	1700	--	--	--	--	--	.0	.00
26...	0855	--	2100	--	--	--	--	--	.0	.00
26...	0900	--	2900	--	--	--	--	--	.0	.00
26...	0905	--	3400	--	--	--	--	--	.0	.00
26...	0950	--	1100	--	--	--	--	--	.0	.00
26...	0955	--	1700	--	--	--	--	--	.0	.00
26...	1005	--	2100	--	--	--	--	--	.0	.00
26...	1010	--	2800	--	--	--	--	--	.0	.00
26...	1020	--	3400	--	--	--	--	--	.0	.00
26...	1145	--	1100	--	--	--	--	--	.0	.00
26...	1155	--	1700	--	--	--	--	--	.0	.00
26...	1205	--	2100	--	--	--	--	--	.0	.00
26...	1210	--	2800	--	--	--	--	--	.0	.00
26...	1215	--	3400	--	--	--	--	--	.0	.00
26...	1330	--	1100	--	--	--	--	--	.0	.00
26...	1340	--	1700	--	--	--	--	--	.0	.00
26...	1350	--	2100	--	--	--	--	--	.0	.00
26...	1400	--	2800	--	--	--	--	--	.0	.00
26...	1405	--	3400	--	--	--	--	--	.0	.00
26...	1528	--	1100	--	--	--	--	--	.0	.00
26...	1533	--	1700	--	--	--	--	--	.0	.00
26...	1540	--	2100	--	--	--	--	--	.0	.00
26...	1545	--	2800	--	--	--	--	--	.0	.00
26...	1550	--	3400	--	--	--	--	--	.0	.00
26...	1719	--	1100	--	--	--	--	--	.0	.00
26...	1725	--	1700	--	--	--	--	--	.0	.00
26...	1735	--	2100	--	--	--	--	--	.0	.00
26...	1742	--	2800	--	--	--	--	--	.0	.00

APPENDIX A
 385141077015000 - POTOMAC RIVER AT DANGERFIELD ISLAND --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	DEOXYGF NATION CARBON KI TO	OXYGEN DEMAND, BIOCHEM ULT.	OXYGEN DEMAND, BIOCHEM NITROG. ULT.	DEOXYGE NATION VITROG. KI TO	OXYGEN DEMAND, BIOCHEM UNINHIS ULT.	DEOXY- GENA- TION CON- STANT	COLI- FORM, FECAL, 0.45 UM-WF	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)
	(82133)	(00320)	(82135)	(82132)	(00321)	(00325)	(31616)	(31673)	(60050)
JUL 26...	.15	7.3	5.9	.25	6.2	14	--	--	--
26...	.12	9.4	4.4	.56	4.0	13	--	--	--
26...	.18	5.5	5.5	.29	2.8	8.4	--	--	--
26...	.23	4.0	5.7	.17	4.5	8.4	--	--	--
26...	.08	9.2	5.8	.60	1.4	11	--	--	--
26...	.23	6.2	5.7	.25	12	19	--	--	--
26...	.27	4.2	5.5	.24	7.3	12	--	--	--
26...	.22	4.0	5.7	.24	5.4	9.4	--	--	--
26...	.25	3.7	5.1	.23	5.5	9.1	--	--	--
26...	.23	3.5	1.1	.08	7.2	11	--	--	--
26...	.23	5.5	9.0	.46	7.1	13	--	--	--
26...	.31	3.8	5.9	.28	5.1	8.9	--	--	--
26...	.23	4.2	7.6	.21	5.0	9.2	--	--	--
26...	.16	5.3	8.2	.37	3.4	8.7	--	--	--
26...	.19	5.0	9.4	.27	4.3	9.3	--	--	--
26...	.16	6.5	5.8	.30	4.4	11	--	--	--
26...	.28	4.2	9.1	.35	5.1	9.3	--	--	--
26...	.21	4.5	8.3	.48	4.2	8.7	--	--	--
26...	.21	4.9	8.5	.30	3.6	8.4	--	--	--
26...	.19	5.3	7.9	.30	3.2	8.5	--	--	--
26...	.23	5.3	9.8	.32	5.4	11	--	--	--
26...	.25	5.0	5.5	.22	5.2	10	--	--	--
26...	.16	6.7	8.4	.38	3.2	9.9	--	--	--
26...	.15	6.5	9.2	.42	2.6	9.0	--	--	--
26...	.14	6.5	5.5	.22	5.9	12	--	--	--
26...	.24	5.7	7.9	.45	8.7	14	--	--	--
26...	.18	5.9	5.8	.25	3.4	9.4	--	--	--
26...	.15	5.7	2.9	.13	2.9	8.6	--	--	--
26...	.16	6.1	5.3	.15	2.0	8.1	--	--	--
26...	.22	5.8	9.2	.34	4.5	10	--	--	--
26...	.21	6.4	7.5	.27	4.1	10	--	--	--
26...	.19	5.5	7.4	.13	3.0	8.6	--	--	--
26...	.20	6.1	9.2	.11	3.2	9.3	--	--	--
26...	.21	5.3	8.4	.17	2.4	7.8	--	--	--
26...	.13	8.1	5.5	.23	2.4	10	--	--	--
26...	.19	8.0	9.0	.38	7.9	16	--	--	--
26...	.21	5.0	10.2	--	1.1	6.2	--	--	--
26...	.14	7.1	9.5	.16	1.1	8.2	--	--	--
26...	.19	6.5	9.9	.38	3.1	9.6	--	--	--

APPENDIX A
 385141077015000 - POTOMAC RIVER AT DANGERFIELD ISLAND. --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SA4- DEPTH (FEET)	SA4- DEPTH (FEET)	SECTION (FT FM L BANK)	TRANS- PAR- ENCY (SECCHI DISK) (TV)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-ETNS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM CARBON DAYS LAGTIME AT 20C (82135)
		(00003)	(00034)	(00077)	(00198)	(00199)	(00200)	(00302)	(00200)	(00302)	(82135)
JUL											
26....	1747	--	--	--	--	--	--	--	--	.0	.00
26....	1839	--	--	--	--	--	--	--	--	.0	.00
26....	1849	--	--	--	--	--	--	--	--	.0	.00
26....	1901	--	--	--	--	--	--	--	--	.0	.00
26....	1906	--	--	--	--	--	--	--	--	.0	.00
26....	1955	--	--	--	--	--	--	--	--	.0	.00
26....	2002	--	--	--	--	--	--	--	--	.0	.00
26....	2010	--	--	--	--	--	--	--	--	.0	.00
26....	2011	--	--	--	--	--	--	--	--	.0	.00
26....	2015	--	--	--	--	--	--	--	--	.0	.00
26....	2019	--	--	--	--	--	--	--	--	.0	.00
26....	2022	--	--	--	--	--	--	--	--	.0	.00
26....	2030	--	--	--	--	--	--	--	--	.0	.00

DATE	TIME	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM NITROS. DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L)	OXYGEN DEMAND, BIOCHEM ULT. (MG/L)	DEOXY- SEVA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOC FECAL, KF AGAR (COLS. PER 100 ML)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)
		(00320)	(82135)	(82132)	(00321)	(00319)	(00325)	(31616)	(31573)	(60050)	
JUL											
26....	.18	5.2	7.5	.34	4.3	9.5	--	--	--	--	--
26....	.07	14	8.1	.31	7.5	21	--	--	--	--	--
26....	.22	5.4	7.9	.20	2.9	8.3	--	--	--	--	--
26....	.14	6.9	7.5	.27	1.8	8.7	--	--	--	--	--
26....	.13	8.1	8.2	.28	1.0	9.2	--	--	--	--	--
26....	.18	7.7	7.9	.50	12	20	--	--	--	--	--
26....	.15	5.1	5.5	.16	6.3	11	--	--	--	--	--
26....	.13	8.2	10.0	.41	8.2	16	--	--	--	--	--
26....	.09	9.2	5.9	.53	1.4	10	--	--	--	--	--
26....	.19	4.7	5.0	.14	4.2	9.0	--	--	--	--	--
26....	.16	5.5	7.7	.23	3.3	8.4	--	--	--	--	--
26....	.14	5.7	8.3	.22	3.1	8.8	--	--	--	--	--
26....	.15	4.9	7.1	.15	4.5	9.5	--	--	--	--	--

APPENDIX A
385039077012500 - POTOMAC RIVER AT GEISBORO POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM, L BANK) (00003) (00009) (00077) (00034) (00198) (00199) (00200)	TRANS- PAR- ENCY (SECCHI DISK) (TV) (00077) (00034) (00198) (00199) (00200)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET) (00034) (00198) (00199) (00200)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET) (00198) (00199) (00200)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET) (00199) (00200)	LIGHT INCID. 400- 700NM INTEVS. (U-EIWS /SQM/S) (00200)	OXYGEN DEMAND, BIOCHEM CARBON. IMME- DIATE (MG/L) (00302) (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302) (82135)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (82135)
AUG	20...	---	50000	--	--	--	--	.00	.00	.00
	22...	---	50000	--	--	--	--	.00	.00	.00
	24...	---	50000	--	--	--	--	.00	.00	.00
	27...	---	50000	--	--	--	--	.00	.00	.00

DATE	TIME	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133) (00320)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEDUS (MG/L) (00320) (82135)	DEOXYGE NATION VITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. JLT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT K1 TO BASE E (00325) (31616)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31616)	STREP- TOCOC FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
AUG	20...	.20	6.9	.19	7.2	14	--	--	--	<58000
	22...	.17	5.7	.13	3.5	9.2	--	--	--	<42000
	24...	.10	4.1	.02	5.5	9.6	--	--	--	<37000
	27...	.23	3.9	.15	3.1	6.9	--	--	--	<37000

APPENDIX A

385039077012600 - POTOMAC RIVER AT GEISBORO POINT --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FIT FM, L BANK)	TRANS- PAR- ENCY (SECCHI DISK (TN))	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM- ICAL, 5-DAY LAGTIME AT 20C (MG/L)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM- ICAL, 5-DAY LAGTIME AT 20C (MG/L)
OCT											
06...	0744	1.00	450	8.0	--	--	--	--	--	--	--
JUN											
17...	1900	2.00	375'	24.0	--	--	--	--	--	--	--
1910		--	50000	--	--	--	--	--	--	--	--
1525		--	50000	--	--	--	--	--	--	--	--
1528		3.00	375'	27.0	--	--	--	--	--	--	--
27...	1531	1.00	2700	24.0	--	--	--	--	--	--	--
JUL											
04...	1735	3.00	375'	24.0	--	--	--	--	--	--	--
1745		--	50000	--	--	--	--	--	--	--	--
04...	1752	1.00	2700	24.0	--	--	--	--	--	--	--
09...	1542	3.00	375'	24.0	--	--	--	--	--	--	--
09...	1600	--	50000	--	--	--	--	--	--	--	--
09...	1611	1.00	2700	18.0	--	--	--	--	--	--	--
16...	1615	--	50000	--	--	--	--	--	--	--	--
23...	0757	1.00	375'	22.0	--	--	--	--	--	--	--
23...	0800	1.00	2700	17.0	--	--	--	--	--	--	--
23...	0810	--	50000	--	--	--	--	--	--	--	--
30...	0912	1.00	375'	24.0	9.50	--	1.500	--	--	0.0	0.00
30...	0915	--	50000	--	--	--	--	--	--	--	--
30...	0921	1.00	2700	24.0	8.00	--	1.000	--	--	0.0	0.00
30...	1832	1.00	375'	18.0	6.00	--	.500	--	--	--	--
30...	1841	1.00	2700	22.0	5.00	--	.500	--	--	--	--
30...	1845	--	50000	--	--	--	--	--	--	0.0	0.00
AUG											
04...	0727	1.00	375'	24.0	6.00	--	.900	--	--	--	--
04...	0736	1.00	2700	22.0	5.90	--	.600	--	--	--	--
04...	0740	--	50000	--	--	--	--	--	--	0.0	0.00
04...	1750	--	50000	--	--	--	--	--	--	0.0	0.00
04...	1757	3.00	375'	22.0	7.90	--	1.000	--	--	--	--
04...	1811	3.00	2700	24.0	6.10	--	1.000	--	--	--	--
05...	0657	1.00	375'	24.0	--	--	--	--	--	--	--
05...	0700	--	50000	--	--	--	--	--	--	0.0	0.00
05...	0706	1.00	2700	23.0	--	--	--	--	--	--	--
05...	0712	1.00	375'	24.0	--	--	--	--	--	--	--
05...	0731	1.00	2700	24.0	--	--	--	--	--	--	--
05...	0740	--	50000	--	--	--	--	--	--	0.0	0.00
05...	0830	--	50000	--	--	--	--	--	--	0.0	0.00
05...	0842	1.00	375'	30.0	--	--	--	--	--	--	--
05...	0851	1.00	2700	22.0	--	--	--	--	--	--	--
05...	0855	--	50000	--	--	--	--	--	--	0.0	0.00
05...	0950	--	50000	--	--	--	--	--	--	0.0	0.00

APPENDIX A

385039077012500 - POTOMAC RIVER AT GEISBORG POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARRON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT, CARBON ACEOUS (M3/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG, DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION KI TO BASE E PER DAY (82132)	OXYGEN DEMAND, BIOCHEM NITROG, ULT, (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT, (MG/L) (00319)	DEOXYGE NATION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31616)	STREPTO- COCCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
OCT 06...	--	--	--	--	--	--	--	--	--	--
JUN 17...	--	--	--	--	--	--	--	--	--	--
17...	.08	6.0	13.7	--	2.2	8.2	--	--	--	--
27...	.15	6.5	12.5	.32	3.7	10	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
JUL 04...	--	--	--	--	--	--	--	--	--	--
04...	.18	9.1	11.3	.13	3.5	13	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	.20	10	9.2	.30	4.2	14	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
16...	.16	6.7	3.4	.10	3.0	9.7	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	.11	6.1	--	.00	.00	6.1	--	2460	1090	14000
30...	--	--	--	--	--	--	--	--	--	--
30...	.13	6.0	5.7	.23	3.5	9.6	--	24700	356	18000
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	.09	8.3	--	--	--	--	--	--	--	19000
AUG 04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	9.9	.16	560	204	28000
04...	.16	6.0	1.5	.14	3.9	9.9	--	--	--	<37000
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	14	.08	11500	184	14000
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	.13	7.1	--	--	--	--	--	--	--	--
05...	.10	6.9	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	.10	--	--	--	--	--	--	--	--	--
05...	.12	4.4	--	--	--	--	--	--	--	--

APPENDIX A
 385039077012500 - POTOMAC RIVER AT GEISHORO POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (SECCHI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON, LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
AUG										
05...	1012	1.00	375'	24.0	--	--	--	--	--	--
05...	1021	1.00	2700	23.0	--	--	--	--	--	--
05...	1122	1.00	375	30.0	--	--	--	--	--	--
05...	1131	1.00	2700	30.0	--	--	--	--	--	--
05...	1140	--	50000	--	--	--	--	--	1.4	--
05...	1244	1.00	375	25.0	--	--	--	--	--	--
05...	1250	--	50000	--	--	--	--	--	1.2	--
05...	1301	1.00	2700	29.0	--	--	--	--	--	--
05...	1403	1.00	375	28.0	--	--	--	--	--	--
05...	1411	1.00	2700	23.0	--	--	--	--	--	--
05...	1420	--	50000	--	--	--	--	--	.0	--
05...	1524	1.00	375	24.0	--	--	--	--	--	--
05...	1540	--	50000	--	--	--	--	--	.0	--
05...	1802	1.00	375	20.0	--	--	--	--	--	--
05...	1832	1.00	375	22.0	--	3.000	1.000	--	--	--
05...	1846	1.00	2700	22.0	--	3.000	.500	--	--	--
05...	1850	--	50000	--	--	--	--	--	-1.1	1.0
06...	0658	1.00	375	24.0	7.00	--	1.000	--	--	--
06...	0700	--	50000	--	--	--	--	--	.0	--
06...	0711	1.00	2700	24.0	5.90	--	.500	--	--	--
06...	0722	1.00	375	25.0	--	--	--	--	--	--
06...	0750	--	50000	--	--	--	--	--	.0	--
06...	0832	1.00	375	27.0	--	--	--	--	--	--
06...	0841	1.00	2700	22.0	--	--	--	--	--	--
06...	0915	--	50000	--	--	--	--	--	.0	--
06...	1002	1.00	375	28.0	--	--	--	--	--	--
06...	1011	1.00	2700	26.0	--	--	--	--	--	--
06...	1015	--	50000	--	--	--	--	--	.0	--
06...	1122	1.00	375	30.0	--	--	--	--	--	--
06...	1131	1.00	2700	23.0	--	--	--	--	--	--
06...	1135	--	50000	--	--	--	--	--	.0	--
06...	1335	--	50000	--	--	--	--	--	.0	--
06...	1342	1.00	375	31.0	--	--	--	--	--	--
06...	1354	1.00	2700	18.0	--	--	--	--	--	--
06...	1452	1.00	375	25.0	--	--	--	--	--	--
06...	1501	1.00	2700	19.0	--	--	--	--	--	--
06...	1503	--	50000	--	--	--	--	--	.0	--
06...	1645	1.00	375	36.0	--	--	--	--	--	--
06...	1655	--	50000	--	--	--	--	--	.0	--

APPENDIX A
 3R5039077012500 - POTOMAC RIVER AT GEISBORO POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARRON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION VITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
AUG 05...	---	---	---	---	---	---	---	---	---	---
05...	---	---	---	---	---	---	---	---	---	---
05...	---	---	---	---	---	---	---	---	---	---
05...	---	---	---	---	---	---	---	---	---	---
05...	.15	4.9	---	---	---	---	---	---	---	---
05...	.16	4.1	---	---	---	---	---	---	---	---
05...	---	---	---	---	---	---	---	---	---	---
05...	---	---	---	---	---	---	---	---	---	---
05...	.11	5.9	---	---	---	---	---	---	---	---
05...	.13	7.4	---	---	---	---	---	---	---	---
05...	---	---	---	---	---	---	---	---	---	---
05...	---	---	---	---	---	---	---	---	---	---
05...	.24	4.0	---	---	---	---	---	---	---	---
06...	.12	4.9	.92	.29	3.1	8.0	---	10300	444	15000
06...	---	---	---	---	---	---	---	---	---	---
06...	.13	5.0	---	---	---	---	---	---	---	---
06...	---	---	---	---	---	---	---	---	---	---
06...	.11	6.5	---	---	---	---	---	---	---	---
06...	---	---	---	---	---	---	---	---	---	---
06...	.15	5.1	---	---	---	---	---	---	---	---
06...	---	---	---	---	---	---	---	---	---	---
06...	.17	4.7	---	---	---	---	---	---	---	---
06...	.17	4.7	---	---	---	---	---	---	---	---
06...	---	---	---	---	---	---	---	---	---	---
06...	---	---	---	---	---	---	---	---	---	---
06...	---	---	---	---	---	---	---	---	---	---
06...	.12	6.2	---	---	---	---	---	---	---	---
06...	.14	7.2	---	---	---	---	---	---	---	---

385039077012500 - POTOMAC RIVER AT GEISBORO POINT ---Cont.
 APPENDIX A

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLING DEPTH (FEET)	SAMPLING DEPTH (M)	SAMPLE LOCATION	TRANS- PAR- ENCY (SECCHI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, (MG/L)	BIOCHEM CARBON. LAGTIME AT 20C (82135)
AUG 06...	1703	1.00	2700		31.0						
06...	1704	1.00	375		24.0	6.75		.500			
06...	1710		50000							.0	
06...	1716	1.00	2700		24.0	6.25		.670		.0	
06...	1755		50000								
06...	1801	1.00	2700		21.0						
06...	1807	1.00	375		26.0						
07...	0800		50000								
07...	0806	1.00	2700		23.0	6.00		.500		.0	
07...	1707	1.00	375			7.50		1.200			
07...	1711	1.00	2700		19.0	6.90		1.600			
07...	1715		50000								
08...	0640		50000								
08...	0647	1.00	375		24.0	7.50		1.000		.0	
08...	0651	1.00	2700		23.0	7.50		.670			
08...	1722	1.00	375		25.0	7.00		1.000			
08...	1726	1.00	2700		22.0	5.50		.250			
08...	1730		50000								
11...	1822	1.00	375		24.0	6.50					
11...	1830		50000								
11...	1836	1.00	2700		18.0	5.00		.500		.0	
13...	0743	1.00	375		21.0	5.00		.800	350		
13...	0757	1.00	2700		21.0	5.00		1.000	400		
13...	0800		50000								
13...	1755	1.00	375		24.0	7.50		1.500		.0	
13...	1800		50000								
13...	1802	1.00	2700		18.0	6.50		1.500		.0	
20...	0814	1.00	375		17.0	1.50		1.000			
20...	0921	1.00	2700		18.0	4.00		1.000	500		
20...	0825		50000								
20...	1843	1.00	375		24.0					.0	
20...	1850		50000								
20...	1856	1.00	2700		24.0					.0	
SEP 03...	1902	1.00	375		24.0	7.00		.600	63.0		
03...	1916	1.00	2700		22.0	5.50		.300	40.0		
03...	1920		50000								
15...	1402	1.00	375		24.0	7.00		.340	500	.0	
15...	1406	1.00	2700		22.0	6.00		.500	1500		
15...	1410		50000								

APPENDIX A
 385039077012500 - POTOMAC RIVER AT GEISBORD POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYSE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM. ULT. CARBON-- ACEDUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG, DAYS LAGTIME AT 20C (82135)	DEOXYSE NATION VITROG, K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG, ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY-- SENA-- TION CON-- STANT K1 TO BASE E (00325)	COLI-- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31616)	STREP-- TOCOCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO-- PLANK-- TON, TOTAL (CELLS PER ML) (60050)
AUG 06...	..	..	..	..	..	..	..	..	..	..
06...	..	..	..	..	..	..	..	..	..	..
06...	.22	7.2	9.0	.17	3.6	11	..	..	..	2000
06...	..	..	..	..	..	..	..	..	..	..
06...	.14	6.4	..	..	..	..	..	..	..	..
06...	..	..	..	..	..	..	..	..	..	..
06...	..	..	..	..	..	..	..	..	..	..
06...	.14	6.2	.90	.11	4.0	10	..	8400	2600	<52000
07...	..	..	..	..	..	..	..	..	..	..
07...	..	..	..	..	..	..	..	..	..	..
07...	..	..	..	..	..	..	..	..	..	..
07...	.17	8.2	.50	.17	6.5	15	..	..	..	<63000
08...	.14	5.2	.27	.30	3.4	9.6	..	13400	560	10000
08...	..	..	..	..	..	..	..	..	..	..
08...	..	..	..	..	..	..	..	..	..	..
08...	..	..	..	..	..	..	..	..	..	..
08...	..	..	..	..	..	..	..	..	..	..
08...	.21	9.1	7.5	.31	4.4	14	..	..	..	16000
11...	..	..	..	..	..	..	..	..	..	..
11...	.16	8.5	5.7	.30	3.4	12	..	..	..	..
11...	..	..	..	..	..	..	..	..	..	..
13...	..	..	..	..	..	..	..	..	..	..
13...	..	..	..	..	..	..	..	..	..	..
13...	.14	6.1	2.0	.15	4.0	10	..	6758	0	<21000
13...	..	..	..	..	..	..	..	..	..	..
13...	.18	6.1	11.3	.31	3.1	9.2	..	..	..	18000
13...	..	..	..	..	..	..	..	..	..	..
20...	..	..	..	..	..	..	..	..	..	..
20...	..	..	..	..	..	..	..	..	..	..
20...	.11	3.4	2.9	.16	3.2	6.6	..	12000	160	9000
20...	..	..	..	..	..	..	..	..	..	..
20...	.15	4.2	.02	.07	6.8	11	..	..	..	15000
20...	..	..	..	..	..	..	..	..	..	..
SEP 03...	..	..	..	..	..	..	..	..	..	..
03...	..	..	..	..	..	..	..	..	..	..
03...	.24	4.2	1.3	.13	3.6	7.9	..	5850	110	14000
15...	..	..	..	..	..	..	..	..	..	..
15...	..	..	..	..	..	..	..	..	..	..
15...	.19	4.5	6.7	.24	4.5	9.2	..	4250	0	<18000

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (-FEET)	SAMPLE LOC- ATION CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (SECCI DISK) (IN)	LIGHT DEPT- H TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPT- H TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM- CARBON, DAYS LAGTIME AT 20C (82135)
		(00003)	(00009)	(00077)	(00034)	(00198)	(00199)	(00200)	(00302)	(00302)
OCT	02...	1.00	375	24.0	9.00	---	1,500	1500	---	---
	1230	---	50000	---	---	---	---	---	0	0.00
	1236	1.00	2800	19.0	6.00	---	.420	500	---	---
	21...	1.00	375	17.0	3.90	---	1,000	46.0	---	---
	0755	---	375	---	---	---	---	---	0	0.00
NOV	1525	---	375	---	---	---	---	---	0	0.00
	1534	2.00	375	24.0	---	---	---	---	---	---
DEC	1622	1.00	375	36.0	---	---	---	---	---	---
	1632	1.00	2800	72.0	---	6,500	---	---	---	---
	1640	---	50000	---	---	---	---	---	0	0.00
	1645	---	50000	---	---	---	---	---	0	0.00
FEB	0837	3.00	375	36.0	6.00	---	---	450	---	---
	0840	---	375	---	---	---	---	---	0	0.00
MAR	1030	---	375	---	---	---	---	---	0	0.00
	1036	2.00	375	27.0	---	---	---	---	---	---
APR	0717	2.00	375	9.0	2.50	---	---	---	---	---
	0725	---	375	---	---	---	---	---	---	---
	0725	---	375	---	---	---	---	---	0	0.00
	0734	2.00	375	23.0	---	2,900	---	105	---	---
JUN	0845	---	375	---	---	---	---	---	0	0.00
	0859	2.00	375	24.0	6.50	---	---	1100	---	---
JUL	2255	---	50000	---	---	---	---	---	0	0.00
	0841	1.00	375	36.0	---	---	---	---	0	0.00
	0855	---	50000	---	---	---	---	---	0	0.00
	2034	1.00	375	30.0	---	---	---	---	0	0.00
	2045	---	50000	---	---	---	---	---	0	0.00
	2054	1.00	2800	19.0	---	---	---	---	0	0.00
	0739	1.00	375	30.0	---	---	---	---	0	0.00
	0745	---	50000	---	---	---	---	---	0	0.00
	0749	1.00	2800	30.0	---	---	---	---	0	0.00
	1834	1.00	375	28.0	6.92	---	---	260	---	---
	1845	---	50000	---	---	---	---	---	0	0.00
	1849	1.00	2800	30.0	6.00	---	---	400	---	---
	0804	1.00	375	38.0	7.00	---	.500	200	---	---
	0811	1.00	2800	30.0	5.50	---	.330	140	---	---
	0815	---	50000	---	---	---	---	---	0	0.00

APPENDIX A
 385039077012500 - POTOMAC RIVER AT GEISBORO POINT ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLING DEPTH (FEET)	SAMPLING DEPTH (M)	SAMPLE LOCATION	TRANS- PAR- ENCY (SECCHI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMMEDIATE (MG/L)	OXYGEN DEMAND, BIOCHEM. CARBON. DAYS LAGTIME AT 20C (82135)
JUL 28...	1330	2.00	375							.0	.00
JUL 28...	1344	2.00	375		25.0					.0	.00
AUG 06...	1115	1.00	50000							.0	.00
AUG 06...	1124	1.00	375		21.0	5.50		.750	150		.00
AUG 06...	1126	1.00	2800			4.50		.500	120		.00
AUG 18...	1620	1.50	375		24.0						.00
AUG 18...	1627	1.50	375								.00
AUG 24...	1915	1.00	50000								.00
AUG 25...	0854	1.00	375		19.0	4.90		4.400	600		.00
AUG 25...	0900	1.00	50000								.00
AUG 25...	0907	1.00	2800		18.0	4.40		4.900	800		.00
AUG 25...	1914	1.00	375		24.0	5.00		.500	34.0		.00
AUG 25...	1925	1.00	50000								.00
AUG 25...	1929	1.00	2800		23.0	4.80		.500	20.0		.00
AUG 26...	0750	1.00	375								.00
AUG 26...	0834	1.00	375		21.0	4.75		.750	600		.00
AUG 26...	0844	1.00	2800		16.0	4.55		.550	650		.00
AUG 26...	0845	1.00	50000								.00
AUG 26...	1919	1.00	375		23.0	5.25		.650	320		.00
AUG 26...	1825	1.00	50000								.00
AUG 26...	1832	1.00	2800		22.0	4.40		.500	220		.00

APPENDIX A
 385039077012500 - POTOMAC RIVER AT GEISBORO POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM JLT. NITROG. BASE E PER DAY AT 20C (82135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. JLT. NITROG. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GEVA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0-45 UM-MF (COLS, / 100 ML) (31616)	STREP- TOCOCCEI FECAL, KF AGAR (COLS, PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUL 28...	.06	5.5	3.1	1.4	7.0	--	--	--	>10000
JUL 28...	--	--	--	--	--	--	--	--	--
AUG 06...	.15	7.3	--	.00	7.3	--	770	395	48000
AUG 06...	--	--	--	--	--	--	--	--	--
AUG 06...	--	--	--	--	--	--	--	--	--
AUG 14...	.14	4.8	--	.00	4.8	--	--	--	29000
AUG 18...	--	--	--	--	--	--	--	--	--
AUG 24...	.21	4.3	9.5	2.5	7.0	--	--	--	>9000
AUG 25...	--	--	--	--	--	--	--	--	--
AUG 25...	.17	4.8	3.0	3.5	8.3	--	205	4550	>12000
AUG 25...	--	--	--	--	--	--	--	--	--
AUG 25...	--	--	--	--	--	--	--	--	--
AUG 25...	.21	4.7	2.5	3.4	8.1	--	165	195	>15000
AUG 25...	--	--	--	--	--	--	--	--	--
AUG 26...	--	--	--	--	--	--	962	468	--
AUG 26...	--	--	--	--	--	--	--	--	--
AUG 26...	.22	4.9	4.5	2.2	7.1	--	--	--	>19000
AUG 26...	--	--	--	--	--	--	--	--	--
AUG 26...	.19	6.1	3.5	3.8	10	--	--	--	>22000
AUG 26...	--	--	--	--	--	--	--	--	--

APPENDIX A

384852077020500 - POTOMAC RIVER AT MARSURY POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAMPLE LOCATION CROSS SECTION (FT FWD BANK) L (00003) (00009)	TRANS- PAR- ENCY (SECTH DISK) (IN) (00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET) (00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET) (00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET) (00199)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
AUG	0930	-- 50000	--	--	--	--	--	.00	.0
13....	0800	-- 50000	--	--	--	--	--	.00	.0
20....	0740	-- 50000	--	--	--	--	--	.00	.0
22....	0715	-- 50000	--	--	--	--	--	.00	.0
24....	0745	-- 50000	--	--	--	--	--	.00	.0
27....	0720	-- 50000	--	--	--	--	--	.00	.0
29....								.00	.0

DATE	TIME	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (42133)	DEOXYGE NATION NITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. DAYS LAGTIME AT 20C (42135)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	OXYGEN DEMAND, UNINHIB ULT. (MG/L) (00321)	DEOXY- SEVA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCCOCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
AUG	12	.12	.05	.00	8.1	4.4	--	--	--	--
13....	.22	.22	.27	5.8	13	6.7	--	--	--	<57000
20....	.17	.17	.33	5.7	11	4.4	--	--	--	--
22....	.16	.16	.25	4.4	10	5.4	--	--	--	<43000
24....	.21	.21	.39	5.9	9.4	5.7	--	--	--	<45000
27....	.14	.14	.20	7.5	5.7	2.7	--	--	--	--
29....										

APPENDIX A
 384852077020500 - POTOMAC RIVER AT WARRIURY POINT --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAM- PLING DEPTH (FT FM L BANK)	SAMPLE LOC- ATION, CROSS SECTION	TRANS- PAR- ENCY (SECCHI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM. CARBON, LAGTIME AT 20C (#2135)
		(00003)	(00009)	(00077)	(00034)	(00198)	(00199)	(00200)	(00302)		
JUN											
17...	1810	3.00	2100	24.0	--	--	--	--	--	--	--
17...	1825	2.00	1200	24.0	--	--	--	--	--	--	--
27...	1500	19.00	50000	--	--	--	--	--	--	0.00	--
27...	1502	2.00	1200	24.0	--	--	--	--	--	--	--
27...	1507	3.00	2100	23.0	--	--	--	--	--	--	--
JUL											
04...	1642	2.00	1200	31.0	--	--	--	--	--	--	--
04...	1657	3.00	2100	24.0	--	--	--	--	--	--	--
04...	1700	--	50000	--	--	--	--	--	--	0.3	--
06...	0935	2.00	365	18.0	--	--	--	--	--	--	--
06...	0947	2.00	1200	24.0	--	--	--	--	--	--	--
06...	1012	3.00	2100	23.0	--	--	--	--	--	--	--
06...	1026	2.00	2150	22.0	--	--	--	--	--	--	--
06...	1040	2.00	365	19.0	--	--	--	--	--	--	--
06...	1052	2.00	1200	22.0	--	--	--	--	--	--	--
06...	1112	3.00	2100	23.0	--	--	--	--	--	--	--
06...	1131	2.00	2150	22.0	--	--	--	--	--	--	--
06...	1140	2.00	365	19.0	--	--	--	--	--	--	--
06...	1147	2.00	1200	28.0	--	--	--	--	--	--	--
06...	1202	3.00	2100	26.0	--	--	--	--	--	--	--
06...	1231	2.00	2150	23.0	--	--	--	--	--	--	--
06...	1240	2.00	365	13.0	--	--	--	--	--	--	--
06...	1252	2.00	1200	23.0	--	--	--	--	--	--	--
06...	1307	3.00	2100	24.0	--	--	--	--	--	--	--
06...	1321	2.00	2150	23.0	--	--	--	--	--	--	--
06...	1445	2.00	365	21.0	--	--	--	--	--	--	--
06...	1502	2.00	1200	26.0	--	--	--	--	--	--	--
06...	1517	3.00	2100	28.0	--	--	--	--	--	--	--
06...	1526	2.00	2150	23.0	--	--	--	--	--	--	--
06...	1540	2.00	365	18.0	--	--	--	--	--	--	--
06...	1552	2.00	1200	29.0	--	--	--	--	--	--	--
06...	1507	3.00	2100	23.0	--	--	--	--	--	--	--
06...	1616	2.00	2150	19.0	--	--	--	--	--	0.6	--
06...	1630	--	50000	--	--	--	--	--	--	--	--
06...	1720	2.00	365	25.0	--	--	--	--	--	--	--
06...	1742	2.00	1200	25.0	--	--	--	--	--	--	--
06...	1757	3.00	2100	23.0	--	--	--	--	--	--	--
06...	1810	2.00	2150	20.0	--	--	--	--	--	--	--
06...	1815	2.00	365	23.0	--	--	--	--	--	--	--
06...	1832	2.00	1200	23.0	--	--	--	--	--	--	--

APPENDIX A
 384852077020500 - POTOMAC RIVER AT MARBURY POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	TRANS- PAR- ENCY (SECCI DISK) (IN)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	(00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L)	(00302)
JUL																		
06...	1942	3.00		2100		24.0												
06...	1951	2.00		2150		20.0												
06...	1935	2.00		355		21.0												
06...	1952	2.00		1200		24.0												
06...	2002	3.00		2100		16.0												
06...	2016	2.00		2150		19.0												
06...	2120	---		50000		---												
09...	1507	2.00		1200		18.0												
09...	1512	3.00		2100		24.0												
09...	1515	---		50000		---												
16...	1429	1.00		1200		24.0												
16...	1435	---		50000		---												
23...	0728	1.00		1200		22.0												
23...	0735	---		50000		---												
23...	0738	1.00		2100		17.0												
30...	0845	1.00		1200		24.0		9.00				1.000						
30...	0850	---		50000		---												
30...	0855	1.00		2100		26.0		10.0				2.000						
30...	1802	1.00		1200		18.0		5.50				.500						
30...	1810	---		50000		---												
30...	1813	1.00		2100		22.0		7.00				.500						
AUG																		
04...	0702	1.00		1200		19.0		3.00				1.000						
04...	0710	---		50000		---												
04...	0713	1.00		2100		18.0		2.70				.900						
04...	1740	17.0		1200		---							250					
04...	1742	3.00		1200		22.0		6.50				.250	250					
04...	1750	20.0		2100		---							175					
04...	1752	3.00		2100		16.0		6.50				.580	175					
05...	0632	1.00		1200		23.0												
05...	0635	---		50000		---												
05...	0642	1.00		1200		24.0												
05...	0702	1.00		2100		25.0												
05...	0822	1.00		1200		23.0												
05...	0835	---		50000		---												
05...	0942	1.00		1200		19.0												
05...	1002	1.00		2100		17.0												
05...	1102	1.00		1200		23.0												
05...	1105	---		50000		---												
05...	1112	1.00		2100		24.0												

384852077020500 - POTOMAC RIVER AT MARBURY POINT --Cont.
 APPENDIX A

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYG NATION CARRON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG, KI TO BASE E LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG, KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG, KI TO BASE E ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUL										
06....	--	--	--	--	--	--	--	--	--	--
06....	--	--	--	--	--	--	--	--	--	--
06....	--	--	--	--	--	--	--	--	--	--
06....	--	--	--	--	--	--	--	--	--	--
06....	--	--	--	--	--	--	--	--	--	--
06....	.24	5.5	7.4	--	5.5	11	--	--	--	--
09....	--	--	--	--	--	--	--	--	--	--
09....	--	--	--	--	--	--	--	--	--	--
09....	.18	8.3	9.5	.34	5.2	13	--	--	--	--
16....	.14	7.9	8.1	.27	5.2	13	--	--	--	--
23....	.12	7.4	9.2	.43	7.0	14	--	22100	1250	10000
23....	--	--	--	--	--	--	--	--	--	--
30....	--	--	--	--	--	--	--	15500	640	9400
30....	.13	5.0	9.0	.44	6.1	11	--	--	--	--
30....	--	--	--	--	--	--	--	--	--	--
30....	.13	6.5	5.2	.53	11	18	--	--	--	34000
30....	--	--	--	--	--	--	--	--	--	--
AUG										
04....	--	--	--	--	--	9.6	--	10300	480	10000
04....	--	--	--	--	--	--	--	--	--	--
04....	--	--	--	--	--	--	--	--	--	--
04....	--	--	--	--	--	--	--	--	--	--
04....	--	--	--	--	--	--	--	--	--	--
04....	--	--	--	--	--	--	--	--	--	--
05....	--	--	--	--	--	--	19	10400	2241	10000
05....	--	--	--	--	--	--	--	--	--	--
05....	--	--	--	--	--	--	--	--	--	--
05....	.11	6.0	--	--	--	--	--	--	--	--
05....	--	--	--	--	--	--	--	--	--	--
05....	--	--	--	--	--	--	--	--	--	--
05....	--	--	--	--	--	--	--	--	--	--
05....	.12	6.4	--	--	--	--	--	--	--	--
05....	--	--	--	--	--	--	--	--	--	--
05....	--	--	--	--	--	--	--	--	--	--

APPENDIX A
 3R4852077020500 - POTOMAC RIVER AT MARRIERY POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAM- PLING DEPTH (FT FM L RANK)	(00003) (00009)	SAMPLE LOC- ATION, CRSS SECTION	(SECCHI DISK)	TRANS- PAR- ENCY	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	(00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, IMME- DIATE (MG/L)	(00302)	OXYGEN DEMAND, BIOCHEM. CARBON, DAYS LAGTIME AT 20C (82135)
AUG 05...	1225	1.00	1200	---	50000	26.0	---	---	---	---	---	---	---	---	---	---	---	---	---
05...	1227	1.00	2100	---	50000	24.0	---	---	---	---	---	---	---	---	---	---	---	---	---
05...	1343	1.00	1200	---	50000	23.0	---	---	---	---	---	---	---	---	---	---	---	---	---
05...	1347	1.00	1200	---	50000	29.0	---	---	---	---	---	---	---	---	---	---	---	---	---
05...	1354	1.00	1200	---	50000	23.0	---	---	---	---	---	---	---	---	---	---	---	---	---
05...	1505	1.00	1200	---	50000	23.0	---	---	---	---	---	---	---	---	---	---	---	---	---
05...	1512	1.00	2100	---	50000	23.0	---	---	---	---	---	---	---	---	---	---	---	---	---
05...	1520	1.00	1200	---	50000	24.0	---	---	---	---	---	---	---	---	---	---	---	---	---
05...	1632	1.00	1200	---	50000	24.0	---	---	---	---	---	---	---	---	---	---	---	---	---
05...	1642	1.00	2100	---	50000	24.0	---	---	---	---	---	---	---	---	---	---	---	---	---
05...	1645	1.00	1200	---	50000	24.0	---	---	---	---	---	---	---	---	---	---	---	---	---
05...	1702	1.00	1200	---	50000	24.0	---	---	---	---	---	---	---	---	---	---	---	---	---
05...	1732	1.00	2100	---	50000	22.0	---	---	---	---	---	---	---	---	---	---	---	---	---
05...	1810	1.00	1200	---	50000	24.0	---	---	---	---	---	---	---	---	---	---	---	---	---
05...	1825	1.00	1200	---	50000	24.0	---	---	---	---	---	---	---	---	---	---	---	---	---
05...	1832	1.00	2100	---	50000	24.0	---	---	---	---	---	---	---	---	---	---	---	---	---
05...	1842	1.00	2100	---	50000	24.0	---	---	---	---	---	---	---	---	---	---	---	---	---
06...	0632	1.00	1200	---	50000	29.0	---	---	---	---	---	---	---	---	---	---	---	---	---
06...	0637	1.00	1200	---	50000	26.0	---	---	---	---	---	---	---	---	---	---	---	---	---
06...	0640	1.00	1200	---	50000	20.0	---	---	---	---	---	---	---	---	---	---	---	---	---
06...	0643	1.00	2100	---	50000	23.0	---	---	---	---	---	---	---	---	---	---	---	---	---
06...	0647	1.00	2100	---	50000	22.0	---	---	---	---	---	---	---	---	---	---	---	---	---
06...	0802	1.00	1200	---	50000	25.0	---	---	---	---	---	---	---	---	---	---	---	---	---
06...	0812	1.00	1200	---	50000	25.0	---	---	---	---	---	---	---	---	---	---	---	---	---
06...	0815	1.00	1200	---	50000	25.0	---	---	---	---	---	---	---	---	---	---	---	---	---
06...	0932	1.00	1200	---	50000	21.0	---	---	---	---	---	---	---	---	---	---	---	---	---
06...	0940	1.00	2100	---	50000	24.0	---	---	---	---	---	---	---	---	---	---	---	---	---
06...	0952	1.00	2100	---	50000	24.0	---	---	---	---	---	---	---	---	---	---	---	---	---
06...	1045	1.00	1200	---	50000	22.0	---	---	---	---	---	---	---	---	---	---	---	---	---
06...	1102	1.00	1200	---	50000	22.0	---	---	---	---	---	---	---	---	---	---	---	---	---
06...	1110	1.00	2100	---	50000	21.0	---	---	---	---	---	---	---	---	---	---	---	---	---
06...	1113	1.00	1200	---	50000	25.0	---	---	---	---	---	---	---	---	---	---	---	---	---
06...	1202	1.00	1200	---	50000	22.0	---	---	---	---	---	---	---	---	---	---	---	---	---
06...	1302	1.00	2100	---	50000	22.0	---	---	---	---	---	---	---	---	---	---	---	---	---
06...	1308	1.00	1200	---	50000	22.0	---	---	---	---	---	---	---	---	---	---	---	---	---
06...	1432	1.00	1200	---	50000	31.0	---	---	---	---	---	---	---	---	---	---	---	---	---
06...	1440	1.00	2100	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06...	1447	1.00	2100	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---

APPENDIX A
 384852077020500 - POTOMAC RIVER AT MARRURY POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	TRANS- PAR- ENCY (DISK IN)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	(00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, IMME- DIATE (MG/L)	(00302)	OXYGEN DEMAND, BIOCHEM, CARBON. DAYS LAGTIME AT 20C (82135)
AUG	06...	1.00	1200	21.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1612	1.00	2100	26.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	06...	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1627	1.00	1200	24.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	06...	.10	1200	5.50	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1648	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	06...	1.00	2100	24.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1653	1.00	1200	24.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	06...	1.00	2100	22.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1722	1.00	1200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	06...	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1732	1.00	1200	7.75	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	06...	1.00	2100	30.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1740	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	07...	1.00	1200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	0727	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	0740	1.00	2100	30.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	07...	1.00	1200	19.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	0743	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	07...	1.00	1200	8.25	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1642	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	07...	1.00	2100	23.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1552	1.00	1200	6.50	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	07...	1.00	2100	8.50	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	0622	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	08...	1.00	1200	7.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	0630	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	08...	1.00	2100	21.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	0632	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	08...	1.00	1200	5.90	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1702	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	08...	1.00	2100	25.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1715	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	08...	1.00	1200	6.75	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1807	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	11...	1.00	2100	6.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1718	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	08...	1.00	1200	7.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	0632	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	11...	1.00	2100	24.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1815	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	08...	1.00	1200	5.75	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1818	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	13...	1.00	2100	24.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	0713	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	13...	1.00	1200	6.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	0728	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	13...	1.00	2100	7.08	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	0730	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	13...	1.00	1200	3.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1724	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	13...	1.00	2100	18.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1730	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	13...	1.00	1200	16.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1735	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	20...	1.00	2100	14.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	0743	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	0800	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	20...	1.00	1200	2.50	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	0904	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	20...	1.00	2100	2.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1804	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	20...	1.00	1200	1.50	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1810	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	20...	1.00	2100	23.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1815	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SEP	03...	1.00	1200	5.50	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	03...	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1830	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

APPENDIX A
 384852077020500 - POTOMAC RIVER AT MARRURY POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARRON- ACEOUS (00320)	OXYGEN DEMAND, BIOCHEM NITRO3, NITRO3, DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (00321)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (00319)	DEOXY- GEVA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCT FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
AUG 06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	.14	5.7	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	.16	5.5	1.2	.16	6.8	12	--	--	--	10000
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	.15	5.5	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	.14	8.4	1.4	.67	3.1	11	--	20700	770	<30000
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	.17	6.9	1.0	.41	4.5	11	--	--	--	<39000
07...	--	--	--	--	--	--	--	--	--	--
08...	.16	6.1	1.5	--	4.3	10	--	6500	1800	9600
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	.20	6.5	1.1	.22	6.0	13	--	--	--	14000
08...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	.14	12	5.1	--	3.2	15	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	.17	7.2	3.0	--	5.8	13	--	16500	0	<16000
13...	--	--	--	--	--	--	--	--	--	--
13...	.15	8.2	4.6	.24	6.2	14	--	--	--	23000
13...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	.13	5.9	4.5	.84	2.1	8.0	--	--	--	13000
20...	--	--	--	--	--	--	--	--	--	--
20...	.15	5.0	2.2	.21	7.4	12	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
SEP 03...	.21	4.9	3.9	.38	5.6	10	--	5300	--	24000

384852077020500 - POTOMAC RIVER AT MARRURY POINT --Cont.
 APPENDIX A

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	TRANS- PAR- ENCY (SECCI DISK) (JN)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C	(82135)
SEP 03...	1933	1.00	2100			16.0		5.00		.200					
15...	1418	1.00	1200			24.0		6.00		.250					
15...	1430		50000											.00	
15...	1437	1.00	2100			18.0		5.00		.420					

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	TRANS- PAR- ENCY (SECCI DISK) (JN)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C	(82135)
SEP 03...	1933	1.00	2100			16.0		5.00		.200					
15...	1418	1.00	1200			24.0		6.00		.250					
15...	1430		50000											.00	
15...	1437	1.00	2100			18.0		5.00		.420					

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	TRANS- PAR- ENCY (SECCI DISK) (JN)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C	(82135)
SEP 03...	1933	1.00	2100			16.0		5.00		.200					
15...	1418	1.00	1200			24.0		6.00		.250					
15...	1430		50000											.00	
15...	1437	1.00	2100			18.0		5.00		.420					

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	TRANS- PAR- ENCY (SECCI DISK) (JN)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C	(82135)
SEP 03...	1933	1.00	2100			16.0		5.00		.200					
15...	1418	1.00	1200			24.0		6.00		.250					
15...	1430		50000											.00	
15...	1437	1.00	2100			18.0		5.00		.420					

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	TRANS- PAR- ENCY (SECCI DISK) (JN)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C	(82135)
SEP 03...	1933	1.00	2100			16.0		5.00		.200					
15...	1418	1.00	1200			24.0		6.00		.250					
15...	1430		50000											.00	
15...	1437	1.00	2100			18.0		5.00		.420					

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	TRANS- PAR- ENCY (SECCI DISK) (JN)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C	(82135)
SEP 03...	1933	1.00	2100			16.0		5.00		.200					
15...	1418	1.00	1200			24.0		6.00		.250					
15...	1430		50000											.00	
15...	1437	1.00	2100			18.0		5.00		.420					

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	TRANS- PAR- ENCY (SECCI DISK) (JN)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C	(82135)
SEP 03...	1933	1.00	2100			16.0		5.00		.200					
15...	1418	1.00	1200			24.0		6.00		.250					
15...	1430		50000											.00	
15...	1437	1.00	2100			18.0		5.00		.420					

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	TRANS- PAR- ENCY (SECCI DISK) (JN)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C	(82135)
SEP 03...	1933	1.00	2100			16.0		5.00		.200					
15...	1418	1.00	1200			24.0		6.00		.250					
15...	1430		50000											.00	
15...	1437	1.00	2100			18.0		5.00		.420					

APPENDIX A
 384852077020500 - POTOMAC RIVER AT MARBURY POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLING DEPTH (FEET)	SAMPLE LOCATION	TRANS-PAR-ENCY (SECCHI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCIDENT. 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMMEDIATE (MG/L)	OXYGEN DEMAND, BIOCHEMICAL CARBON LAGTIME AT 20C (HOURS)
		(00003)	(00009)	(00077)	(00198)	(00199)	(00200)	(00302)	(00305)	(00315)
OCT	1257	1.00	1200	26.0	9.50	--	.670	580	--	--
	02...	--	50000	--	--	--	--	--	.00	--
	1315	1.00	2100	26.0	8.00	--	.670	650	--	--
	02...	1.00	2100	28.0	3.20	--	.100	210	--	--
	0813	1.00	1200	--	--	--	--	--	.00	--
	0825	--	50000	--	--	--	--	--	--	--
	21...	1.00	2100	--	6.80	--	--	230	--	--
NOV	0828	1.00	2100	--	--	--	--	--	--	--
	1457	2.00	1200	23.0	7.80	--	--	200	--	--
	18...	2.00	2100	29.0	7.90	--	--	160	--	--
	1507	--	50000	--	--	--	--	--	.00	--
	1515	1.00	1200	29.0	9.50	--	--	50.0	--	--
DEC	1544	--	50000	--	--	--	--	--	.7	1.4
	16...	--	1200	--	--	--	--	--	.00	--
	1555	1.00	2100	30.0	9.50	--	--	20.0	--	--
	16...	3.00	1200	48.0	11.0	--	--	450	--	--
FEB	0852	--	1200	--	--	--	--	--	.00	--
	04...	2.00	1200	24.0	--	--	--	--	.00	--
MAR	1015	2.00	1200	12.0	4.10	--	--	1650	--	--
	04...	--	1200	--	--	--	--	--	--	--
	1022	--	50000	--	--	--	--	--	.00	--
APR	0732	1.00	1200	30.0	--	--	--	--	.00	--
	15...	--	50000	--	--	--	--	--	.00	--
	0735	1.00	2100	34.0	--	--	--	--	.00	--
JUL	2220	1.00	1200	21.0	--	--	--	--	.00	--
	08...	--	50000	--	--	--	--	--	.00	--
	0818	1.00	2100	34.0	--	--	--	--	.00	--
	20...	1.00	1200	30.0	--	--	--	--	.00	--
	0825	1.00	2100	30.0	--	--	--	--	.00	--
	20...	1.00	1200	34.0	--	--	--	--	.00	--
	0828	--	50000	--	--	--	--	--	.00	--
	1948	1.00	2100	34.0	--	--	--	--	.00	--
	20...	1.00	1200	30.0	--	--	--	--	.00	--
	2000	1.00	2100	30.0	--	--	--	--	.00	--
	20...	1.00	1200	30.0	--	--	--	--	.00	--
	0716	1.00	2100	30.0	--	--	--	--	.00	--
	21...	1.00	1200	30.0	--	--	--	--	.00	--
	0722	--	50000	--	--	--	--	--	.00	--
	21...	1.00	2100	24.0	5.92	--	--	550	--	--
	0730	1.00	1200	24.0	--	--	--	--	.00	--
	1753	--	50000	--	--	--	--	--	.00	--
	21...	1.00	2100	24.0	5.50	--	--	550	--	--
	1800	1.00	1200	30.0	6.50	--	.500	250	--	--
	21...	1.00	2100	30.0	6.00	--	.330	300	--	--
	0738	--	50000	--	--	--	--	--	.00	--
	22...	1.00	1200	18.0	4.75	--	.250	150	--	--
	0747	1.00	2100	--	--	--	--	--	.00	--
	22...	1.00	1200	--	--	--	--	--	.00	--
AUG	0750	1.00	2100	--	--	--	--	--	.00	--
	06...	1.00	1200	18.0	4.75	--	.250	150	--	--
	06...	--	50000	--	--	--	--	--	.00	--

APPENDIX A
384852077020500 - POTOMAC RIVER AT MARRIURY POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE- NATION CARBON KI TO	OXYGEN DEMAND, BIOCHEM ULT.	OXYGEN DEMAND, BIOCHEM DAYS LAGTIME AT 20C.	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C.	OXYGEN DEMAND, BIOCHEM NITROG. KI TO BASE E PER DAY AT 20C.	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L)	DEOXY- GENA- TION CON- STANT KI TO BASE E	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCI FECAL, KF AGAR (COLS. PER 100 ML)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)
	(82133)	(00320)	(82135)	(82132)	(00321)	(00319)	(00325)	(31616)	(00325)	(31616)	(31673)	(60050)
OCT 02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	.14	4.1	2.4	.69	7.7	12	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	8200
21...	.14	3.5	6.0	.53	6.3	9.8	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	.17	4.9	5.6	.17	3.9	9.8	--	17250	--	3950	--	3300
DEC 16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	.12	3.9	--	.00	.00	3.9	--	5100	--	460	--	2000
16...	.11	2.1	2.8	.10	2.5	4.6	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	.09	4.1	3.2	.24	2.2	6.3	--	1060	--	447	--	--
MAR 04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	.11	2.3	2.8	.17	1.1	3.5	--	360	--	170	--	<4500
04...	--	--	--	--	--	--	--	--	--	--	--	--
APR 15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	2400	800	--
JUL 08...	.15	4.2	5.1	.15	2.2	6.4	--	--	--	--	--	>18000
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	.27	4.5	7.4	.19	4.9	9.4	--	875	--	3460	--	>7200
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	.21	4.2	3.9	.06	7.5	12	--	--	--	--	--	>20000
20...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	.17	4.5	5.3	.23	2.2	6.8	--	4200	--	322	--	>15000
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	.17	7.0	5.7	.11	3.2	10	--	--	--	--	--	>22000
21...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	.17	5.9	5.5	.19	3.9	9.7	--	0	--	410	--	>16000
22...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 06...	--	6.7	1.0	.21	3.6	10	--	315	--	50	--	43000
06...	.15	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLING DEPTH (FEET)	SAMPLING DEPTH (M)	SAMPLE LOCATION	TRANS- PAR- ENCY (SECCHI DISK) (IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCIDENCE 400-700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON DAYS LAGTIME AT 20C (MG/L)	OXYGEN DEMAND, IMMEDIATE DIATE (MG/L)
AUG 18...	1559	1.60	1200	---	24.0	---	---	---	---	---	---
18...	1600	---	50000	---	---	---	---	---	---	---	---
24...	1830	---	50000	---	---	---	---	---	---	---	---
24...	1834	1.00	1200	---	27.0	---	---	---	---	---	---
25...	0818	1.00	1200	---	19.0	4.10	---	450	---	---	---
25...	0820	---	50000	---	---	---	---	---	---	---	---
25...	0827	1.00	2100	---	22.0	5.33	---	450	---	---	---
25...	1848	1.00	1200	---	23.0	3.80	---	130	---	---	---
25...	1857	1.00	2100	---	22.0	3.50	---	70.0	---	---	---
25...	1900	---	50000	---	---	---	---	---	---	---	---
26...	0805	1.00	1200	---	18.0	5.50	---	260	---	---	---
26...	0813	1.00	2100	---	19.0	4.90	---	350	---	---	---
26...	0815	---	50000	---	---	---	---	---	---	---	---
26...	1758	1.00	1200	---	17.0	4.00	---	320	---	---	---
26...	1800	---	50000	---	---	---	---	---	---	---	---
26...	1807	1.00	2100	---	20.0	4.00	---	370	---	---	---

DATE	TIME	DEOXYGENATION CAPRON KI TO BASE E PER DAY AT 20C (MG/L)	OXYGEN DEMAND, BIOCHEM ULT. (MG/L)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L)	OXYGEN DEMAND, UNINHIB ULT. (MG/L)	DEOXYGENATION STANT KI TO BASE E (00325)	COLIFORM, FECAL 0.45 UM-4F (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	PHYTOPLANKTON, TOTAL (CELLS PER ML)
AUG 18...	---	---	---	---	---	---	---	---	---
18...	.16	5.9	.00	.00	5.9	---	---	---	>19000
24...	.17	4.5	.30	3.7	8.2	---	---	---	>11000
24...	---	---	---	---	---	---	---	---	---
25...	---	---	---	---	---	---	---	---	---
25...	.18	5.2	.21	2.8	8.1	---	1450	90	>14000
25...	---	---	---	---	---	---	---	---	---
25...	---	---	---	---	---	---	---	---	---
25...	.18	6.7	.26	3.0	9.7	---	245	3800	>12000
26...	---	---	---	---	---	---	---	---	---
26...	---	---	---	---	---	---	---	---	---
26...	.15	7.1	.20	4.0	11	---	196	348	>12000
26...	.14	8.0	.09	2.9	11	---	---	---	>17000
26...	---	---	---	---	---	---	---	---	---

APPENDIX A

01652590 - POTOMAC R AT ALEXANDRIA, VA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SAMPLE LOCATION (00009)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET) (00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET) (00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET) (00199)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	OXYGEN DEMAND, IMMEDIATE (MG/L) (00302)	OXYGEN DEMAND, BIOCHEM CARBON. LAGTIME AT 20C (92135)
OCT										
	0950	3700							.00	.00
	1230	3700							.00	.00
	1835	3700							.00	.00
	2222	3700							.00	.00
	0925	3700							.00	.00
	1500	3700							.00	.00
NOV										
	1025	3700							.00	.00
	1621	3700							.00	.00
	0600	3700							.00	.00
	0600	3700							.00	.00
	0428	3700							.00	.00
	0800	3700							.00	.00
	0800	3700							.00	.00
	0800	3700							.00	.00
	1500	3700							.00	.00
	1500	3700							.00	.00
	0720	3700							.00	.00
	1349	3700							.00	.00
	0905	3700							.00	.00
	1143	3700							.00	.00
	0744	3700							.00	.00
	1106	3700							.00	.00
	1517	3700							.00	.00
	1849	3700							.00	.00
DEC										
	1309	3700							.00	.00
	1656	3700							.00	.00
	1100	3700							.00	.00
	1710	3700							.00	.00
	1900	3700							.00	.00
	0940	3700							.00	.00
	1500	3700							.00	.00
JAN										
	0940	3700							.00	.00
	1600	3700							.00	.00
	0900	3700							.00	.00
	1825	3700							.00	.00
	1335	3700							.00	.00
	1045	3700							.00	.00
	1730	3700							.00	.00
	0600	3700							.00	.00

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULIT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS, LAGTIME AT 20C (82135)	DEOXYGE NATION VITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROS, ULIT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, UM-4F (COLS./ 100 ML) (31616)	STREPTO- COCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
OCT										
23...	.16	8.8.	5.3	.61	9.5	18	--	--	--	--
23...	.16	8.4	3.3	.37	10	19	--	--	--	--
25...	.18	7.9	3.3	.72	11	19	--	--	--	--
25...	.14	8.1	4.4	.69	8.9	17	--	--	--	--
30...	.14	8.5	1.5	.14	7.7	16	--	--	--	--
30...	.15	9.3	5.1	.12	12	21	--	--	--	--
NOV										
01...	.13	9.0	3.5	.47	8.5	18	--	--	--	--
01...	.13	10	4.1	.70	6.7	17	--	--	--	--
06...	.16	8.4	.85	.30	8.6	17	--	--	--	--
06...	.19	8.2	.57	.24	9.1	17	--	--	--	--
08...	.13	7.0	3.8	.83	8.8	16	--	--	--	--
08...	.14	7.2	3.4	.43	8.2	16	--	--	--	--
08...	.18	5.9	3.5	1.2	7.8	14	--	--	--	--
08...	.15	6.3	3.4	.71	8.9	15	--	--	--	--
15...	.17	6.4	2.4	.47	9.8	16	--	--	--	--
15...	.13	6.7	2.5	.54	10	17	--	--	--	--
20...	.16	5.3	3.0	.24	6.8	12	--	--	--	--
20...	.07	7.8	3.2	.54	9.5	17	--	--	--	--
22...	.11	7.4	3.5	.45	8.3	16	--	--	--	--
22...	.09	8.8	4.3	1.1	7.7	17	--	--	--	--
27...	.15	7.0	3.4	.30	6.9	14	--	--	--	--
27...	.12	7.5	3.7	.44	6.4	10	--	--	--	--
29...	.15	8.7	3.7	.23	13	22	--	--	--	--
29...	.18	7.5	3.9	.29	8.7	16	--	--	--	--
DEC										
04...	.10	7.7	5.5	.72	4.2	12	--	--	--	--
04...	.16	7.3	5.6	.30	4.5	12	--	--	--	--
14...	.09	5.3	7.0	.93	.88	6.2	--	--	--	--
14...	.07	7.0	10.2	.43	2.7	9.6	--	--	--	--
19...	.20	3.8	5.9	.14	4.9	8.7	--	--	--	--
28...	.08	15	4.2	.51	2.2	18	--	--	--	--
28...	.16	8.0	9.7	.18	5.1	13	--	--	--	--
JAN										
04...	.11	10	9.4	.88	.90	11	--	--	--	--
04...	.15	7.7	4.7	.25	2.5	10	--	--	--	--
09...	.23	7.4	10.7	.55	3.5	11	--	--	--	--
09...	.21	9.2	11.3	.32	5.3	14	--	--	--	--
16...	.21	7.0	7.5	.13	5.8	13	--	--	--	--
22...	.22	3.5	5.7	.12	2.4	6.0	--	--	--	--
22...	.11	9.3	13.8	.66	9.9	11	--	--	--	--
23...	.20	6.5	5.0	.12	4.0	11	--	--	--	--

APPENDIX A
 - POTOMAC R AT ALEXANDRIA, VA. ---Cont.

01652590

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (SECCHI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME/ AT 20C (82135)	OXYGEN DEMAND, DIATE (MG/L) (00302)
JAN	23... 1000	3700							.00	.0
	23... 1500	3700							.00	.0
	24... 1020	3700							.00	.0
	24... 1450	3700							.00	.0
	25... 1440	3700							.00	.0
	26... 1310	3700							.00	.0
	27... 2320	3700							.00	.0
	29... 1200	3700							.00	.0
	29... 1540	3700							.00	.0
	29... 2150	3700							.00	.0
	31... 1030	3700							.00	.0
	31... 1340	3700							.00	.0
	31... 1730	3700							.00	.0
	31... 1950	3700							.00	.0
FFR										
	13... 1810	3700							.00	.0
	22... 0700	3700							.00	.0
	22... 1320	3700							.00	.0
	26... 1100	3700							.00	.0
	26... 1700	3700							.00	.0
	26... 2020	3700							.00	.0
	27... 0810	3700							.00	.0
	28... 1230	3700							.00	.0
MAR										
	01... 0700	3700							.00	.0
	01... 1020	3700							.00	.0
	01... 1710	3700							.00	.0
	05... 1400	3700							.00	.0
	05... 1705	3700							.00	.0
	06... 1510	3700							.00	.0
	06... 1820	3700							.00	.0
	07... 0640	3700							.00	.0
	08... 0740	3700							.00	.0
	08... 1130	3700							.00	.0
	09... 0840	3700							.00	.0
	12... 1030	3700							.00	.0
	15... 1230	3700							.00	.0
	15... 1820	3700							.00	.0
APR										
	09... 0950	3700							.00	.0
	11... 1600	50000							.00	.0
	11... 1930	50000							.00	.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	DEOXYGE- NATION CARBON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MS/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. LAGTIME AT 20C (92135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-YF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JAN										
23...	.15	11	1.7	.09	1.5	12	--	--	--	--
23...	.22	14	12.8	--	1.1	16	--	--	--	--
24...	.11	7.9	1.7	.34	1.7	9.5	--	--	--	--
24...	.13	6.0	.00	.17	2.5	8.6	--	--	--	--
25...	.15	9.0	4.1	.15	3.6	13	--	--	--	--
26...	.19	6.8	2.2	.10	4.4	11	--	--	--	--
27...	.19	3.8	4.0	.12	3.2	7.0	--	--	--	--
29...	.22	8.5	5.2	.18	3.4	12	--	--	--	--
29...	.16	4.5	2.3	.04	3.9	8.3	--	--	--	--
29...	.23	4.2	7.9	.21	2.0	6.2	--	--	--	--
31...	.18	3.8	5.7	.16	2.9	6.7	--	--	--	--
31...	.07	4.9	7.0	.25	1.4	6.2	--	--	--	--
31...	.20	4.1	8.5	.54	3.7	7.9	--	--	--	--
31...	.15	3.0	7.1	.29	2.0	5.0	--	--	--	--
FER										
13...	.21	2.1	7.1	.11	2.4	4.5	--	--	--	--
22...	.09	4.9	7.4	--	.52	5.5	--	--	--	--
22...	.17	2.3	10.4	.88	.70	3.0	--	--	--	--
26...	.15	11	3.0	.12	3.5	14	--	--	--	--
26...	.15	9.4	3.2	.11	3.4	13	--	--	--	--
26...	.21	8.9	5.7	.14	3.9	13	--	--	--	--
27...	.16	8.1	3.0	.25	3.3	11	--	--	--	--
28...	.08	8.0	4.4	.30	1.3	9.3	--	--	--	--
MAR										
01...	.06	5.2	4.9	.32	2.0	7.2	--	--	--	--
01...	.06	6.3	7.5	.47	2.5	8.8	--	--	--	--
01...	.06	5.0	3.4	.28	1.5	6.5	--	--	--	--
05...	.06	5.5	--	--	--	--	--	--	--	--
05...	.20	3.0	7.4	.28	2.4	5.4	--	--	--	--
06...	.11	3.0	--	--	--	--	--	--	--	--
06...	.11	3.0	8.2	.27	1.2	4.1	--	--	--	--
07...	.16	4.1	6.9	.13	1.6	5.7	--	--	--	--
08...	.15	3.5	2.9	.11	2.0	5.6	--	--	--	--
08...	.06	5.8	--	--	--	--	--	--	--	--
09...	.10	2.5	5.5	.24	1.7	4.2	--	--	--	--
12...	.12	2.3	5.5	.44	1.0	3.3	--	--	--	--
15...	.21	2.4	3.0	.12	2.5	5.0	--	--	--	--
15...	.23	1.8	5.0	.13	1.8	3.6	--	--	--	--
APR										
09...	.09	18	13.5	--	6.5	24	--	--	--	--
11...	.26	3.2	--	--	--	--	--	--	--	--
11...	.19	4.0	--	--	--	--	--	--	--	--

APPENDIX A
 POTOMAC R AT ALEXANDRIA, VA. --Cont.

0152590

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET) (00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET) (00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET) (00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S) (00200)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)
APR										
11...	2100	50000							.00	.00
11...	2330	50000							.00	.00
12...	0130	3700							.00	.00
12...	0330	3700							.00	.00
12...	0600	50000							.00	.00
12...	0830	50000							.00	.00
12...	1055	50000							.00	.00
12...	12...	3400							.00	.00
12...	1527	3700							.00	.00
12...	1815	450							.00	.00
12...	1840	50000							.00	.00
12...	1910	3400							.00	.00
12...	2110	50000							.00	.00
25...	1410	3400							.00	.00
MAY										
01...	0840	50000							.00	.00
01...	1220	50000							.00	.00
01...	1510	50000							.00	.00
09...	0740	50000							.00	.00
09...	1040	50000							.00	.00
09...	1320	3400							.00	.00
15...	1045	50000							.00	.00
15...	1355	50000							.00	.00
31...	0850	50000							.00	.00
JUN										
06...	1210	3400							.00	.00
11...	0910	3700							.00	.00
11...	1200	3700							.00	.00
12...	1005	3700							.00	.00
12...	1305	3700							.00	.00
12...	1640	3700							.00	.00
12...	1835	3700							.00	.00
13...	1015	30000							.00	.00
13...	1410	540							.00	.00
13...	1415	3.50	540						.00	.00
13...	1450	31.0	3040						.00	.00
13...	1455	7.60	3040						.00	.00
13...	1558	2.00	200						.00	.00
13...	1602	1.60	540	22.0					.00	.00
13...	1621	.50	2600	18.0					.00	.00
13...	1632	7.00	3040	22.0					.00	.00

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, RICHM. ULT. CARBON- ACEOUS (00320)	OXYGEN DEMAND, BIOCHEM. NITROG. LAGTIME AT 20C (82135)	DEOXYGE NATION VITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GEVA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
APR 11...	.12	6.2	7.7	.23	2.8	9.0	--	--	--	--
11...	.13	5.0	--	--	--	--	--	--	--	--
12...	.14	3.7	--	--	--	--	--	--	--	--
12...	.16	3.2	--	--	--	--	--	--	--	--
12...	.13	5.2	10.0	.33	3.3	8.6	--	--	--	--
12...	.11	4.8	7.2	.31	2.3	7.1	--	--	--	--
12...	.12	2.5	5.2	.14	3.5	6.0	--	--	--	--
12...	.15	1.3	4.1	.05	2.7	4.0	--	--	--	--
12...	.16	1.4	7.4	.16	2.4	3.9	--	--	--	--
12...	.10	7.8	9.2	.36	8.0	16	--	--	--	--
12...	.24	3.4	9.7	.35	4.5	7.9	--	--	--	--
12...	.14	4.0	9.2	.10	2.6	6.6	--	--	--	--
12...	.09	7.2	9.9	.46	5.9	13	--	--	--	--
25...	.19	6.2	9.5	.07	4.5	11	--	--	--	--
MAY 01...	.21	7.9	7.5	.52	6.9	15	--	--	--	--
01...	.27	9.1	11.0	.88	9.2	18	--	--	--	--
01...	.18	7.1	6.6	.17	3.4	11	--	--	--	--
09...	.14	7.1	8.7	.40	3.3	10	--	--	--	--
09...	.16	4.1	9.7	.25	4.4	8.5	--	--	--	--
09...	.18	3.9	5.2	.09	2.5	6.4	--	--	--	--
15...	.13	5.1	9.6	.14	4.0	9.1	--	--	--	--
15...	.16	4.9	7.5	.32	3.1	7.9	--	--	--	--
31...	.08	9.0	5.4	.48	3.4	12	--	--	--	--
JUN 06...	.19	3.7	10.8	.24	1.6	5.3	--	--	--	--
11...	.20	5.2	5.0	.18	4.4	9.5	--	--	--	--
11...	.15	4.0	4.4	.32	1.9	5.9	--	--	--	--
12...	.25	3.9	5.5	.18	4.3	8.2	--	--	--	--
12...	.20	3.4	3.8	.17	1.5	4.9	--	--	--	--
12...	.24	2.9	5.2	.10	3.3	6.3	--	--	--	--
12...	.20	2.0	3.9	.16	2.5	4.5	--	--	--	--
13...	.18	7.1	7.7	.27	8.7	16	--	--	--	--
13...	.10	7.5	9.0	--	1.8	9.3	--	--	--	--
13...	.18	7.0	12.5	--	12	19	--	--	--	--
13...	.17	2.1	3.1	.13	2.5	4.5	--	--	--	--
13...	.12	1.8	3.6	.12	2.9	4.6	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--

APPENDIX A
 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

01652590

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT F4, L RAVK) (00009)	TRANS- PAR- ENCY (DISK IN) (00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET) (00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET) (0019A)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET) (00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S) (00200)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (00302)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (02135)
JUN	1652	5.00	3400	22.0	--	--	--	--	--	--
13...	1801	1.60	540	--	--	--	--	--	00	00
13...	1920	23.6	3400	--	--	--	--	--	00	00
13...	1930	5.20	3400	--	--	--	--	--	00	00
14...	0203	--	30000	--	--	--	--	--	00	00
14...	0230	--	40000	--	--	--	--	--	00	00
14...	0245	--	3700	--	--	--	--	--	00	00
14...	0620	--	30000	--	--	--	--	--	00	00
14...	0837	1.80	200	24.0	--	--	--	--	--	--
14...	0847	1.90	540	18.0	--	--	--	--	--	--
14...	0900	2.30	1000	18.0	--	--	--	--	--	--
14...	0905	1.80	2200	12.0	--	--	--	--	--	--
14...	0917	.70	2600	18.0	--	--	--	--	--	--
14...	0932	6.80	3040	22.0	--	--	--	--	--	--
14...	0952	5.40	3400	18.0	--	--	--	--	00	00
14...	1018	--	30000	--	--	--	--	--	00	00
14...	1042	--	40000	--	--	--	--	--	00	00
14...	1200	--	30000	--	--	--	--	--	--	--
14...	1340	2.30	200	18.0	--	--	--	--	--	--
14...	1355	2.00	540	18.0	--	--	--	--	--	--
14...	1410	23.0	1000	24.0	--	--	--	--	--	--
14...	1420	1.70	2200	24.0	--	--	--	--	--	--
14...	1433	6.90	2500	24.0	--	--	--	--	--	--
14...	1442	6.90	3040	18.0	--	--	--	--	--	--
14...	1502	5.10	3400	24.0	--	--	--	--	--	--
14...	1530	--	30000	--	--	--	--	--	00	00
14...	1700	--	3700	--	--	--	--	--	00	00
14...	1742	2.00	200	22.0	--	--	--	--	--	--
14...	1758	1.50	540	14.0	--	--	--	--	--	--
14...	1825	2.30	2600	14.0	--	--	--	--	--	--
14...	1837	6.50	3040	18.0	--	--	--	--	--	--
14...	1852	4.80	3400	22.0	--	--	--	--	--	--
14...	2140	2.40	200	28.0	--	--	--	--	--	--
14...	2155	1.90	540	22.0	--	--	--	--	--	--
14...	2210	2.60	1000	22.0	--	--	--	--	--	--
14...	2221	3.60	2200	20.0	--	--	--	--	--	--
14...	2245	6.90	3040	23.0	--	--	--	--	--	--
14...	2307	5.60	3400	23.0	--	--	--	--	--	--
14...	2332	.70	2600	20.0	--	--	--	--	--	--

APPENDIX A
 POTOMAC R AT ALEXANDRIA, VA. --Cont.

01652590

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAMPLING DEPTH (FEET)	SAMPLE LOCATION	TRANS-PAR-ENCY (SECCHI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400-700NM	OXYGEN DEMAND, IMME-DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (82135)
		(00003)	(00009)	(00077)	(00034)	(00198)	(00199)	(00200)	(00302)	
JUN	2335	3000							.0	.00
14...	0005	4000							.0	.00
15...	0020	3700							.0	.00
26...	1000	3700							.0	.00
26...	1300	3700							.0	.00
JUL	0850	3700							.0	.00
02...	1240	3700							.0	.00
02...	1400	3700							.0	.00
10...	0450	3700							.0	.00
10...	1230	3700							.0	.00
10...	1510	3700							.0	.00
20...	2047	3400		8.0					.0	.00
24...	0625	10.0							.0	.00
24...	0635	900							.0	.00
24...	0705	2000							.0	.00
24...	0715	3700							.0	.00
24...	0740	10.0							.0	.00
24...	0750	900							.0	.00
24...	0800	2000							.0	.00
24...	0810	3700							.0	.00
24...	0835	10.0							.0	.00
24...	0845	900							.0	.00
24...	0855	2000							.0	.00
24...	0900	3700							.0	.00
24...	1035	900							.0	.00
24...	1045	2000							.0	.00
24...	1055	3700							.0	.00
24...	1205	10.0							.0	.00
24...	1215	900							.0	.00
24...	1235	2000							.0	.00
24...	1250	2900							.0	.00
24...	1310	3700							.0	.00
24...	1410	10.0							.0	.00
24...	1430	900							.0	.00
24...	1450	2000							.0	.00
24...	1505	2900							.0	.00
24...	1515	3700							.0	.00
24...	1600	10.0							.0	.00
24...	1610	900							.0	.00

APPENDIX A

01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY (82133)	OXYGEN DEMAND, BIOCHEM ULIT. CARBON-- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS, DAYS LAGTIME AT 20C (82136)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY (82132)	OXYGEN DEMAND, BIOCHEM NITROS, ULIT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SENA- TION CON-- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUN										
14....	.12	9.5	7.2	.89	4.3	14	---	---	---	---
15....	.12	3.5	8.8	.34	1.5	5.1	---	---	---	---
15....	.18	2.9	5.4	.18	3.0	5.8	---	---	---	---
26....	.25	6.9	5.2	.21	7.1	14	---	---	---	---
26....	.20	5.9	5.5	.48	3.0	8.8	---	---	---	---
JUL										
02....	.12	6.5	6.9	.65	2.4	8.9	---	---	---	---
02....	.17	7.5	5.5	.50	4.1	12	---	---	---	---
02....	.12	7.2	7.4	.65	3.3	11	---	---	---	---
10....	.16	7.0	5.1	.24	4.8	12	---	---	---	---
10....	.16	5.5	5.5	.33	3.6	9.1	---	---	---	---
10....	.16	5.9	5.0	.33	2.8	8.7	---	---	---	---
20....	---	---	---	---	---	---	---	---	---	---
24....	.27	5.2	5.8	.60	12	17	---	---	---	---
24....	.23	6.5	6.8	.40	12	18	---	---	---	---
24....	.12	9.0	7.0	1.9	3.1	12	---	---	---	---
24....	.17	5.5	5.8	.48	4.5	10	---	---	---	---
24....	.15	5.5	5.9	.72	7.2	13	---	---	---	---
24....	.18	6.2	5.7	.54	6.8	13	---	---	---	---
24....	.11	9.5	5.1	.48	4.2	13	---	---	---	---
24....	.14	5.2	5.0	.38	4.2	6.4	---	---	---	---
24....	.13	7.8	5.8	.88	7.4	15	---	---	---	---
24....	.29	4.7	6.7	.48	8.7	13	---	---	---	---
24....	.13	7.4	5.2	.43	3.7	11	---	---	---	---
24....	.18	5.2	5.9	.47	4.5	9.7	---	---	---	---
24....	.28	6.5	5.8	.29	14	21	---	---	---	---
24....	.19	6.5	6.7	.40	5.8	12	---	---	---	---
24....	.22	4.7	5.8	.41	5.0	9.7	---	---	---	---
24....	.22	7.5	5.7	.31	15	23	---	---	---	---
24....	.24	8.0	9.3	.45	12	20	---	---	---	---
24....	.21	5.5	5.9	.28	4.3	9.9	---	---	---	---
24....	.19	6.1	6.3	.38	6.2	12	---	---	---	---
24....	.16	6.7	6.0	.25	5.4	12	---	---	---	---
24....	.13	11	7.2	.46	7.1	18	---	---	---	---
24....	.14	11	5.9	.44	7.5	19	---	---	---	---
24....	.10	13	6.8	.54	2.4	15	---	---	---	---
24....	.15	9.0	9.3	.50	4.8	14	---	---	---	---
24....	.24	5.5	5.8	.20	5.0	10	---	---	---	---
24....	.15	10	6.7	.45	8.5	19	---	---	---	---
24....	.18	9.7	7.2	.40	9.2	19	---	---	---	---

APPENDIX A
 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

01652590

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM, L BANK) (00009)	TRANS- PAR- ENCY (SECCHI DISK (IV) (00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET) (00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET) (00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET) (00199)	LIGHT INCID. 400- 700NM INTEVS. (U-EINS /SQM/S) (00200)	OXYGEN DEMAND, RIOCHEM CARBON. DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
JUL										
24...	1635	---	2000	---	---	---	---	---	00	00
24...	1640	---	2900	---	---	---	---	---	00	00
24...	1650	---	3700	---	---	---	---	---	00	00
24...	1725	---	10	---	---	---	---	---	00	00
24...	1740	---	900	---	---	---	---	---	00	00
24...	1805	---	2000	---	---	---	---	---	00	00
24...	1810	---	2900	---	---	---	---	---	00	00
24...	1820	---	3700	---	---	---	---	---	00	00
24...	1855	---	10	---	---	---	---	---	00	00
24...	1905	---	900	---	---	---	---	---	00	00
24...	1925	---	2000	---	---	---	---	---	00	00
24...	1945	---	2900	---	---	---	---	---	00	00
24...	2000	---	3700	---	---	---	---	---	00	00
24...	2020	---	10	---	---	---	---	---	00	00
24...	2030	---	900	---	---	---	---	---	00	00
24...	2040	---	2900	---	---	---	---	---	00	00
24...	2100	---	3700	---	---	---	---	---	00	00
AUG										
01...	0930	---	3700	---	---	---	---	---	00	00
01...	1140	---	3700	---	---	---	---	---	00	00
01...	1350	---	3700	---	---	---	---	---	00	00
07...	0750	---	3700	---	---	---	---	---	00	00
07...	1040	---	3700	---	---	---	---	---	00	00
07...	1400	---	3700	---	---	---	---	---	00	00
15...	1110	---	3700	---	---	---	---	---	00	00
20...	0845	---	4000	---	---	---	---	---	00	00
20...	0925	---	30000	---	---	---	---	---	00	00
22...	0955	---	600	---	---	---	---	---	00	00
24...	0810	---	600	---	---	---	---	---	00	00
27...	0900	---	30000	---	---	---	---	---	00	00
29...	0810	---	40000	---	---	---	---	---	00	00
29...	0910	---	30000	---	---	---	---	---	00	00
SEP										
04...	0930	---	30000	---	---	---	---	---	00	00
04...	1005	---	40000	---	---	---	---	---	00	00
06...	1135	---	600	---	---	---	---	---	00	00
07...	1200	---	50000	---	---	---	---	---	00	00
07...	1800	---	50000	---	---	---	---	---	00	00
0815	0815	---	50000	---	---	---	---	---	00	00
10...	10...	---	50000	---	---	---	---	---	00	00
10...	1100	---	50000	---	---	---	---	---	00	00
10...	1440	---	50000	---	---	---	---	---	00	00

APPENDIX A
 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

01652590

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	DEOXYGE NATION CARBON KI TO BASE F PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULIT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. KI TO BASE E PER DAY AT 20C (82135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULIT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUL										
24....	.27	7.2	5.7	.26	6.0	13	--	--	--	--
24....	.16	8.4	5.7	.52	2.6	11	--	--	--	--
24....	.17	7.8	5.7	.25	5.4	13	--	--	--	--
24....	.19	9.2	7.0	.44	7.8	17	--	--	--	--
24....	.29	6.2		.42	9.5	16	--	--	--	--
24....	.15	11	5.9	.38	3.5	14	--	--	--	--
24....	.18	6.9	8.7	.48	4.0	11	--	--	--	--
24....	.11	9.1	5.4	.29	2.5	12	--	--	--	--
24....	.18	9.1	7.2	.36	9.8	19	--	--	--	--
24....	.11	13	6.9	.33	8.0	21	--	--	--	--
24....	.22	6.3	5.0	.19	5.5	12	--	--	--	--
24....	.17	7.5	5.0	.41	5.4	13	--	--	--	--
24....	.25	5.8	5.8	.27	6.2	12	--	--	--	--
24....	.16	8.2	6.9	.48	6.5	15	--	--	--	--
24....	.16	7.9	8.2	.75	8.3	16	--	--	--	--
24....	.13	7.1	7.9	.68	4.6	12	--	--	--	--
24....	.16	5.5	8.4	.30	4.7	10	--	--	--	--
AUG										
01....	.18	7.3	7.1	.25	4.3	12	--	--	--	--
01....	.20	7.0	5.8	.31	8.4	15	--	--	--	--
01....	.23	4.9	5.3	.28	5.5	10	--	--	--	--
07....	.15	5.0	4.0	.60	4.9	10	--	--	--	--
07....	.17	4.4	4.2	.48	4.4	8.8	--	--	--	--
07....	.15	4.5	3.7	.33	4.5	9.0	--	--	--	--
15....	.14	6.3	7.1	.34	1.9	8.2	--	--	--	--
20....	.23	4.5	6.1	.39	7.2	12	--	--	--	--
20....	.19	7.3	8.1	.30	24	31	--	--	--	--
22....	.17	6.5	5.3	.37	10	17	--	--	--	--
24....	.18	4.7	5.2	.62	8.7	13	--	--	--	--
27....	.24	5.7	7.0	.56	12	17	--	--	--	--
29....	.12	3.3	5.0	.23	2.7	6.0	--	--	--	--
29....	.17	4.8	5.9	.25	9.2	14	--	--	--	--
SEP										
04....	.19	6.4	5.8	.25	15	22	--	--	--	--
04....	.21	3.4	2.3	.23	4.3	7.7	--	--	--	--
06....	.12	7.0	3.2	.34	1.9	8.9	--	--	--	--
07....	.15	6.0	5.7	.15	3.7	9.7	--	--	--	--
07....	.15	4.0	5.3	.13	3.3	7.3	--	--	--	--
10....	.06	3.5	5.8	.40	2.5	6.1	--	--	--	--
10....	.12	3.0	5.9	.27	3.4	6.4	--	--	--	--
10....	.07	3.8	5.9	.27	4.5	8.3	--	--	--	--

APPENDIX A
 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FW, L RANK)	DEPTH (FEET)	TRAVEL PAR- ENCY (SECCHI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMMEDIATE (MG/L)	OXYGEN DEMAND, CARBON, 5 DAYS LAGTIME AT 20C (82135)
SEP 12...	0930	50000	---	---	---	---	---	---	0.0	0.00
12...	1230	50000	---	---	---	---	---	---	0.0	0.00
12...	1545	50000	---	---	---	---	---	---	0.0	0.00
14...	1420	3700	---	---	---	---	---	---	0.0	0.00
18...	1435	30000	---	---	---	---	---	---	0.0	0.00
18...	1505	40000	---	---	---	---	---	---	0.0	0.00

DATE	TIME	OXYGEN DEMAND, BIOCHEM. ULT. (MG/L)								
SEP 12...	0930	3.3	5.4	0.27	3.8	7.2	7.2	7.2	7.2	7.2
12...	1230	3.5	5.4	0.79	4.9	8.5	8.5	8.5	8.5	8.5
12...	1545	2.9	5.3	0.30	3.5	6.4	6.4	6.4	6.4	6.4
14...	1420	2.5	5.0	0.36	1.4	3.9	3.9	3.9	3.9	3.9
18...	1435	4.0	7.2	0.44	9.0	13	13	13	13	13
18...	1505	2.5	4.9	0.36	1.7	4.2	4.2	4.2	4.2	4.2

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET) (000003)	SAMPLE LOC- ATION CROSS SECTION (FT FM L RANK) (000009)	TRANS- PAR- ENCY (SECCHI DISK IV) (000077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET) (000034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET) (00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET) (00199)	LIGHT INCID. 400- 700NM INTEVS. (U-EINS /SQM/S) (00200)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (AP135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (AP135)
OCT											
06...	0815	---	3400	--	--	--	--	--	.0	--	.00
06...	0819	1.00	3400	7.0	--	--	--	--	--	--	--
11...	1440	--	3700	--	--	--	--	--	.0	--	.00
16...	1510	--	3700	--	--	--	--	--	.0	--	.00
23...	1335	--	3700	--	--	--	--	--	.0	--	.00
25...	1326	--	3700	--	--	--	--	--	.0	--	.00
28...	1250	--	3400	--	--	--	--	--	.0	--	.00
29...	1126	--	3700	--	--	--	--	--	.0	--	.00
30...	1240	--	3700	--	--	--	--	--	.0	--	.00
NOV											
28...	1320	--	3400	--	--	--	--	--	.0	--	.00
DEC											
04...	1110	--	600	--	--	--	--	--	.0	--	.00
04...	1130	--	3700	--	--	--	--	--	.0	--	.00
13...	1100	--	3700	--	--	--	--	--	.0	--	.00
13...	1110	--	3400	--	--	--	--	--	.0	--	.00
13...	1120	--	600	--	--	--	--	--	.0	--	.00
13...	1345	--	600	--	--	--	--	--	.0	--	.00
13...	1355	--	3400	--	--	--	--	--	.0	--	.00
13...	1405	--	3700	--	--	--	--	--	.0	--	.00
20...	1123	3.00	3400	38.0	--	--	--	--	.0	--	.00
20...	1125	--	3400	--	--	--	--	--	--	--	--
JAN											
02...	1535	--	600	--	--	--	--	--	-1.1	-1.1	2.5
08...	1020	--	600	--	--	--	--	--	-1.2	-1.2	1.6
08...	1310	--	3400	--	--	--	--	--	.0	.0	.00
08...	1335	--	600	--	--	--	--	--	-1.8	-1.8	2.0
16...	1155	--	3400	--	--	--	--	--	-1.8	-1.8	1.0
16...	1240	--	600	--	--	--	--	--	-1.8	-1.8	2.0
21...	1130	--	3400	--	--	--	--	--	.0	.0	.00
21...	1230	--	600	--	--	--	--	--	.0	.0	.00
29...	1030	--	3400	--	--	--	--	--	-2.2	-2.2	1.00
29...	1100	--	600	--	--	--	--	--	.0	.0	.00
29...	1300	--	3400	--	--	--	--	--	-2.5	-2.5	2.0
29...	1335	--	600	--	--	--	--	--	-4.0	-4.0	3.0
FEB											
04...	1320	--	3400	--	--	--	--	--	.0	.0	.00
04...	1340	--	600	--	--	--	--	--	-3.2	-3.2	3.0
06...	1120	--	3400	--	--	--	--	--	.0	.0	.00
06...	1145	--	600	--	--	--	--	--	-4.2	-4.2	4.0
11...	1025	--	3400	--	--	--	--	--	.0	.0	.00
11...	1040	--	600	--	--	--	--	--	-1.9	-1.9	1.0
11...	1355	--	3400	--	--	--	--	--	-1.6	-1.6	1.0

APPENDIX A

01552590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION AT 20C (82133)	OXYGEN DEMAND, BIOCHEM JLT. CARBON-ACEOUS (00320)	OXYGEN DEMAND, BIOCHEM NITROS. DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROS. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY-GENATION STANT KI TO BASE E (00325)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	STREP-TOCOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO-PLANKTON, TOTAL (CELLS PER ML) (60050)
OCT 06...	.20	3.9	12.7	.63	.97	4.8	--	--	--	1600
OCT 06...	--	--	--	--	--	--	--	--	--	--
OCT 11...	.11	3.4	9.0	.18	1.9	5.2	--	--	--	--
OCT 16...	.04	4.8	--	.00	.00	4.8	--	--	--	2000
OCT 23...	.05	4.0	4.5	.16	1.1	5.1	--	--	--	1400
OCT 25...	.10	2.8	5.9	.12	2.2	5.0	--	--	--	--
OCT 28...	.08	4.1	9.0	.39	1.6	5.7	--	--	--	--
OCT 29...	.09	2.3	8.4	.16	4.2	6.5	--	--	--	2200
OCT 30...	.08	3.0	--	--	--	3.0	--	--	--	--
NOV 28...	.12	4.3	7.3	.14	1.8	6.1	--	--	--	--
DEC 04...	.12	3.5	--	--	--	--	--	--	--	1400
DEC 04...	.10	2.9	9.5	.24	1.4	4.3	--	--	--	2500
DEC 13...	.06	2.7	9.1	.45	2.6	5.3	--	--	--	390
DEC 13...	.08	3.0	12.2	.38	1.2	4.2	--	--	--	2200
DEC 13...	.06	5.5	10.9	.28	21	27	--	--	--	1200
DEC 13...	.04	9.2	10.6	.41	12	21	--	--	--	980
DEC 13...	.09	2.2	9.7	.22	2.8	5.0	--	--	--	--
DEC 13...	.04	4.2	10.3	.52	2.0	6.2	--	--	--	--
DEC 20...	--	--	--	--	--	--	--	--	--	--
DEC 20...	.10	3.2	4.8	.28	1.3	4.5	--	--	--	1200
JAN 02...	.10	5.0	10.0	.37	14	19	--	--	--	1200
JAN 08...	.26	2.5	8.3	.19	7.7	10	--	--	--	1600
JAN 08...	.10	3.2	10.4	.34	.89	4.0	--	--	--	1600
JAN 08...	.11	5.9	13.0	.24	16	23	--	--	--	1400
JAN 16...	.15	2.9	13.0	--	1.6	4.5	--	--	--	2200
JAN 16...	.23	2.4	11.0	.45	5.9	8.3	--	--	--	--
JAN 21...	.10	2.5	3.6	.07	2.5	5.0	--	--	--	--
JAN 21...	.10	4.0	13.2	.12	9.0	13	--	--	--	--
JAN 29...	.12	1.9	13.0	.29	.64	2.6	--	--	--	--
JAN 29...	.15	4.0	12.2	.54	12	16	--	--	--	--
JAN 29...	.14	1.4	15.0	.62	--	2.0	--	--	--	--
JAN 29...	.26	2.2	10.0	.43	14	16	--	--	--	--
FEB 04...	.18	1.0	7.6	.13	3.2	4.2	--	--	--	--
FEB 04...	.11	5.3	12.0	.62	8.5	14	--	--	--	--
FEB 06...	.04	4.2	9.4	.22	3.7	7.9	--	--	--	--
FEB 06...	.13	6.1	12.0	.43	11	17	--	--	--	--
FEB 11...	.12	4.0	10.0	.12	2.4	6.3	--	--	--	--
FEB 11...	.06	8.7	12.0	.58	9.3	18	--	--	--	--
FEB 11...	.17	2.4	9.0	.29	2.5	4.8	--	--	--	--

APPENDIX A
 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

01652590

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLING DEPTH (FEET)	SAMPLE LOCATION	TRANS-PAR-ENCY	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMMEDIATE (MG/L)	OXYGEN DEMAND, BIOCHEMICAL CARBON DAYS LAGTIME AT 20C (82135)
FER 11...	1420	600	600	--	--	--	--	--	-5	2.0
20...	1300	3400	3400	--	--	--	--	--	-8	1.3
20...	1330	600	600	--	--	--	--	--	-9	2.0
28...	1115	600	600	--	--	--	--	--	-3.2	1.7
MAR 06...	1100	3400	3400	--	--	--	--	--	.0	.00
06...	1415	3400	3400	--	--	--	--	--	.0	.00
10...	1135	600	600	--	--	--	--	--	.0	.00
10...	1445	600	600	--	--	--	--	--	.0	.00
17...	0920	3400	3400	--	--	--	--	--	.0	.00
17...	0945	600	600	--	--	--	--	--	.0	.00
17...	1230	600	600	--	--	--	--	--	.0	.00
22...	1310	3400	3400	--	--	--	--	--	.0	.00
22...	1345	600	600	--	--	--	--	--	.0	.00
25...	1045	3400	3400	--	--	--	--	--	.0	.00
25...	1105	600	600	--	--	--	--	--	.0	.00
27...	1630	3400	3400	--	--	--	--	--	.0	.00
27...	1710	600	600	--	--	--	--	--	-1.0	2.2
31...	1150	600	600	--	--	--	--	--	-1.3	1.6
31...	1550	600	600	--	--	--	--	--	-1.1	.92
APR 03...	0950	3400	3400	--	--	--	--	--	.0	.00
03...	1010	600	600	--	--	--	--	--	.0	.00
03...	1315	600	600	--	--	--	--	--	.0	.00
07...	1300	3400	3400	--	--	--	--	--	-3	1.4
07...	1335	600	600	--	--	--	--	--	.0	.00
09...	1145	3400	3400	--	--	--	--	--	.0	.00
14...	1410	500	500	--	--	--	--	--	.0	.00
14...	1610	500	500	--	--	--	--	--	.0	.00
18...	1100	3400	3400	--	--	--	--	--	.0	.00
18...	1125	600	600	--	--	--	--	--	-5	.83
18...	1500	3400	3400	--	--	--	--	--	.0	.00
18...	1530	600	600	--	--	--	--	--	.0	.00
21...	1025	600	600	--	--	--	--	--	.0	.00
21...	1400	3400	3400	--	--	--	--	--	.0	.00
21...	1425	600	600	--	--	--	--	--	.0	.00
22...	0940	3400	3400	--	--	--	--	--	.0	.00
22...	0942	3400	3400	24.0	--	--	--	--	--	--
22...	1030	600	600	--	--	--	--	--	.0	.00
22...	1032	600	600	22.0	--	--	--	--	--	--
29...	1225	600	600	--	--	--	--	--	.0	.00

APPENDIX A
 01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYSE NATION CARRON K1 TO BASE F PER DAY AT 20C (82133)	OXYSN DEMAND, BIOCHEM NITROS. LAGTIME AT 20C (82135)	DEOXYG NATION VITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYSN DEMAND, BIOCHEM NITROS. JLT. (MG/L) (00321)	OXYSN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
FER									
11...	.21	9.0	.18	8.7	13	--	--	--	--
20...	.09	11.0	.26	5.0	10	--	--	--	--
20...	.15	11.5	.13	20	25	--	--	--	--
28...	.34	8.9	.22	19	23	--	--	--	--
MAR									
06...	.12	9.8	.41	2.5	7.5	--	--	--	15000
06...	.20	9.1	.12	4.3	8.3	--	--	--	--
10...	.15	7.8	.15	17	21	--	--	--	7600
10...	.09	9.4	.27	6.0	12	--	--	--	11000
17...	.22	7.2	.21	2.5	6.4	--	--	--	11000
17...	.15	11.6	.33	12	20	--	--	--	12000
17...	.17	12.0	.52	14	22	--	--	--	7600
22...	.12	13.9	--	1.3	4.9	--	--	--	12000
22...	.11	5.7	.23	10	20	--	--	--	8500
25...	--	9.5	.57	1.2	3.8	--	--	--	6100
25...	.11	--	.42	14	20	--	--	--	3100
27...	.15	10.0	.50	.85	2.4	--	--	--	6900
27...	--	8.5	.14	11	14	--	--	--	4900
31...	.12	11.9	.43	6.0	10	--	--	--	5000
31...	--	9.4	.33	9.7	13	--	--	--	3900
APR									
03...	.15	5.9	.33	2.6	4.4	--	--	--	5500
03...	.15	8.5	.42	4.3	9.3	--	--	--	5500
03...	.08	8.9	.34	7.9	13	--	--	--	5000
07...	.05	3.9	.00	.00	3.9	--	--	--	--
07...	.08	5.0	.48	7.5	14	--	--	--	4400
09...	.07	3.5	.00	.00	3.5	--	--	--	5800
14...	.21	7.1	.33	6.8	14	--	--	--	5800
14...	.07	7.5	.30	6.6	14	--	--	--	7500
18...	.07	4.0	--	.36	4.4	--	--	--	4400
18...	.06	11	--	6.8	17	--	--	--	3100
18...	.16	13.3	--	.56	3.1	--	--	--	4600
18...	.10	7.1	.10	11	18	--	--	--	4700
21...	.09	7.9	.39	8.3	16	--	--	--	4600
21...	.07	3.4	.93	1.1	4.5	--	--	--	4700
21...	.14	7.2	.28	15	22	--	--	--	5700
22...	.09	2.3	.49	.77	3.1	--	--	--	4600
22...	--	--	--	--	--	--	--	--	--
22...	.20	5.9	.24	12	18	--	--	--	9400
22...	--	--	--	--	--	--	--	--	--
29...	.15	11.0	.28	21	26	--	--	--	19000

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLING DEPTH (FEET)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)	OXYGEN DEMAND, BIOCHEM CARBON. LAGTIME AT 20C (82135)
APR 29...	1635	---	500	---	---	---	---	---	.0	.00
30...	1105	---	600	---	---	---	---	---	.6	.94
MAY 02...	0730	---	500	---	---	---	---	---	.0	.00
06...	0803	3.00	3400	18.0	---	---	---	---	---	.00
06...	0810	---	500	---	---	---	---	---	.0	.00
06...	0812	3.00	600	18.0	---	---	---	---	---	.00
06...	1030	---	500	---	---	---	---	---	.0	.00
06...	1032	3.00	600	19.0	---	---	---	---	---	.00
06...	1035	---	3400	---	---	---	---	---	.0	.00
06...	1038	3.00	3400	18.0	---	---	---	---	---	.00
08...	1856	3.00	600	24.0	---	---	---	---	---	.00
08...	1900	---	600	---	---	---	---	---	.0	.00
08...	1903	3.00	3400	24.0	---	---	---	---	---	.00
08...	1910	---	3400	---	---	---	---	---	.0	.00
12...	1053	1.00	600	28.0	---	---	---	---	---	.00
12...	1055	---	500	---	---	---	---	---	---	.00
12...	1100	---	3400	---	---	---	---	---	.0	.00
12...	1103	3.00	3400	28.0	---	---	---	---	---	.00
12...	1425	---	600	---	---	---	---	---	.0	.00
12...	1429	1.00	600	28.0	---	---	---	---	---	.00
12...	1430	---	3400	---	---	---	---	---	.0	.00
12...	1433	3.00	3400	24.0	---	---	---	---	---	.00
15...	0650	---	3400	---	---	---	---	---	.0	.00
15...	0720	---	600	---	---	---	---	---	.0	.00
19...	0945	---	3400	---	---	---	---	---	.0	.00
19...	0947	3.00	3400	30.0	---	---	---	---	---	.00
19...	1005	---	600	---	---	---	---	---	.0	.00
19...	1007	3.00	500	18.0	---	---	---	---	---	.00
22...	0640	---	3400	---	---	---	---	---	.0	.00
22...	0645	---	500	---	---	---	---	---	.0	.00
22...	1030	---	3400	---	---	---	---	---	.0	.00
22...	1035	---	600	---	---	---	---	---	.0	.00
28...	2010	---	500	---	---	---	---	---	.0	.00
30...	1300	---	500	---	---	---	---	---	.4	.87
30...	1310	---	3400	---	---	---	---	---	.0	.00
JUN 02...	1505	12.0	600	---	---	---	---	---	.0	.00
02...	1506	---	500	---	---	---	---	---	.4	.39
02...	1507	3.00	600	---	---	---	---	---	.4	.27
02...	1510	3.00	3400	---	---	---	---	---	.0	.00

01652590 APPENDIX A - POTOMAC R AT ALEXANDRIA, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON-- ACEOUS (M3/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. K1 TO BASE E PER DAY AT 20C (82136)	DEOXYGE NATION NITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT K1 TO BASE E (00325)	COLI-- FORM, FECAL, 0.45' UM-WF (COLS./ 100 ML) (31616)	STREP-- TOCOCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO-- PLANK-- TON, TOTAL (CELLS PER ML) (60050)
APR 29....	.18	6.5	10.7	.61	12	19	--	--	--	13000
30....	.09	7.2	10.1	.36	11	18	--	--	--	13000
MAY 02....	.16	5.4	9.5	.61	7.0	12	--	--	--	7200
06....	--	--	--	--	--	--	--	--	--	--
06....	.16	4.5	9.3	.49	9.5	14	--	--	--	5500
06....	--	--	--	--	--	--	--	--	--	--
06....	.16	5.5	7.5	.25	11	16	--	--	--	--
06....	--	--	--	--	--	--	--	--	--	--
06....	.17	1.9	9.2	.08	1.6	3.5	--	--	--	2500
06....	--	--	--	--	--	--	--	--	--	--
08....	--	--	--	--	--	--	--	--	--	--
08....	.12	6.0	9.0	.15	15	21	--	--	--	4400
08....	--	--	--	--	--	--	--	--	--	--
08....	.10	1.5	9.2	--	.58	2.2	--	--	--	9100
12....	--	--	--	--	--	--	--	--	--	--
12....	--	4.0	--	.39	12	17	--	--	--	21000
12....	.16	2.2	9.4	.76	1.3	3.5	--	--	--	26000
12....	--	--	--	--	--	--	--	--	--	--
12....	.11	7.7	9.0	.39	13	20	--	--	--	15000
12....	--	--	--	--	--	--	--	--	--	--
12....	.24	1.9	9.2	.22	1.7	3.5	--	--	--	39000
12....	--	--	--	--	--	--	--	--	--	--
15....	.20	3.9	10.0	.57	1.1	4.9	--	--	--	49000
15....	.20	5.7	9.3	.50	6.7	12	--	--	--	31000
19....	.20	4.4	14.4	--	1.9	6.2	--	--	--	28000
19....	--	--	--	--	--	--	--	--	--	--
19....	.16	6.7	10.9	.57	8.2	15	--	--	--	38000
19....	--	--	--	--	--	--	--	--	--	--
22....	.08	3.7	13.6	--	1.3	5.0	--	--	--	--
22....	.10	8.4	9.2	.26	12	21	--	--	--	--
22....	.07	3.7	.50	.11	2.3	6.0	--	--	--	--
22....	.13	4.4	10.8	.43	4.1	8.4	--	--	--	--
28....	.13	4.4	10.3	.96	7.0	11	--	--	--	--
30....	.13	4.2	9.5	.60	8.5	13	--	--	--	--
30....	.15	2.4	9.7	.45	1.5	3.9	--	--	--	--
JUN 02....	.18	6.9	9.1	.25	14	20	--	--	--	--
02....	.10	9.9	11.9	.49	12	22	--	--	--	--
02....	.19	7.3	12.0	.25	15	23	--	--	--	--
02....	.20	4.6	11.7	.58	2.7	7.2	--	--	--	--

APPENDIX A
 POTOMAC R AT ALEXANDRIA, VA. --Cont.

01652590

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- DEPTH (FEET) (00003)	SAMPLE LOC- ATTON, CRYS SECTION (FT FM L RANK) (00009)	TRANS- PAR- ENCY (SECCI DISK) (IN) (00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET) (00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET) (00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET) (00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S) (00200)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME; AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
JUN										
02...	1512	---	3400	--	--	--	--	--	.00	.0
02...	1810	3.00	600	--	--	--	--	--	-.48	.5
02...	1811	12.0	600	--	--	--	--	--	-.32	.3
02...	1851	36.0	3400	--	--	--	--	--	.00	.0
05...	1050	---	600	--	--	--	--	--	.00	.0
09...	1830	---	600	--	--	--	--	--	.00	.0
09...	1900	---	3400	--	--	--	--	--	.39	-.2
12...	1200	---	3400	--	--	--	--	--	.00	.0
12...	1220	---	500	--	--	--	--	--	.00	.0
17...	1725	---	600	--	--	--	--	--	.00	.0
17...	1726	2.00	300	20.0	--	--	--	--	---	---
17...	1750	3.00	3100	20.0	--	--	--	--	---	---
17...	1800	2.00	3800	19.0	--	--	--	--	---	---
17...	1805	---	40000	--	--	--	--	--	---	---
19...	1740	---	40000	--	--	--	--	--	.00	.0
19...	1750	---	30000	--	--	--	--	--	.00	.0
19...	2115	---	40000	--	--	--	--	--	.00	.0
19...	2130	---	30000	--	--	--	--	--	2.0	-3.9
23...	1730	---	600	--	--	--	--	--	1.0	-2.5
23...	1740	---	3400	--	--	--	--	--	.00	.0
27...	1317	2.00	300	22.0	--	--	--	--	---	---
27...	1320	2.00	1000	22.0	--	--	--	--	---	---
27...	1325	---	30000	--	--	--	--	--	.00	.0
27...	1338	3.00	3100	24.0	--	--	--	--	---	---
27...	1400	---	40000	--	--	--	--	--	.00	.0
27...	1408	2.00	3800	24.0	--	--	--	--	---	---
30...	1450	---	3400	--	--	--	--	--	1.1	-1.9
30...	1510	---	600	--	--	--	--	--	1.1	-2.2
JUL										
04...	1502	2.00	300	30.0	--	--	--	--	---	---
04...	1515	2.00	1000	23.0	--	--	--	--	---	---
04...	1525	---	30000	--	--	--	--	--	.00	.0
04...	1542	5.00	3800	30.0	--	--	--	--	---	---
04...	1600	---	40000	--	--	--	--	--	---	---
07...	1215	---	3400	--	--	--	--	--	.00	.0
07...	1218	3.00	3400	46.0	--	--	--	--	---	---
07...	1237	3.00	600	31.0	--	--	--	--	---	---
07...	1240	---	500	--	--	--	--	--	---	---
09...	1350	---	30000	--	--	--	--	--	-1.5	-1.5
09...	1357	2.00	300	24.0	--	--	--	--	-.4	-.4

APPENDIX A
 POTOMAC R AT ALEXANDRIA, VA. --Cont.

01652590

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULIF. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS. LAGTIME AT 20C (82135)	DEOXYGE NATION VITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROS. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM NITROS. ULT. (MG/L) (00319)	OXYGEN DEMAND, BIOCHEM NITROS. ULT. (MG/L) (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREPTO- COCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUN 02....	.24	4.5	9.5	.74	3.0	7.5	--	--	--	--
02....	.20	5.3	8.9	.23	5.3	11	--	--	--	--
02....	.17	5.5	9.7	.27	4.3	10	--	--	--	--
02....	.22	3.3	12.0	.51	2.3	5.6	--	--	--	--
05....	.16	4.3	11.1	--	8.1	12	--	--	--	--
09....	.19	5.5	6.9	.29	4.5	10	--	--	--	--
09....	.09	5.7	12.3	.69	3.4	9.2	--	--	--	--
12....	.16	3.8	7.5	.10	7.1	11	--	--	--	--
12....	.22	4.9	--	--	--	--	--	--	--	--
17....	.09	9.9	9.4	.67	11	21	--	--	--	--
17....	--	--	--	--	--	--	--	--	--	--
17....	--	--	--	--	--	--	--	--	--	--
17....	.15	3.5	8.8	.30	8.4	12	--	--	--	--
19....	.11	5.5	11.6	.29	4.2	9.7	--	--	--	--
19....	.09	10	--	--	--	--	--	--	--	--
19....	.15	15	12.0	--	14	29	--	--	--	--
19....	.15	18	12.0	--	9.4	27	--	--	--	--
23....	.12	17	12.3	--	9.0	26	--	--	--	--
23....	.11	11	2.9	.09	18	29	--	--	--	--
27....	--	--	--	--	--	--	--	--	--	--
27....	.14	7.5	13.9	--	.67	8.3	--	--	--	--
27....	--	--	--	--	--	--	--	--	--	--
27....	.18	6.4	11.7	.21	5.8	12	--	--	--	--
27....	--	--	--	--	--	--	--	--	--	--
30....	.12	15	8.2	.06	32	47	--	--	--	--
30....	.35	6.8	7.0	.15	18	25	--	--	--	--
JUL 04....	--	--	--	--	--	--	--	--	--	--
04....	.08	8.7	4.5	.15	15	23	--	--	--	--
04....	--	--	--	--	--	--	--	--	--	--
04....	.09	10	5.9	.39	4.1	14	--	--	--	--
07....	--	--	--	--	--	--	--	--	--	--
07....	--	--	--	--	--	--	--	--	--	--
07....	.19	9.2	8.6	.58	9.4	19	--	--	--	--
09....	.14	6.7	5.9	.32	13	19	--	--	--	18000
09....	--	--	--	--	--	--	--	--	--	--

01652590 APPENDIX A - POTOMAC R AT ALEXANDRIA, VA, --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	(00009)	(00077)	LIGHT DEPTH TO 1*	OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 10%	OF SURFACE LIGHT (FEET)	(00199)	LIGHT DEPTH TO 50*	OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, IMME- DIATE (MG/L)	(00302)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (8P135)
JUL																			
09...	1400	2.00	1000		21.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09...	1422	3.00	3100		18.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09...	1430	---	40000		---	--	--	--	--	--	--	--	--	--	--	--	0.00	--	--
09...	1443	2.00	3800		18.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10...	1110	3.00	600		25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10...	1115	---	600		---	--	--	--	--	--	--	--	--	--	--	--	-0.6	--	0.77
10...	1211	2.00	3400		24.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10...	1215	---	3400		---	--	--	--	--	--	--	--	--	--	--	--	0.0	--	0.00
15...	1830	---	3400		---	--	--	--	--	--	--	--	--	--	--	--	-0.7	--	0.59
15...	1834	5.00	3400		19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	1852	3.00	500		17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	1900	---	500		---	--	--	--	--	--	--	--	--	--	--	--	-1.0	--	0.76
16...	1323	1.00	300		24.0	--	--	--	--	--	--	--	--	--	--	--	0.0	--	0.00
16...	1340	---	30000		---	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	1357	1.00	3100		25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	1408	1.00	3800		30.0	--	--	--	--	--	--	--	--	--	--	--	0.0	--	0.00
16...	1415	---	40000		---	--	--	--	--	--	--	--	--	--	--	--	0.0	--	0.00
21...	1330	---	3400		---	--	--	--	--	--	--	--	--	--	--	--	0.0	--	0.00
21...	1340	---	600		---	--	--	--	--	--	--	--	--	--	--	--	0.0	--	0.00
23...	0552	1.00	300		20.0	--	--	--	--	--	--	--	--	--	--	--	0.4	--	-0.40
23...	0600	---	30000		---	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	0605	1.00	1000		19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	0622	1.00	3100		24.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	0638	1.00	3800		23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	1637	1.00	300		24.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	1640	1.00	1000		18.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	1645	---	30000		---	--	--	--	--	--	--	--	--	--	--	--	0.0	--	0.00
23...	1712	1.00	3800		27.0	--	--	--	--	--	--	--	--	--	--	--	0.0	--	0.00
23...	1720	---	40000		---	--	--	--	--	--	--	--	--	--	--	--	0.0	--	0.00
23...	1802	1.00	3100		24.0	--	--	--	--	--	--	--	--	--	--	--	0.0	--	0.00
30...	0610	---	30000		---	--	--	--	--	--	--	--	--	--	--	--	0.0	--	0.00
30...	0701	---	40000		---	--	--	--	--	--	--	--	--	--	--	--	0.0	--	0.00
30...	0812	1.00	3100		24.0	7.50	--	--	--	--	2.600	--	--	--	--	--	--	--	--
30...	0822	1.00	3800		24.0	8.50	--	--	--	--	2.000	--	--	--	--	--	--	--	--
30...	1617	1.00	300		24.0	6.00	--	--	--	--	.500	--	--	--	--	--	--	--	--
30...	1620	1.00	1000		---	--	--	--	--	--	.500	--	--	--	--	--	--	--	--
30...	1625	---	30000		---	--	--	--	--	--	2.000	--	--	--	--	--	0.0	--	0.00
30...	1707	1.00	3800		30.0	---	--	--	--	--	2.500	--	--	--	--	--	0.0	--	0.00
30...	1715	---	40000		---	--	--	--	--	--	---	--	--	--	--	--	0.0	--	0.00

APPENDIX A
 01652590 - POTOMAC R AT ALEXANDRIA, VA. ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARRON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM JLT. CARBON-- ACEOUS (M3/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY (82132)	OXYGEN DEMAND, BIOCHEM NITROG. JLT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUL 09...	--	--	--	--	--	--	--	--	--	--
09...	--	7.2	5.5	.21	6.0	13	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
10...	--	5.2	2.2	--	8.0	13	--	--	--	--
10...	--	6.6	9.4	.37	4.5	11	--	--	--	--
15...	--	7.7	11.7	.37	3.1	11	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	8.2	9.7	.28	5.7	14	--	--	--	--
16...	--	9.5	8.0	.30	7.0	17	--	--	--	60000
16...	--	--	--	--	--	--	--	--	--	--
16...	--	6.6	5.5	.33	5.1	12	--	--	--	--
17...	--	5.8	5.7	.38	5.6	11	--	--	--	--
21...	--	9.7	8.3	.34	8.6	18	--	--	--	--
23...	--	8.0	8.9	.48	7.0	15	--	--	--	10000
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	--	7.3	5.4	.40	6.1	13	--	--	--	15000
23...	--	4.7	9.1	.51	5.8	11	--	8500	104	9200
30...	--	6.5	7.8	.27	9.1	16	--	--	--	9200
30...	--	5.2	8.2	.47	7.7	13	--	22200	2010	8200
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	--	8.8	--	--	--	--	--	--	--	12000
30...	--	8.3	7.0	.33	4.2	13	--	--	--	13000

APPENDIX A
 POTOMAC R AT ALEXANDRIA, VA. --Cont.

01652590

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT FM DISK)	TRANS- PAR- ENCY	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM. CARBON, DAYS LAGTIME AT 20C (R2135)
		(00003)	(00009)	(00077)	(00034)	(00198)	(00199)	(00200)	(00302)	(00135)
JUL	1718	1.00	3100	22.0	6.00		.350			
AUG	0502	1.00	300	20.0	3.90					
	0505	1.00	1000	19.0						
	0610	---	30000							
	0632	1.00	3100	23.0	2.90		1.000			
	0640	---	40000							
	0643	1.00	3800	23.0	4.00		1.000			
	1613	3.00	300	20.0	4.25					
	1625	3.00	1000	19.0	5.30					
	1630	---	30000							
	1701	3.00	3100	22.0	6.50		1.000	250		
	1707	3.00	3800	19.0	6.50		.500	250		
	1730	---	40000							
	0532	1.00	300	19.0						
	0540	1.00	1000	22.0						
	0557	1.00	3100	24.0		4.000				
	0500	---	40000							
	0607	1.00	3800	24.0	6.50		1.300			
	0627	1.00	300	24.0						
	0630	---	30000							
	0702	1.00	3100	24.0						
	0710	---	40000							
	0717	1.00	3800	30.0						
	0755	---	30000							
	0802	1.00	300	30.0						
	0816	1.00	1000	24.0						
	0840	---	40000							
	0853	1.00	3800	24.0						
	0926	6.00	300	24.0						
	0930	---	30000							
	0945	1.00	1000	24.0						
	1004	1.00	3100	24.0						
	1010	---	40000							
	1017	1.00	3800	27.0						
	1104	1.00	300	24.0						
	1120	1.00	1000	27.0						
	1125	---	30000							
	1134	1.00	3100	27.0						
	1145	---	40000							

APPENDIX A
 01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARRON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON-- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS. KI TO BASE E LAGTIME AT 20C (82136)	DEOXYGE NATION VITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROS. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUL 30....	--	--	--	--	--	--	--	--	--	--
AUG 04....	--	--	--	--	--	--	--	--	--	--
04....	--	--	--	--	--	--	--	--	--	--
04....	.14	11	5.6	.88	5.4	17	--	--	--	9200
04....	--	--	--	--	--	--	--	--	--	--
04....	.15	7.5	4.5	.39	4.7	12	--	5150	1400	6700
04....	--	--	--	--	--	--	--	--	--	--
04....	--	--	--	--	--	--	--	--	--	--
04....	.21	12	2.4	.10	12	24	--	--	--	21000
04....	--	--	--	--	--	--	--	--	--	--
04....	.16	7.3	2.5	.22	8.7	16	--	--	--	<19000
05....	--	--	--	--	--	--	--	--	--	--
05....	--	--	--	--	--	--	--	--	--	--
05....	.17	8.5	5.7	.19	6.1	15	--	4200	232	10000
05....	--	--	--	--	--	--	--	--	--	--
05....	.16	11	2.4	.24	8.3	19	--	--	--	--
05....	--	--	--	--	--	--	--	--	--	--
05....	.11	6.5	--	--	--	--	--	--	--	--
05....	.10	9.1	--	--	--	--	--	--	--	--
05....	--	--	--	--	--	--	--	--	--	--
05....	.12	7.0	--	--	--	--	--	--	--	--
05....	--	--	--	--	--	--	--	--	--	--
05....	.11	9.0	--	--	--	--	--	--	--	--
05....	--	--	--	--	--	--	--	--	--	--
05....	.11	6.1	--	--	--	--	--	--	--	--
05....	--	--	--	--	--	--	--	--	--	--
05....	.16	5.8	--	--	--	--	--	--	--	--
05....	.12	6.9	--	--	--	--	--	--	--	--

APPENDIX A
 POTOMAC R AT ALEXANDRIA, VA. --Cont.

01652590

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT F4 L RANK)	TRANS- PAR- ENCY (SECCHI DISK) (IV)	LIGHT DEPT- H TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM. CARBON, LAGTIME AT 20C (82135)
AUG 05...	1153	1.00	3800	19.0	--	--	--	--	--	--
05...	1244	1.00	300	27.0	--	--	--	--	--	--
05...	1300	--	30000	--	--	--	--	--	.0	.00
05...	1306	1.00	1000	18.0	--	--	--	--	--	--
05...	1317	2.00	3100	33.0	--	--	--	--	--	--
05...	1325	--	40000	--	--	--	--	--	.0	.00
05...	1333	1.00	3800	19.0	--	--	--	--	--	--
05...	1403	1.00	300	24.0	--	--	--	--	--	--
05...	1413	1.00	3100	27.0	--	--	--	--	--	--
05...	1422	1.00	1000	21.0	--	--	--	--	--	--
05...	1434	3.00	3800	19.0	--	--	--	--	--	--
05...	1543	1.00	300	24.0	--	--	--	--	--	--
05...	1547	1.00	1000	24.0	--	--	--	--	--	--
05...	1558	1.00	3100	24.0	--	--	--	--	--	--
05...	1604	1.00	3800	24.0	--	--	--	--	--	--
05...	1615	--	30000	--	--	--	--	--	.0	.00
05...	1618	1.00	300	25.0	6.00	--	.170	--	--	--
05...	1620	1.00	1000	24.0	5.00	--	.250	--	--	--
05...	1637	1.00	3100	24.0	6.00	--	.250	--	--	--
05...	1642	1.00	3800	24.0	6.90	--	.250	--	--	--
05...	1645	--	40000	--	--	--	--	--	.0	.00
05...	1833	1.00	300	24.0	--	--	--	--	--	--
05...	1835	--	30000	--	--	--	--	--	.0	.00
05...	1837	1.00	1000	18.0	--	--	--	--	--	--
05...	1842	3.00	3100	24.0	--	--	--	--	--	--
05...	1845	--	40000	--	--	--	--	--	.0	.00
05...	1853	1.00	3800	30.0	--	--	--	--	--	--
06...	0545	--	30000	--	--	--	--	--	.0	.00
06...	0548	1.00	300	18.0	--	--	--	--	--	--
06...	0550	1.00	1000	18.0	--	--	--	--	--	--
06...	0602	1.00	3100	23.0	--	--	1.000	--	--	--
06...	0610	--	40000	--	--	--	1.500	--	.0	.00
06...	0613	1.00	3800	28.0	8.20	--	--	--	--	--
06...	0617	1.00	300	24.0	--	--	--	--	--	--
06...	0629	1.00	1000	24.0	--	--	--	--	--	--
06...	0630	--	30000	--	--	--	--	--	.0	.00
06...	0642	1.00	3100	30.0	--	--	--	--	--	--
06...	0652	1.00	3800	24.0	--	--	--	--	--	--
06...	0700	--	40000	--	--	--	--	--	.0	.00

APPENDIX A
 01652590 - POTOMAC R AT ALEXANDRIA, VA, --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYG NATION CARRON KI TO	OXYGEN DEMAND, BIOCHEM ULT.	OXYGEN DEMAND, BIOCHEM NITROS, DAYS LAGTIME	DEOXYG NATION VITROG. KI TO	OXYGEN DEMAND, BIOCHEM NITROS, ULT.	OXYGEN DEMAND, BIOCHEM UNINHIB ULT.	DEOXYG SEVA- TION CON- STANT KI TO	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)
	(92133)	(00320)	(82135)	(82132)	(00321)	(00319)	(00325)	(31616)	(31573)	(60050)
AUG 05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	.12	10	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	4.2	--	--	--	--	--	--	--	--
05...	.14	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	.15	10	4.0	.33	4.7	15	--	--	--	7900
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	.12	7.3	2.2	.31	6.5	14	--	--	--	7500
05...	.15	11	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	.10	7.0	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
06...	.11	9.7	1.2	.38	5.8	15	--	--	--	9600
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	.15	4.7	1.7	.17	7.0	12	--	3100	740	6100
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	.14	8.9	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	.07	8.2	--	--	--	--	--	--	--	--

APPENDIX A
 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (SECCI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON, LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L)
		(00003)	(00009)	(00077)	(00198)	(00199)	(00200)			(00302)
06...	0807	1.00	300	24.0	--	--	--	--	--	--
06...	0810	--	30000	--	--	--	--	--	0.00	0
06...	0815	1.00	1000	24.0	--	--	--	--	--	--
06...	0842	1.00	3100	24.0	--	--	--	--	--	--
06...	0847	--	40000	--	--	--	--	--	0.00	0
06...	0852	1.00	3800	33.0	--	--	--	--	--	--
06...	0932	1.00	300	30.0	--	--	--	--	--	--
06...	0935	2.00	1000	24.0	--	--	--	--	--	--
06...	0940	--	30000	--	--	--	--	--	0.00	0
06...	0953	1.00	3100	30.0	--	--	--	--	0.00	0
06...	1000	--	40000	--	--	--	--	--	0.00	0
06...	1014	1.00	3900	30.0	--	--	--	--	--	--
06...	1108	1.00	300	24.0	--	--	--	--	--	--
06...	1110	--	30000	--	--	--	--	--	0.00	0
06...	1116	1.00	1000	30.0	--	--	--	--	--	--
06...	1134	1.00	3100	27.0	--	--	--	--	0.00	0
06...	1137	--	40000	--	--	--	--	--	0.00	0
06...	1144	1.00	3800	30.0	--	--	--	--	0.55	0.8
06...	1240	--	30000	--	--	--	--	--	--	--
06...	1249	3.00	300	24.0	--	--	--	--	--	--
06...	1257	1.00	1000	24.0	--	--	--	--	--	--
06...	1302	7.00	3100	27.0	--	--	--	--	--	--
06...	1310	--	40000	--	--	--	--	--	0.00	0
06...	1324	1.00	3900	15.0	--	--	--	--	--	--
06...	1419	3.00	300	24.0	--	--	--	--	--	--
06...	1423	1.00	1000	24.0	--	--	--	--	--	--
06...	1425	--	30000	--	--	--	--	--	0.00	0
06...	1442	3.00	3100	27.0	--	--	--	--	--	--
06...	1445	--	40000	--	--	--	--	--	0.00	0
06...	1454	1.00	3800	15.0	--	--	--	--	0.57	0.8
06...	1540	--	30000	--	--	--	--	--	--	--
06...	1549	3.00	300	21.0	--	--	--	--	--	--
06...	1553	1.00	1000	21.0	--	--	--	--	--	--
06...	1604	1.00	3100	24.0	--	--	--	--	--	--
06...	1605	--	40000	--	--	--	--	--	0.00	0
06...	1610	--	30000	--	--	--	--	--	0.00	0
06...	1623	0.50	3100	25.0	7.00	1.000	--	--	0.00	0
06...	1629	1.00	3800	24.0	7.00	0.500	--	--	--	--
06...	1630	--	40000	--	--	--	--	--	0.00	0

01652590 APPENDIX A - POTOMAC R AT ALEXANDRIA, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEDXYS NATION CARBON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (43/L) (00320)	OXYGEN DEMAND, NITROG, DAYS LAGTIME AT 20C (82135)	DEDXG6 NATION NITROG, KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, RITOCHEM UINIHIB ULT. (MG/L) (00319)	DEXY- GENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-VF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
AUG										
06...										
06...	.13	8.3								
06...										
06...										
06...	.11	6.1								
06...										
06...										
06...	.12	8.3								
06...										
06...	.11	6.7								
06...										
06...										
06...	.12	8.4								
06...										
06...										
06...	.09	6.0								
06...										
06...	.17	7.5								
06...										
06...										
06...	.30	3.5								
06...										
06...										
06...	.11	8.1								
06...										
06...	.17	5.8								
06...										
06...	.17	7.9								
06...										
06...										
06...										
06...	.07	11								
06...	.20	12		.00	.00	12				16000
06...										
06...										
06...	.15	7.0	1.2	.15	7.9	15				7100

01652590 APPENDIX A - POTOMAC R AT ALEXANDRIA, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00003)	(00009)	TRANS- PAR- ENCY (SECHI DISK) (IN)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	(00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	OXYGEN DEMAND, BIOCHEM CARBON, IMME- DIATE (MG/L)	(00302)	OXYGEN DEMAND, BIOCHEM CARBON, LAGTIME AT 20C (82135)
AUG	06...	1634	0.50	3800	25.0	---	---	---	---	---	---	---	---	---	---	---
	06...	1643	1.00	300	19.0	5.00	---	---	---	---	---	.250	---	---	---	---
	06...	1650	1.00	1000	22.0	---	3.000	---	---	---	---	.670	---	---	---	---
	06...	1710	---	30000	---	---	---	---	---	---	---	---	---	0.0	---	---
	06...	1713	3.00	1000	24.0	---	---	---	---	---	---	---	---	---	---	---
	06...	1719	1.00	300	21.0	---	---	---	---	---	---	---	---	---	---	---
	06...	1723	1.00	3100	24.0	---	---	---	---	---	---	---	---	---	---	---
	06...	1735	---	40000	---	---	---	---	---	---	---	---	---	0.53	---	---
	06...	1748	1.00	3800	27.0	---	---	---	---	---	---	---	---	---	---	---
	06...	1843	1.00	300	21.0	---	---	---	---	---	---	---	---	---	---	---
	06...	1846	1.00	1000	21.0	---	---	---	---	---	---	---	---	---	---	---
	06...	1847	---	30000	---	---	---	---	---	---	---	---	---	0.0	---	---
	06...	1853	1.00	3100	27.0	---	---	---	---	---	---	---	---	---	---	---
	06...	1905	---	40000	---	---	---	---	---	---	---	---	---	0.0	---	---
	06...	1913	1.00	3800	30.0	---	---	---	---	---	---	---	---	---	---	---
	06...	1948	1.00	300	21.0	---	---	---	---	---	---	---	---	---	---	---
	06...	1952	1.00	1000	21.0	---	---	---	---	---	---	---	---	---	---	---
	06...	1955	---	30000	---	---	---	---	---	---	---	---	---	0.0	---	---
	06...	2004	1.00	3100	27.0	---	---	---	---	---	---	---	---	---	---	---
	06...	2013	1.00	3800	27.0	---	---	---	---	---	---	---	---	---	---	---
	06...	2016	---	40000	---	---	---	---	---	---	---	---	---	0.0	---	---
	06...	0617	1.00	300	25.0	7.50	---	---	---	---	---	.500	---	---	---	---
	07...	0630	1.00	1000	23.0	5.50	---	---	---	---	---	.250	---	---	---	---
	07...	0631	---	30000	---	---	---	---	---	---	---	---	---	0.0	---	---
	07...	0642	1.00	3100	25.0	7.00	---	---	---	---	---	.250	---	---	---	---
	07...	0650	---	40000	---	---	---	---	---	---	---	---	---	0.0	---	---
	07...	0653	1.00	3800	22.0	7.25	---	---	---	---	---	.250	---	---	---	---
	07...	1603	1.00	300	19.0	7.00	---	---	---	---	---	.500	---	---	---	---
	07...	1605	1.00	1000	18.0	5.20	---	---	---	---	---	.670	---	---	---	---
	07...	1610	---	30000	---	---	---	---	---	---	---	---	---	0.0	---	---
	07...	1620	---	40000	---	---	---	---	---	---	---	---	---	0.0	---	---
	07...	1623	1.00	3100	25.0	9.00	---	---	---	---	---	1.000	---	---	---	---
	07...	1627	1.00	3800	23.0	6.20	---	---	---	---	---	1.000	---	---	---	---
	08...	0547	1.00	300	22.0	---	---	---	---	---	---	---	---	---	---	---
	08...	0555	1.00	1000	22.0	---	---	---	---	---	---	---	---	---	---	---
	08...	0600	---	30000	---	---	---	---	---	---	---	---	---	0.0	---	---
	08...	0603	1.00	3100	23.0	---	---	---	---	---	---	1.500	---	---	---	---
	08...	0610	---	40000	---	---	---	---	---	---	---	---	---	0.0	---	---
	08...	0613	1.00	3800	24.0	---	---	---	---	---	---	1.250	---	---	---	---

01652390 APPENDIX A
 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON-- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS, DAYS LAGTIME AT 20C (92135)	DEOXYGE NATION NITROG. K1 TO BASE E PER DAY AT 20C (92132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO-- PLANK- TON, TOTAL (CELLS PER ML) (60050)
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	.17	9.5	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	.14	6.7	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	.17	10	--	--	--	--	--	--	--	--
06...	.09	7.5	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	.14	11	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	.11	6.0	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	.16	7.0	.00	.07	10	17	--	--	--	12000
07...	.15	5.1	1.4	.32	5.3	10	--	5900	4100	<34000
07...	--	--	--	--	--	--	--	--	--	5500
07...	--	--	--	--	--	--	--	--	--	--
07...	.21	12	.28	.07	5.8	18	--	--	--	454000
07...	.17	8.2	1.5	.33	4.0	12	--	--	--	<23000
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	.12	7.0	1.5	.56	5.0	12	--	--	--	8200
08...	--	--	--	--	--	--	--	--	--	--
08...	.18	5.8	1.4	.42	4.8	11	--	2720	1620	6100
08...	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAM- PLING DEPTH (FEET)	SECTION (FT FM L RANK)	TRANS- PAR- ENCY (SECTH DISK TN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTEVS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, CARBON, LAGTIME AT 20C (82135)
		(00003)	(00009)	(00077)	(00034)	(00198)	(00199)	(00200)	(00302)	(00302)	(82135)
AUG 08...	1635	---	30000	---	---	---	---	---	---	.0	.00
08...	1642	1.00	3100	23.0	---	6.00	---	.340	---	---	---
08...	1653	1.00	3800	14.0	---	4.75	---	.250	---	---	---
08...	1700	---	40000	---	---	---	---	---	---	.0	.00
08...	1718	1.00	300	21.0	---	5.50	---	.250	---	---	---
08...	1720	1.00	1000	18.0	---	5.00	---	.340	---	---	---
08...	1717	1.00	300	19.0	---	5.00	---	.500	---	---	---
11...	1725	1.00	1000	18.0	---	---	1.750	.500	---	---	---
11...	1730	---	30000	---	---	---	---	---	---	.0	.00
11...	1749	1.00	3100	24.0	---	6.50	---	.500	---	---	---
11...	1753	1.00	3800	12.0	---	4.75	---	.340	---	---	---
11...	1900	---	40000	---	---	---	---	---	---	.0	.00
13...	0558	1.00	300	21.0	---	---	---	---	---	.0	.00
13...	0500	---	30000	---	---	---	---	---	---	.0	.00
13...	0610	1.00	1000	24.0	---	---	---	.500	1.80	.0	.00
13...	0532	3.00	3100	24.0	---	5.50	---	.820	26.0	---	---
13...	0540	---	40000	---	---	---	---	---	---	.0	.00
13...	0648	1.00	3800	---	---	7.00	---	1.000	45.0	---	---
13...	1608	1.00	300	21.0	---	7.50	---	.500	900	---	---
13...	1620	1.00	1000	---	---	---	2.500	.670	450	---	---
13...	1625	---	30000	---	---	---	---	---	---	.0	.00
13...	1630	---	40000	---	---	---	---	---	---	.0	.00
13...	1638	1.00	3100	21.0	---	6.50	---	.800	---	---	---
13...	1645	1.00	3800	21.0	---	7.25	---	1.000	---	---	---
19...	1257	3.00	600	34.0	---	---	---	---	---	---	---
19...	1300	---	600	---	---	---	---	---	---	.0	.00
19...	1322	3.00	3400	30.0	---	---	---	---	---	.0	.00
19...	1330	---	3400	---	---	---	---	---	---	.0	.00
20...	0657	1.00	300	18.0	---	---	---	.250	---	---	---
20...	0700	1.00	1000	19.0	---	1.00	---	.250	---	---	---
20...	0708	1.00	3100	20.0	---	1.70	---	.340	---	---	---
20...	0710	---	30000	---	---	---	---	---	---	.0	.00
20...	0715	---	40000	---	---	---	---	---	---	.0	.00
20...	0718	1.00	3800	22.0	---	2.00	---	.340	---	.0	.00
20...	1648	1.00	300	25.0	---	4.50	---	.800	---	---	---
20...	1650	---	30000	---	---	---	---	---	---	.0	.00
20...	1651	1.00	1000	24.0	---	4.50	---	1.000	---	.0	.00
20...	1708	1.00	3100	25.0	---	4.00	---	.500	---	---	---
20...	1715	---	40000	---	---	---	---	---	---	.0	.00

APPENDIX A
 01652590 - POTOMAC R AT ALEXANDRIA, VA. ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE- NATION CARBON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM- JLT. CARBON- ACEOUS (43/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. LAGTIME AT 20C (82135)	DEOXYGE- NATION VITROG. KI TO BASE E PER DAY (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREPTO- COCCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
AUG										
08...	.29	11	3.9	.19	9.8	21	--	--	--	<27000
08...	--	--	--	--	--	--	--	--	--	--
08...	.21	9.8	.90	.09	9.9	20	--	--	--	<19000
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	.27	11	6.5	.35	6.5	18	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	.20	8.5	3.5	.39	4.4	13	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	.18	7.7	3.5	.28	10	18	--	--	--	14000
13...	--	--	--	--	--	--	--	--	--	--
13...	.17	5.8	1.0	--	4.0	10	--	31200	0	6700
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	.22	11	1.0	--	10	21	--	--	--	12000
13...	.15	7.1	2.3	.20	6.9	14	--	--	--	<25000
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	.15	5.5	2.5	.23	9.7	15	--	--	--	--
19...	.13	4.4	3.5	.41	6.7	11	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	.07	9.0	9.5	.44	11	20	--	4600	1500	7700
20...	.12	5.4	2.9	.85	3.9	9.3	--	--	--	7000
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	.18	7.0	2.4	.30	10	17	--	--	--	13000
20...	--	--	--	--	--	--	--	--	--	--
20...	.11	6.0	2.8	.35	6.7	13	--	--	--	7300

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAM- PLING SECTION (FT FW L BANK)	TRANS- PAR- ENCY	SECCHI (DISK (IN))	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM CARBON DAYS LAGTIME AT 20C (R2135)
		(00003)	(00009)	(00077)	(00198)	(00199)	(00200)	(00302)			
AUG	1719	1.00	3900	25.0	5.50	---	---	.500	---	---	---
20...	1931	1.00	300	12.0	---	---	---	---	---	---	---
25...	1940	---	30000	---	---	---	---	---	---	0	0
25...	2015	---	40000	---	---	---	---	---	---	0	0
28...	1241	1.00	300	23.0	9.00	---	---	1.000	1400	---	---
28...	1245	---	30000	---	---	---	---	---	---	0	0
28...	1246	1.00	1000	23.0	---	3.500	---	.900	1300	---	---
28...	1300	---	40000	---	---	---	---	---	---	0	0
28...	1309	1.00	3100	23.0	8.40	---	---	.820	1350	---	---
SEP	1652	1.00	300	26.0	4.50	---	---	.600	750	---	---
03...	1700	---	30000	---	---	---	---	---	---	0	0
03...	1705	1.00	1000	31.0	5.00	---	---	.500	700	---	---
03...	1727	1.00	3100	24.0	6.50	---	---	.500	---	---	---
03...	1730	---	40000	---	---	---	---	---	---	0	0
03...	1742	1.00	3800	31.0	9.00	---	---	1.300	---	---	---
04...	1407	1.00	300	23.0	---	---	---	---	---	---	---
04...	1410	1.00	1000	23.0	---	---	---	---	---	---	---
04...	1420	---	30000	---	---	---	---	---	---	0	0
04...	1427	1.00	3100	30.0	---	---	---	---	---	---	---
04...	1430	---	40000	---	---	---	---	---	---	0	0
08...	1201	3.00	300	30.0	---	---	---	---	---	---	---
08...	1205	2.00	1000	30.0	---	---	---	---	---	---	---
08...	1215	---	30000	---	---	---	---	---	---	0	0
08...	1222	3.00	3100	32.0	---	---	---	---	---	---	---
08...	1225	---	40000	---	---	---	---	---	---	0	0
08...	1237	3.00	3800	32.0	---	---	---	---	---	---	---
11...	1922	3.00	300	22.0	---	---	---	---	---	0	0
11...	1940	---	30000	---	---	---	---	---	---	0	0
11...	2000	---	40000	---	---	---	---	---	---	0	0
15...	1500	---	40000	---	---	---	---	---	---	0	0
15...	1503	1.00	3100	23.0	9.00	---	---	.580	1100	---	---
15...	1507	1.00	3900	25.0	8.70	---	---	.420	1100	---	---
15...	1522	1.00	300	23.0	---	---	---	.750	1100	---	---
15...	1525	---	30000	---	---	---	---	---	---	0	0
15...	1530	1.00	1000	20.0	---	---	---	.340	1100	---	---
16...	1600	---	3700	---	9.00	---	---	---	150	0	0
16...	1607	3.00	3400	28.0	9.00	---	---	---	250	---	---
16...	1612	3.00	500	28.0	6.50	---	---	---	---	---	---
16...	1620	---	500	---	---	---	---	---	---	0	0

01652590 APPENDIX A
 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS. LAGTIME AT 20C (82135)	DEOXYGE NATION VITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROS. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREPT- TOCOCOI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
AUG 20...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	.13	5.2	5.0	.35	3.7	8.9	--	--	--	--
25...	.11	5.1	5.2	.26	5.1	10	--	--	--	--
28...	.17	6.5	10.1	.59	9.4	16	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	.13	4.2	5.4	.23	5.4	9.5	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
SEP 03...	--	--	--	--	--	--	--	--	--	--
03...	.21	8.2	5.4	.35	9.4	18	--	--	--	14000
03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
03...	.15	3.5	4.3	.60	6.0	9.7	--	5150	180	6900
03...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	.16	4.3	5.1	.39	10	15	--	--	--	6900
04...	--	--	--	--	--	--	--	--	--	--
04...	.15	2.9	5.8	.26	9.1	12	--	--	--	3300
08...	--	--	--	--	--	--	--	--	--	--
08...	.16	4.3	7.4	.55	11	15	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	.12	3.4	5.3	.57	6.7	10	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	.17	7.3	7.4	.39	10	17	--	--	--	--
11...	.13	3.7	3.4	.23	8.6	12	--	--	--	--
15...	.16	3.5	5.5	.36	7.4	11	--	9100	0	<11000
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	.14	6.3	5.3	.41	12	18	--	--	--	7700
15...	--	--	--	--	--	--	--	--	--	--
16...	.10	4.3	2.6	.44	8.8	13	--	--	--	2000
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	.13	6.2	3.5	.35	15	21	--	--	--	--

APPENDIX A
 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

01652590

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOC- ATTN	CROSS SECTION	DEPTH (FT FM L BANK)	PLING DEPTH (FEET)	TRANS- PAR- ENCY	SECCHI DISK (IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (U-EINS /SQM/S)	LIGHT INCID. 400-700NM INTENS.	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (A2135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
SEP 22...	1420	3400										.00	.0
SEP 22...	1445	600										.00	.0

DATE	TIME	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (A2133)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (A2135)	DEOXYGE NATION KI TO BASE E PER DAY AT 20C (A2133)	DEOXYGE NATION KI TO BASE E PER DAY AT 20C (A2132)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (A2135)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (A2132)	OXYGEN DEMAND, UNINHIB ULT. (MG/L) (00319)	OXYGEN DEMAND, UNINHIB ULT. (MG/L) (00321)	OXYGEN DEMAND, UNINHIB ULT. (MG/L) (00321)	DEOXY- GE NATION KI TO BASE E PER DAY AT 20C (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
SEP 22...	.11	7.9	2.6	.39	.39	6.9	6.9	15	15	15				
SEP 22...	.13	4.7	4.3	.47	.47	12	12	17	17	17				

APPENDIX A
 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

01652590

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE: LOC- ATION, CROSS SECTION (FT FW)	TRANS- PAR- ENCY (SECCHI DISK TV)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTEVS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (B2135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
OCT										
02...	1327	1.00	300	26.0	9.50	--	.330	400	--	--
02...	1330	1.00	1000	30.0	17.0	--	.250	520	--	--
02...	1335	--	40000	--	--	--	--	--	.00	--
02...	1355	1.00	3100	30.0	9.50	--	1.000	250	--	--
02...	1400	--	30000	--	--	--	--	--	.00	--
02...	1412	1.00	3800	25.0	9.50	--	1.000	1200	--	--
03...	1142	1.00	600	19.0	--	--	--	--	--	--
03...	1148	1.00	3400	26.0	--	--	--	--	--	--
07...	1140	--	3400	--	--	--	--	--	.00	--
15...	0940	--	40000	--	--	--	--	--	.00	--
15...	0943	3.00	3800	44.0	--	--	--	--	.00	--
15...	0947	3.00	3100	35.0	--	--	--	--	--	--
15...	0955	--	30000	--	--	--	--	--	.00	--
15...	0957	3.00	1000	35.0	--	--	--	--	--	--
15...	1002	3.00	300	36.0	--	--	--	--	--	--
21...	0853	1.00	3100	26.0	5.40	--	1.800	240	--	--
21...	0900	--	40000	--	--	--	--	--	.00	--
21...	0903	1.00	3900	30.0	4.90	--	1.800	440	--	--
21...	0917	1.00	600	18.0	3.00	--	1.000	620	--	--
21...	0930	--	500	--	--	--	--	--	.00	--
27...	1030	--	40000	--	--	--	--	--	.00	--
27...	1115	--	30000	--	--	--	--	--	.00	--
NOV										
06...	1042	2.00	3400	41.0	--	--	--	--	--	--
06...	1100	--	3400	--	--	--	--	--	.00	--
06...	1130	--	500	--	--	--	--	--	.00	--
06...	1137	2.00	600	41.0	--	--	--	--	--	--
10...	1405	--	600	--	--	--	--	--	.00	--
10...	1500	--	3400	--	--	--	--	--	.00	--
18...	1427	2.00	3100	28.0	9.00	--	--	150	--	--
18...	1432	2.00	3800	22.0	6.00	--	--	200	--	--
18...	1440	--	40000	--	--	--	--	--	.00	--
25...	1352	2.00	3400	24.0	--	--	--	--	.00	--
25...	1355	--	3400	--	--	--	--	--	.00	--
25...	1405	--	600	--	--	--	--	--	.00	--
DEC										
02...	1410	--	3400	--	--	--	--	--	.00	--
02...	1420	--	600	--	--	--	--	--	.00	--
08...	1145	--	3400	--	--	--	--	--	.00	--
08...	1152	3.00	3400	25.0	--	--	--	--	--	--
08...	1200	--	600	--	--	--	--	--	.00	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (82131)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UV-MF (COLS./ 100 ML) (31616)	STREPTO- COCCI, FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
OCT 02....	--	--	--	--	--	--	--	--	--	--
02....	--	--	--	--	--	--	--	--	--	--
02....	.13	4.0	3.5	.73	11	15	--	--	--	--
02....	--	--	--	--	--	--	--	--	--	--
02....	.14	3.7	3.5	.71	9.3	13	--	--	--	--
02....	--	--	--	--	--	--	--	--	--	--
03....	--	--	--	--	--	--	--	--	--	--
03....	--	--	--	--	--	--	--	--	--	--
07....	.10	5.3	.79	.21	9.2	15	--	--	--	--
15....	.17	3.4	3.7	.26	7.5	11	--	--	--	--
15....	--	--	--	--	--	--	--	--	--	--
15....	.14	5.2	5.2	.44	10	16	--	--	--	--
15....	--	--	--	--	--	--	--	--	--	--
15....	--	--	--	--	--	--	--	--	--	--
21....	.09	3.9	5.8	.47	6.9	11	--	--	--	3100
21....	--	--	--	--	--	--	--	--	--	--
21....	--	--	--	--	--	--	--	--	--	--
21....	.14	4.2	5.8	.70	7.5	12	--	--	--	14000
27....	.14	3.5	4.8	.29	6.6	10	--	--	--	--
27....	.12	9.2	5.5	.51	3.4	13	--	--	--	--
NOV 06....	--	--	--	--	--	--	--	--	--	--
06....	.15	3.0	4.0	.22	3.8	6.8	--	--	--	--
06....	.12	3.4	5.5	.54	5.2	8.6	--	--	--	--
06....	--	--	--	--	--	--	--	--	--	--
10....	.18	3.2	3.1	.18	6.7	9.9	--	--	--	--
10....	.14	2.4	3.4	.11	4.6	7.0	--	--	--	--
18....	--	--	--	--	--	--	--	--	--	--
18....	.15	3.5	3.1	.17	4.5	8.1	--	240	4200	940
18....	--	--	--	--	--	--	--	--	--	--
25....	.16	2.9	5.0	.12	3.3	6.2	--	--	--	--
25....	.13	4.5	5.1	.22	4.5	9.0	--	--	--	--
DEC 02....	.13	3.5	5.5	.09	6.0	9.6	--	--	--	--
07....	.07	4.9	4.4	.15	4.2	9.1	--	--	--	--
08....	.18	2.0	4.7	.11	3.4	5.4	--	--	--	--
08....	--	--	--	--	--	--	--	--	--	--
08....	.16	2.8	1.7	.11	4.3	7.1	--	--	--	--

APPENDIX A
 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

01652590

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- DEPTH (FEET)	SAMPLER LOC- ATION, CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY DISK (IN)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	(00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L)	(00302)
DEC																
08...	1217	3.00	600	25.0	--	--	--	--	--	--	--	--	--	--	--	--
16...	1442	1.00	300	30.0	11.5	--	--	--	--	175	--	--	--	--	--	--
16...	1449	--	400	--	--	--	--	--	--	--	--	--	--	0.00	--	--
16...	1451	1.00	1000	26.0	--	3.500	--	--	--	165	--	--	--	--	--	--
16...	1455	--	30000	--	--	--	--	--	--	--	--	--	--	0.00	--	--
16...	1509	1.00	3100	29.0	7.75	--	--	--	--	110	--	--	--	--	--	--
16...	1517	1.00	3900	34.0	8.30	--	--	--	--	70.0	--	--	--	--	--	--
16...	1525	--	3200	--	--	--	--	--	--	--	--	--	--	0.00	--	--
16...	1530	--	40000	--	--	--	--	--	--	--	--	--	--	0.00	--	--
24...	1330	--	600	--	--	--	--	--	--	--	--	--	--	0.00	--	--
24...	1345	--	3400	--	--	--	--	--	--	--	--	--	--	0.00	--	--
29...	1012	3.00	3400	43.0	--	--	--	--	--	--	--	--	--	0.00	--	--
29...	1015	--	3400	--	--	--	--	--	--	--	--	--	--	0.00	--	--
29...	1026	3.00	600	38.0	--	--	--	--	--	--	--	--	--	0.00	--	--
29...	1030	--	600	--	--	--	--	--	--	--	--	--	--	0.00	--	--
JAN																
07...	1235	--	3400	--	--	--	--	--	--	--	--	--	--	0.00	--	--
15...	1315	--	3400	--	--	--	--	--	--	--	--	--	--	0.00	--	--
15...	1320	--	600	--	--	--	--	--	--	--	--	--	--	0.00	--	--
15...	1323	3.00	600	72.0	--	--	--	--	--	--	--	--	--	--	--	--
23...	1335	--	600	--	--	--	--	--	--	--	--	--	--	0.00	--	--
23...	1341	3.00	600	42.0	--	--	--	--	--	--	--	--	--	0.00	--	--
23...	1355	--	3400	--	--	--	--	--	--	--	--	--	--	0.00	--	--
23...	1402	3.00	3400	46.0	--	--	--	--	--	--	--	--	--	0.00	--	--
28...	1200	--	600	--	--	--	--	--	--	--	--	--	--	0.00	--	--
28...	1202	3.00	600	50.0	--	--	--	--	--	--	--	--	--	0.00	--	--
28...	1210	--	3400	--	--	--	--	--	--	--	--	--	--	0.00	--	--
28...	1222	3.00	3400	48.0	--	--	--	--	--	--	--	--	--	0.00	--	--
FER																
02...	1419	3.00	500	56.0	--	--	--	--	--	--	--	--	--	0.00	--	--
02...	1420	--	500	--	--	--	--	--	--	--	--	--	--	0.00	--	--
02...	1425	--	3400	--	--	--	--	--	--	--	--	--	--	0.00	--	--
04...	0917	2.00	3400	48.0	9.00	--	--	--	--	600	--	--	--	0.00	--	--
04...	0920	--	3400	--	--	--	--	--	--	--	--	--	--	0.00	--	--
04...	0950	--	600	--	--	--	--	--	--	--	--	--	--	0.00	--	--
04...	0956	3.00	500	48.0	13.0	--	--	--	--	850	--	--	--	0.00	--	--
11...	1116	2.00	600	18.0	--	--	--	--	--	--	--	--	--	0.00	--	--
11...	1120	--	600	--	--	--	--	--	--	--	--	--	--	0.00	--	--
11...	1150	--	3400	--	--	--	--	--	--	--	--	--	--	0.00	--	--
12...	1445	--	3400	--	--	--	--	--	--	--	--	--	--	0.00	--	--
17...	1140	--	600	--	--	--	--	--	--	--	--	--	--	0.00	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYG NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. NITROG. LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GEVA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
DEC 0R...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
09	2.7	3.5	.21	2.8	5.5					
16...	--	--	--	--	5.3					2200
16...	2.8	3.2	.22	2.5						
16...	--	--	--	--	--					
16...	--	--	--	--	--					
06	2.9	3.6	.30	2.4	5.2		130	1750		2000
10	3.0	2.8	.21	2.2	5.2					
07	3.5	5.4	.25	5.5	9.0					
13	2.5	5.2	.23	3.1	5.7					
29...	--	--	--	--	--					
18	3.0	7.3	.22	2.4	5.4					
29...	--	--	--	--	--					
29...	3.2	4.5	.25	5.8	9.0					
JAN 07...	4.0	5.7	.41	4.0	8.0					
09	4.3	5.5	.27	7.1	11					
15...	3.2	5.9	.16	12	15					
15...	--	--	--	--	--					
23...	7.8	5.4	.28	11	19					
23...	--	--	--	--	--					
07	4.4	5.2	.22	5.8	10					
23...	--	--	--	--	--					
12	5.3	5.4	.28	8.8	14					
28...	--	--	--	--	--					
12	4.0	5.4	.31	8.8	13					
28...	--	--	--	--	--					
28...	--	--	--	--	--					
FER 02...	--	--	--	--	--					
12	4.7	4.1	.24	8.5	13					
02...	4.7	4.4	.48	5.5	10					
04...	--	--	--	--	--					
10	4.5	3.3	.28	3.8	8.4					
04...	5.3	2.7	.27	6.9	12		2500	7285		
04...	--	--	--	--	--					
11...	--	--	--	--	--					
11...	7.9	5.0	.41	3.9	12					
11...	6.9	11.5	--	1.3	8.2					
12...	6.9	4.5	.17	2.5	9.4					
08	6.9	5.3	.13	5.2	12					
05	--	--	--	--	--					

01652590 APPENDIX A
 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	TRANS- PAR- ENCY DISK (IN)	(00077)	LIGHT DEPTH TO 1%	OF	SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 10%	OF	SURFACE LIGHT (FEET)	(00198)	LIGHT DEPTH TO 50%	OF	700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L)	(00302)	
FER	17...	---	3400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17...	1212	3.00	3400	---	---	12.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23...	1225	---	500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23...	1227	3.00	500	---	---	12.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23...	1300	---	3400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23...	1303	3.00	3400	---	---	12.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
24...	1315	---	500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
24...	1400	---	3400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
24...	1405	---	3400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
24...	1410	---	3400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25...	1551	3.00	500	---	---	6.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25...	1555	---	500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25...	1637	3.00	3400	---	---	6.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25...	1640	---	3400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
26...	1545	---	500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
26...	1551	3.00	500	---	---	5.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
26...	1557	3.00	3400	---	---	5.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
26...	1600	---	3400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
27...	1040	---	500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
27...	1042	3.00	500	---	---	24.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
27...	1050	---	3400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MAR	0945	---	500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04...	0947	2.00	500	---	---	24.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04...	1000	---	3400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04...	1003	2.00	3400	---	---	24.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11...	1015	---	500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11...	1030	---	3400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11...	1034	3.00	3400	---	---	24.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18...	0704	2.00	3400	---	---	27.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18...	0705	---	3400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18...	0722	2.00	500	---	---	30.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18...	0725	---	500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
24...	1117	3.00	3400	---	---	35.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25...	1539	3.00	3400	---	---	30.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25...	1550	---	500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25...	1550	3.00	500	---	---	36.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25...	1552	---	500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
31...	1340	---	500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
31...	1342	3.00	500	---	---	22.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

01652590 APPENDIX A -- POTOMAC R AT ALEXANDRIA, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARRON K1 TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS, LAGTIME AT 20C (92135)	DEOXYGE NATION NITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-VF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
17...	.09	4.9	5.5	.15	3.6	8.4	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
23...	.10	6.2	4.9	.23	4.6	11	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	.10	6.3	3.5	.17	3.3	9.6	--	--	--	4900
23...	--	--	--	--	--	--	--	--	--	--
24...	.11	6.3	6.5	.16	6.9	13	--	--	--	--
24...	.17	3.1	10.5	.56	2.5	5.6	--	--	--	--
24...	.14	5.2	9.5	.47	.96	6.2	--	--	--	--
24...	.17	5.9	.00	.08	6.2	12	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	.11	8.5	2.3	.23	4.0	13	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	.11	6.5	4.4	.14	2.4	9.0	--	--	--	--
26...	.09	5.8	4.5	.14	5.4	11	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
26...	.10	3.5	1.4	.12	1.7	5.4	--	--	--	--
27...	.10	2.0	8.1	.20	4.9	6.9	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	.09	3.1	8.2	.50	.87	3.9	--	--	--	--
MAP										
04...	.07	4.9	5.0	.15	4.3	9.1	--	--	--	3700
04...	--	--	--	--	--	--	--	--	--	--
04...	.10	2.2	3.1	.15	1.5	3.7	--	40	130	<5700
04...	--	--	--	--	--	--	--	--	--	--
11...	.12	3.3	5.1	.21	2.1	5.4	--	--	--	--
11...	.13	2.5	5.7	.23	1.8	4.4	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
18...	.14	3.1	5.0	.14	1.9	5.0	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
18...	.14	3.0	3.8	.15	3.1	6.1	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
25...	.11	3.9	5.9	.55	1.4	5.3	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	.08	4.3	5.4	.25	3.9	8.2	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
31...	.18	4.2	6.5	.31	4.3	8.5	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--

APPENDIX A
 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

01652590

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SAMPLE LOC- ATION CROSS SECTION (FT FM L BANK) (00009)	TRANS- PAR- ENCY (SECKI DISK) (IN) (00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET) (00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET) (00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET) (00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S) (00200)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
MAR										
	31...	3.00	3400						.00	.00
	31...	3.00	3400	16.0						
APR										
	06...	3.00	600						.00	.00
	1248	3.00	600	18.0					.00	.00
	06...	3.00	3400						.00	.00
	1320	3.00	600						.00	.00
	2050	3.00	3400						.00	.00
	14...	3.00	3400						.00	.00
	2115	3.00	3400						.00	.00
	0745	3.00	3400						.00	.00
	15...	2.00	3400		4.10		1500		.00	.00
	15...	2.00	600	19.0	4.40		1600		.00	.00
	0812	3.00	3400						.00	.00
	15...	3.00	3400	6.0					.00	.00
	15...	3.00	3400						.00	.00
	1200	3.00	3400						.00	.00
	15...	3.00	3400						.00	.00
	1210	3.00	3400						.00	.00
	1300	3.00	600						.00	.00
	15...	3.00	600						.00	.00
	1140	3.00	3400						.00	.00
	17...	3.00	600						.00	.00
	1130	3.00	3400						.00	.00
	1200	3.00	600						.00	.00
	17...	3.00	3400						.00	.00
	1245	3.00	3400						.00	.00
	21...	3.00	600						.00	.00
	1310	3.00	3400						.00	.00
	21...	3.00	600						.00	.00
	1235	3.00	3400						.00	.00
	28...	2.00	3400	24.0					.00	.00
	28...	3.00	600						.00	.00
	1320	3.00	3400						.00	.00
	28...	2.00	500	36.0					.00	.00
MAY										
	0810	3.00	3400						.00	.00
	04...	3.00	3400	18.0					.00	.00
	0818	3.00	3400						.00	.00
	04...	3.00	500						.00	.00
	0825	3.00	600	17.0					.00	.00
	04...	3.00	600	36.0					.00	.00
	12...	3.00	600						.00	.00
	0911	3.00	500						.00	.00
	12...	3.00	3400						.00	.00
	0935	3.00	3400						.00	.00
	19...	3.00	3400						.00	.00
	0750	3.00	3400						.00	.00
	19...	2.00	3400	24.0	2.700		45.0		.00	.00
	0806	3.00	500						.00	.00
	19...	2.00	500	24.0	6.00		31.0		.00	.00
	19...	2.00	500	30.0					.00	.00
	1043	3.00	3400						.00	.00
	26...	3.00	3400						.00	.00
	1045	3.00	600						.00	.00
	26...	3.00	600						.00	.00
JUN										
	01...	3.00	500						.00	.00

APPENDIX A

01652590

- POTOMAC R AT ALEXANDRIA, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM NITROG. DAYS LAGTIME AT 20C (92135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00319)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00325)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
MAR									
31....	.20	4.4	14.2	--	2.4	6.8	--	--	19000
31....	--	--	--	--	--	--	--	--	--
APR									
06....	.17	5.3	5.4	.46	8.8	14	--	--	--
06....	--	--	--	--	--	--	--	--	--
06....	.16	6.4	8.5	.37	6.5	13	--	--	--
14....	.21	4.7	3.2	.21	6.2	11	--	--	--
14....	.13	5.9	1.5	.16	3.0	8.9	--	--	<28000
15....	.15	3.5	2.9	.15	2.2	5.8	--	--	7900
15....	--	--	--	--	--	--	--	--	--
15....	--	--	--	--	--	--	--	--	--
15....	.18	4.4	1.5	.17	4.8	9.2	--	655	19000
15....	--	--	--	--	--	--	--	--	--
15....	.16	2.5	.02	.08	4.4	7.0	--	--	--
15....	.10	4.8	1.2	.15	1.9	6.7	--	--	--
15....	.17	4.2	1.7	.12	4.1	8.3	--	--	--
16....	.13	3.1	1.9	.09	4.2	7.3	--	--	<6500
17....	.09	3.8	4.1	.17	1.5	5.3	--	--	--
17....	.12	3.3	6.7	.27	2.0	5.2	--	--	--
21....	.18	2.8	7.2	.28	1.4	4.2	--	--	--
21....	.15	2.7	2.7	.11	5.5	8.2	--	--	--
28....	.14	4.4	3.8	.27	2.9	7.4	--	--	--
28....	--	--	--	--	--	--	--	--	--
28....	.14	7.7	3.7	.14	6.4	14	--	--	16000
28....	--	--	--	--	--	--	--	--	--
MAY									
04....	.15	4.1	5.5	.21	3.3	7.4	--	--	--
04....	--	--	--	--	--	--	--	--	--
04....	.16	4.3	8.8	.32	2.8	7.2	--	--	--
04....	--	--	--	--	--	--	--	--	--
12....	--	--	--	--	--	--	--	--	--
12....	.15	5.7	4.2	.30	7.3	13	--	--	--
12....	.15	3.2	5.7	.38	3.1	6.3	--	--	--
19....	.11	2.8	5.7	.36	2.6	5.4	--	--	4700
19....	--	--	--	--	--	--	--	--	--
19....	.08	3.8	1.2	.12	4.2	8.0	--	--	8000
19....	--	--	--	--	--	--	--	--	--
26....	--	--	--	--	--	--	--	--	--
26....	.11	3.4	3.8	.12	2.0	5.4	--	--	--
26....	.15	4.7	7.8	.33	3.1	7.8	--	--	--
JUN									
01....	.15	3.9	3.9	.09	4.5	8.3	--	--	--

01652590 APPENDIX A
 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LOC- ATION	CROSS SECTION (FT FM L BANK)	(00009)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	(00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L)	(00302)	(82135)
JUN 01...	1836	2.00		600			24.0													
01...	1850			3400																
11...	1330			3400																
11...	1345			600																
24...	1240			600																
24...	1300			3400																
30...	0925			3400																
30...	0935	2.00		3400			24.0	5.00							1700					
30...	1007	2.00		600			24.0	5.50							650					
30...	1010			600																
JUL 08...	2040			30000																
08...	2047	1.00		300			24.0	7.00												
08...	2050	2.00		1000			24.0													
08...	2120			40000																
10...	1910	15.00		3400			31.0													
15...	1717	2.00		600			30.0	5.80							2100					
15...	1730			600																
15...	1739	2.00		3400			25.0	5.00							1600					
15...	1740			3400																
20...	0717	1.00		1000			26.0													
20...	0722	1.00		300			30.0													
20...	0730			30000																
20...	0744	1.00		3100			30.0													
20...	0750			40000																
20...	0802	1.00		3800			36.0													
20...	1904	1.00		300			22.0													
20...	1916	1.00		1000			10.0								50.0					
20...	1820			30000											40.0					
20...	1939	1.00		3100			22.0													
20...	1955	1.00		3800			12.0								50.0					
20...	1900			40000											10.0					
21...	0626	1.00		1000			30.0													
21...	0630			30000																
21...	0633	1.00		300			36.0													
21...	0649	1.00		3100			32.0													
21...	0650			40000																
21...	0658	1.00		3800			36.0													
21...	1634	1.00		300			30.0	7.00							900					
21...	1647	1.00		1000			28.0								800					

APPENDIX A
 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

01652590

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYG NATION CARBON KI TO BASE F PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MS/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. LAGTIME AT 20C (92135)	DEOXYG NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00319)	OXYGEN DEMAND, RIOCHEM UNINHIB ULT. (MG/L) (00325)	DEOXY- GENA- TION CON- STANT KI TO BASE F (00325)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML) (31616)	STREP- TOCCCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUN 01...	--	--	--	--	--	--	--	--	--	--	--
01...	.14	3.1	5.7	.22	3.1	6.1	6.1	--	--	--	--
11...	.06	2.8	5.1	.35	.79	3.6	3.6	--	--	--	--
16...	.16	4.8	5.3	.19	4.9	9.7	9.7	--	--	--	--
24...	.08	4.7	5.5	.26	2.2	6.8	6.8	--	--	--	--
24...	.08	2.7	4.0	.13	2.5	5.2	5.2	--	--	--	8200
30...	.11	2.4	7.2	.38	2.9	5.3	5.3	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
30...	.16	3.4	4.9	.11	3.7	7.2	7.2	--	--	--	<20000
JUL 08...	.23	5.5	5.6	.17	4.5	10	10	--	--	--	>19000
08...	--	--	--	--	--	--	--	--	--	--	--
08...	.20	3.0	9.0	.21	2.2	5.2	5.2	--	--	--	>13000
10...	--	--	--	--	--	--	--	--	--	--	--
15...	.17	5.8	7.1	.23	2.5	8.4	8.4	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	.12	3.0	5.5	.10	7.2	10	10	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	.19	6.5	5.5	.17	6.1	13	13	--	--	--	>13000
20...	.19	4.8	10.4	.46	4.3	9.1	9.1	--	--	--	>7900
20...	--	--	--	--	--	--	--	--	--	--	--
20...	.19	9.1	5.5	.17	5.2	14	14	--	--	--	>11000
20...	--	--	--	--	--	--	--	--	--	--	--
20...	.12	7.8	11.8	.25	4.9	13	13	--	--	--	>7400
21...	.15	5.8	8.1	.33	3.9	9.8	9.8	--	--	--	>7600
21...	--	--	--	--	--	--	--	--	--	--	--
21...	.18	4.4	5.9	.44	2.6	7.0	7.0	6800	555	--	>9000
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--

01652590 APPENDIX A
 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE/ LOC- ATION, CROSS SECTION (FT FW)	TRANS- PAR- ENCY (DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM. CARBON, LAGTIME AT 20C (82135)
		(00003)	(00009)	(00077)	(00034)	(00198)	(00199)	(00200)	(00302)	(00302)
JUL										
21....	1700	---	30000	---	---	---	---	---	.0	.00
21....	1709	1.00	3100	32.0	6.83	---	---	1000	---	---
21....	1717	1.00	3800	---	7.00	---	---	1100	---	---
21....	1720	---	40000	---	---	---	---	---	.0	.00
22....	0642	2.00	10000	30.0	2.00	---	.500	78.0	---	.00
22....	0645	---	30000	---	---	---	---	---	.0	.00
22....	0656	1.00	300	30.0	1.00	---	.170	80.0	---	---
22....	0708	1.00	3100	30.0	4.00	---	.250	150	---	---
22....	0720	---	40000	---	---	---	---	---	.0	.00
22....	0723	1.00	3800	30.0	7.00	---	.500	200	---	---
28....	1202	1.60	500	23.0	---	---	---	---	---	---
28....	1205	---	500	---	---	---	---	---	.0	.00
28....	1225	---	3400	---	---	---	---	---	.0	.00
28....	1234	1.60	3400	25.0	---	---	---	---	---	---
AUG										
06....	1244	1.00	3100	15.0	4.30	---	.500	170	---	---
06....	1245	---	40000	---	---	---	---	---	.0	.00
06....	1254	1.00	3800	15.0	4.30	---	.170	250	---	---
06....	1307	1.00	300	---	5.00	---	.250	110	---	---
06....	1315	---	30000	---	---	---	---	---	.0	.00
06....	1316	2.00	1000	---	---	---	.750	100	---	---
18....	1500	---	500	---	---	---	---	---	.0	.00
18....	1506	1.60	500	24.0	---	---	---	---	.0	.00
18....	1515	---	40000	---	---	---	---	---	.0	.00
18....	1525	1.60	3100	24.0	---	---	---	---	---	---
18....	1537	1.60	3800	24.0	---	---	---	---	---	---
24....	1722	1.00	300	19.0	4.90	---	.500	500	---	.00
24....	1745	---	30000	---	---	---	---	---	.0	.00
24....	1753	1.00	3100	23.0	5.40	---	.600	350	---	.00
24....	1755	---	40000	---	---	---	---	---	.0	.00
24....	1803	1.00	3800	---	5.00	---	.500	180	---	---
25....	0710	1.00	300	18.0	4.83	---	.750	75.0	---	---
25....	0718	1.00	1000	19.0	3.83	---	.750	110	---	---
25....	0720	---	30000	---	---	---	---	---	.0	.00
25....	0744	1.00	3100	16.0	4.75	---	.670	225	---	---
25....	0750	---	40000	---	---	---	---	---	.0	.00
25....	0751	1.00	3800	18.0	4.50	---	.670	350	---	---
25....	1755	---	30000	---	---	---	---	---	.0	.00
25....	1758	1.00	300	22.0	4.70	---	.300	210	---	---
25....	1802	1.00	1000	23.0	4.50	---	.500	240	---	---

APPENDIX A
 01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULIT. CARBON- ACOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS. LAGTIME AT 20C (82135)	DEOXYGE NATION VITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROS. ULIT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUL 21....	.17	7.3	5.5	.16	4.8	13	--	--	--	>10000
JUL 21....	--	--	--	--	--	--	--	--	--	--
JUL 21....	.19	5.5	7.7	.28	3.0	9.5	--	--	--	>13000
JUL 22....	--	--	--	--	--	--	--	--	--	--
JUL 22....	.18	6.1	5.3	.20	3.6	9.7	--	--	--	>9200
JUL 22....	--	--	--	--	--	--	--	--	--	--
JUL 22....	--	--	--	--	--	--	--	--	--	--
JUL 22....	.17	4.5	5.3	.17	3.8	8.4	--	310	--	>11000
JUL 22....	--	--	--	--	--	--	--	--	--	--
JUL 28....	--	--	--	--	--	--	--	--	--	--
JUL 28....	.13	5.7	5.5	.26	5.8	12	--	--	--	>12000
JUL 28....	.06	5.7	4.0	.37	3.4	9.1	--	--	--	>12000
JUL 28....	--	--	--	--	--	--	--	--	--	--
AUG 06....	--	5.9	.43	.12	4.9	12	--	315	50	46000
AUG 06....	--	--	--	--	--	--	--	--	--	--
AUG 06....	--	--	--	--	--	--	--	--	--	--
AUG 06....	.18	8.9	1.7	.12	3.5	12	--	--	--	50000
AUG 06....	--	--	--	--	--	--	--	--	--	--
AUG 18....	.19	9.2	--	.00	.00	9.2	--	--	--	>14000
AUG 18....	--	--	--	--	--	--	--	--	--	--
AUG 18....	.16	6.3	--	.00	.00	6.3	--	--	--	>15000
AUG 18....	--	--	--	--	--	--	--	--	--	--
AUG 18....	--	--	--	--	--	--	--	--	--	--
AUG 24....	--	--	--	--	--	--	--	--	--	--
AUG 24....	.16	8.4	2.4	.15	5.0	13	--	--	--	>24000
AUG 24....	--	--	--	--	--	--	--	--	--	--
AUG 24....	.16	6.9	2.8	.15	4.7	12	--	--	--	>11000
AUG 24....	--	--	--	--	--	--	--	--	--	--
AUG 25....	--	--	--	--	--	--	--	--	--	--
AUG 25....	.18	6.1	3.5	.20	4.4	11	--	--	--	>15000
AUG 25....	--	--	--	--	--	--	--	--	--	--
AUG 25....	.15	6.4	2.3	--	5.0	12	--	380	400	>15000
AUG 25....	--	--	--	--	--	--	--	--	--	--
AUG 25....	.18	7.5	2.0	.05	6.5	14	--	--	--	>19000
AUG 25....	--	--	--	--	--	--	--	--	--	--
AUG 25....	--	--	--	--	--	--	--	--	--	--

01652590 APPENDIX A
 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SAMPLING DEPTH (FEET)	TRANS- PAR- ENCY (SECHI DISK) (IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400-700NM (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMMEDIATE (MG/L) (00302)
AUG 25...	1818	1.00 3100	---	20.0	4.70	---	.350	160	---	---
25...	1820	--- 40000	---	---	---	---	---	---	---	.00
25...	1827	1.00 3800	---	---	---	---	---	280	---	---
26...	0707	1.00 300	---	18.0	---	2.100	.250	40.0	---	---
26...	0714	1.00 1000	---	18.0	---	1.900	.170	60.0	---	---
26...	0715	--- 30000	---	---	---	---	---	---	---	.00
26...	0732	1.00 3100	---	18.0	5.00	---	.670	160	---	---
26...	0740	1.00 3800	---	18.0	5.00	---	.670	225	---	---
26...	0745	--- 40000	---	---	---	---	---	---	---	.00
26...	1712	1.00 300	---	19.0	4.60	---	.600	800	---	---
26...	1718	1.00 1000	---	---	4.50	---	.400	730	---	---
26...	1720	--- 30000	---	---	---	---	---	---	---	.00
26...	1733	1.00 3100	---	17.0	4.10	---	.300	680	---	---
26...	1740	--- 40000	---	---	---	---	---	---	---	.00
26...	1743	1.00 3800	---	19.0	4.00	---	.400	520	---	---
SEP 01...	1307	2.00 500	---	30.0	---	---	---	---	---	---
01...	1310	--- 500	---	---	---	---	---	---	---	.00
01...	1328	1.00 3400	---	18.0	---	---	---	---	---	---
01...	1330	--- 3400	---	---	---	---	---	---	---	.00
10...	0720	--- 3400	---	---	---	---	---	---	---	.00
10...	0737	1.00 3400	---	24.0	---	---	---	---	---	---
10...	0804	1.60 500	---	24.0	---	---	---	---	---	---
10...	0805	--- 500	---	---	---	---	---	---	---	.00
16...	1230	--- 500	---	---	---	---	---	---	---	.00
16...	1300	--- 3400	---	---	---	---	---	---	---	.00
16...	1310	1.00 3400	---	22.0	---	---	---	---	---	.00
22...	0950	--- 500	---	---	---	---	---	---	---	.00
22...	0957	1.60 500	---	25.0	---	---	---	---	---	.00
22...	1015	--- 3400	---	---	---	---	---	---	---	.00
22...	1020	1.60 3400	---	26.0	---	---	---	---	---	.00

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION K1 TO BASE E PER DAY AT 20C (92133) (92135)	OXYGEN DEMAND, BIOCHEM ULT. CARBON ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. DAYS LAGTIME AT 20C (92135)	DEOXYGE NATION K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXYGE NATION K1 TO BASE E (00325)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTOPLANKTON, TOTAL (CELLS PER ML) (60050)
AUG 25....	..	7.7	3.5	..	2.7	10	..	90	4450	>16000
25....	.17	..	..	.37	..	..	..	..	..	..
26....	..	..	..	..	..	..	..	..	..	..
26....	..	..	..	..	..	..	..	..	..	..
26....	.14	6.3	2.5	.25	3.7	10	..	..	..	>11000
26....	..	..	..	..	..	..	..	..	..	..
26....	..	..	..	..	..	..	..	..	..	..
26....	.16	6.9	2.0	.24	3.9	11	..	66	98	>14000
26....	..	..	..	..	..	..	..	..	..	..
26....	.16	8.1	5.9	.66	1.4	9.5	..	..	..	>24000
26....	..	..	..	..	..	..	..	..	..	..
26....	.17	6.9	3.2	.66	3.2	10	..	..	..	>21000
26....	..	..	..	..	..	..	..	..	..	..
SEP 01....	..	5.9	1.3	..	3.2	9.1	..	..	..	..
01....	.17	..	..	.36	..	..	..	..	..	..
01....	..	..	..	..	..	..	..	..	..	..
01....	.17	5.5	1.5	.49	2.9	8.5	..	..	..	..
10....	.10	3.9	1.0	.25	3.0	6.9	..	..	..	..
10....	..	..	..	..	..	..	..	..	..	..
10....	..	..	..	..	..	..	..	..	..	..
10....	.11	5.1	2.0	.29	2.7	7.8	..	..	..	..
16....	.11	5.9	.53	.17	2.8	8.6	..	..	..	..
16....	.12	4.4	2.2	.19	2.7	7.1	..	..	..	..
16....	..	..	..	..	..	..	..	..	..	..
22....	.13	3.7	2.9	.26	3.4	7.1	..	..	..	>5300
22....	..	..	..	..	..	..	..	..	..	..
22....	.13	2.9	1.5	.27	2.2	5.1	..	..	..	>5000
22....	..	..	..	..	..	..	..	..	..	..

APPENDIX A
 384605077015900 - POTOMAC RIVER AT ROSIER BLUFF

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAMPLING DEPTH (FEET)	SAMPLE LOCATION	TRANS- PAR- ENCY (SECCHI DISK) (IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400-700NM (U-EINS /SQM/S)	OXYGEN DEMAND, IMV-DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)
JUL 19...	0750	500							-.3	.50
19...	0905	1100							.0	.00
19...	0815	2000							-.4	.56
19...	0820	2900							.0	.00
19...	0835	500							-.7	.78
19...	0840	1100							-.5	.74
19...	0845	1100							*1.0	.80
19...	0850	2000							-.4	.51
19...	0900	2900							.0	.00
19...	0955	500							.0	.00
19...	1010	2000							-.4	.36
19...	1020	2900							.0	.00
19...	1120	500							.0	.00
19...	1130	1100							-.8	.62
19...	1140	2000							.0	.00
19...	1145	2900							.0	.00
19...	1300	500							.0	.00
19...	1315	1100							-.5	.45
19...	1325	2000							.0	.00
19...	1330	2900							.0	.00
19...	1435	500							.0	.00
19...	1450	1100							.0	.00
19...	1500	2000							.0	.00
19...	1505	2900							.0	.00
19...	1605	500							.0	.00
19...	1615	1100							.0	.00
19...	1621	2000							.5	.47
19...	1715	500							.0	.00
19...	1723	1100							.0	.00
19...	1733	2000							.0	.00
19...	1742	2900							.0	.00
19...	1805	2900							.0	.00
19...	1859	500							.0	.00
19...	1908	1100							.0	.00
19...	1915	2000							.0	.00
19...	1923	2900							.0	.00
19...	2025	500							.0	.00
19...	2044	2000							.0	.00
19...	2052	2900							.0	.00

384605077015800 - POTOMAC RIVER AT ROSIER BLUFF --Cont.
 APPENDIX A

WATER QUALITY DATA WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	DEOXYGENATION CARBON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. LAGTIME AT 20C (82136)	DEOXYGENATION CARBON KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXYGENATION STANT KI TO BASE E (00325)	COLIFORMS, FECA, 0.45 UM-WF (COLS./100 ML) (31616)	STREPTOCOCCI, FECA, KF AGAR (COLS. PER 100 ML) (31673)	PHYTOPLANKTON, TOTAL (CELLS PER ML) (60050)
JUL 19.00	.14	4.5	5.5	.42	7.3	12	--	--	--	
19.00	.12	6.7	4.8	.29	7.8	14	--	--	--	
19.00	.30	2.4	4.5	.30	8.5	11	--	--	--	
19.00	.17	5.5	4.8	.39	6.2	12	--	--	--	
19.00	.17	5.1	5.7	.28	7.0	12	--	--	--	
19.00	.09	7.9	4.9	.43	5.2	13	--	--	--	
19.00	.20	6.0	6.4	.40	5.5	12	--	--	--	
19.00	.13	6.0	5.5	.39	5.2	11	--	--	--	
19.00	.14	6.0	6.7	.40	6.5	12	--	--	--	
19.00	.13	6.6	7.3	.63	8.0	15	--	--	--	
19.00	.32	3.2	4.7	.24	5.8	9.1	--	--	--	
19.00	.11	5.5	4.8	.35	3.4	8.9	--	--	--	
19.00	.09	11	7.3	.57	6.8	17	--	--	--	
19.00	.22	5.5	5.4	.27	3.3	8.8	--	--	--	
19.00	.12	7.7	5.8	.76	2.2	10	--	--	--	
19.00	.11	9.0	5.2	.22	2.5	11	--	--	--	
19.00	.11	8.5	7.3	1.1	4.0	12	--	--	--	
19.00	.15	7.3	7.1	.48	3.3	11	--	--	--	
19.00	.13	7.8	7.3	.79	2.7	10	--	--	--	
19.00	.17	5.5	6.7	.35	5.2	12	--	--	--	
19.00	.20	7.3	5.5	.30	7.4	15	--	--	--	
19.00	.25	4.9	4.5	.25	6.7	12	--	--	--	
19.00	.17	7.2	6.4	.37	4.7	12	--	--	--	
19.00	.12	9.4	7.0	.55	3.5	13	--	--	--	
19.00	.08	11	5.5	.58	3.9	15	--	--	--	
19.00	.09	7.8	7.3	.79	4.8	13	--	--	--	
19.00	.21	5.5	7.0	.24	7.1	13	--	--	--	
19.00	.20	5.2	6.8	.35	7.2	13	--	--	--	
19.00	.12	6.9	7.7	.36	5.1	12	--	--	--	
19.00	.23	5.8	9.8	.37	6.7	12	--	--	--	
19.00	.21	5.7	7.3	.50	5.6	11	--	--	--	
19.00	.23	5.4	7.1	.35	4.8	10	--	--	--	
19.00	.16	5.9	7.1	.57	6.6	13	--	--	--	
19.00	.09	9.2	7.6	.52	6.9	15	--	--	--	
19.00	.19	4.7	7.1	.52	6.4	11	--	--	--	
19.00	.15	6.1	6.5	.42	4.5	11	--	--	--	
19.00	.21	5.5	7.0	.56	6.5	12	--	--	--	
19.00	.13	5.9	7.1	.25	4.5	10	--	--	--	
19.00	.10	8.1	7.2	.70	3.1	11	--	--	--	

384605077015900 - POTOMAC RIVER AT ROSIER BLUFFI --Cont.

WATER QUALITY DATA - WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAMPLE LOCATION CROSS SECTION (FT F.M. L BANK)	DEPTH TO 1% OF SURFACE LIGHT (FEET)	TRANS- PAR- ENCY (SECCHI DISK (IN)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM. CARBON. DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
AUG									
	0950	---	50000	---	---	---	---	.00	.00
	1950	---	---	---	---	---	---	.00	.00
	0935	---	50000	---	---	---	---	.00	.00
	1730	---	---	---	---	---	---	.00	.00
	0720	---	---	---	---	---	---	.00	.00
	1705	---	---	---	---	---	---	.00	.00
SEP									
	0400	---	---	---	---	---	---	.00	.00
	0500	---	---	---	---	---	---	.00	.00

DATE	TIME	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM. ULT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM. NITROG. DAYS LAGTIME AT 20C (82136)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM. NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-4F (COLS./ 100 ML) (31616)	STREP- TOCOCCEI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
AUG											
	0950	.19	5.3	4.2	.24	4.4	9.7	---	---	---	47000
	1950	.21	6.0	5.8	.53	6.3	12	---	---	---	---
	0935	.16	3.8	4.2	.27	4.1	7.9	---	---	---	---
	1730	.11	6.2	9.5	1.0	2.6	8.8	---	---	---	---
	0720	.09	4.5	3.5	.25	5.0	9.6	---	---	---	---
	1705	.17	8.5	4.5	.47	3.8	12	---	---	---	---
SEP											
	0400	.15	6.3	2.2	.73	3.0	9.3	---	---	---	---
	0500	.15	5.5	3.5	.90	4.0	9.6	---	---	---	56000

APPENDIX A
 384605077015800 - POTOMAC RIVER AT ROSIER BLUFF | --Cont.

WATER QUALITY DATA - WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT FMI L BANK)	TRANS- PAR- ENCY (SECCHI DISK (IN))	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM CARBON DAYS LAGTIME AT 20C (82135)
OCT	0830	--	800	--	--	--	--	--	0.00	--
	0834	1.00	800	7.0	--	--	--	--	--	--
APR	1130	3.00	800	17.0	--	--	--	--	--	--
JUN	1650	2.00	625	22.0	--	--	--	--	--	--
	1242	3.00	625	19.0	--	--	--	--	--	--
	1250	3.00	1600	15.0	--	--	--	--	--	--
	1256	2.00	3600	18.0	--	--	--	--	--	--
	0802	4.00	625	31.0	--	--	--	--	--	--
	0830	3.00	2500	23.0	--	--	--	--	--	--
	0836	2.00	3600	24.0	--	--	--	--	--	--
	0917	4.00	625	30.0	--	--	--	--	--	--
	0925	3.00	1600	28.0	--	--	--	--	--	--
	0930	3.00	2500	26.0	--	--	--	--	--	--
	0941	2.00	3600	31.0	--	--	--	--	--	--
	0957	4.00	625	31.0	--	--	--	--	--	--
	1020	3.00	2500	24.0	--	--	--	--	--	--
	1032	2.00	3600	29.0	--	--	--	--	--	--
	1132	4.00	625	29.0	--	--	--	--	--	--
	30.00	3.00	1600	25.0	--	--	--	--	1.9	1.7
	30.00	---	50000	---	--	--	--	--	--	--
	30.00	3.00	2500	23.0	--	--	--	--	--	--
	30.00	2.00	3600	24.0	--	--	--	--	--	--
	30.00	4.00	625	29.0	--	--	--	--	--	--
	30.00	3.00	1600	23.0	--	--	--	--	--	--
	30.00	3.00	2500	22.0	--	--	--	--	--	--
	30.00	2.00	3600	23.0	--	--	--	--	--	--
	30.00	4.00	625	24.0	--	--	--	--	--	--
	30.00	3.00	1600	23.0	--	--	--	--	--	--
	30.00	3.00	2500	20.0	--	--	--	--	--	--
	30.00	2.00	3600	24.0	--	--	--	--	--	--
	30.00	4.00	625	25.0	--	--	--	--	--	--
	30.00	3.00	1600	23.0	--	--	--	--	--	--
	30.00	3.00	2500	20.0	--	--	--	--	--	--
	30.00	2.00	3600	23.0	--	--	--	--	--	--
	30.00	4.00	625	23.0	--	--	--	--	--	--
	30.00	3.00	1600	23.0	--	--	--	--	--	--
	30.00	3.00	2500	22.0	--	--	--	--	--	--
	30.00	---	50000	---	--	--	--	--	0.9	0.72
	30.00	2.00	3600	22.0	--	--	--	--	--	--

APPENDIX A
 384605077015800 - POTOMAC RIVER AT ROSIER BLUFFI --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FIT F.M. L BANK)	TRANS- PAR- ENCY (SECCHI DISK IV)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, TIME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (82135)
		(00003)	(00009)	(00077)	(00034)	(00198)	(00199)	(00200)	(00302)	(82135)
JUN	1737	4.00	625	23.0	--	--	--	--	--	--
30...	1745	3.00	1600	22.0	--	--	--	--	--	--
30...	1750	3.00	2500	20.0	--	--	--	--	--	--
30...	1801	2.00	3600	25.0	--	--	--	--	--	--
30...	1833	4.00	625	23.0	--	--	--	--	--	--
30...	1840	3.00	1500	23.0	--	--	--	--	--	--
30...	1850	3.00	2500	20.0	--	--	--	--	--	--
30...	1856	2.00	3600	20.0	--	--	--	--	--	--
30...	1933	4.00	625	25.0	--	--	--	--	--	--
30...	1945	3.00	1600	19.0	--	--	--	--	--	--
30...	1950	3.00	2500	19.0	--	--	--	--	--	--
30...	1956	2.00	3600	23.0	--	--	--	--	--	--
30...	2032	4.00	625	24.0	--	--	--	--	--	--
JUL	1410	3.00	1600	33.0	--	--	--	--	--	--
04...	1422	3.00	625	37.0	--	--	--	--	--	--
04...	1440	2.00	3600	28.0	--	--	--	--	--	--
09...	1300	--	50000	--	--	--	--	--	--	0.68
09...	1303	3.00	625	27.0	--	--	--	--	--	--
09...	1315	2.00	1600	31.0	--	--	--	--	--	--
09...	1321	2.00	3600	27.0	--	--	--	--	--	--
16...	1242	1.00	625	30.0	--	--	--	--	--	--
16...	1251	1.00	1600	30.0	--	--	--	--	--	--
16...	1302	1.00	3600	29.0	--	--	--	--	--	--
23...	0742	1.00	625	23.0	--	--	--	--	--	--
23...	0745	--	50000	--	--	--	--	--	--	0.00
23...	0751	1.00	1600	23.0	--	--	--	--	--	--
23...	0801	1.00	3600	24.0	--	--	--	--	--	--
23...	1617	1.00	625	30.0	--	--	--	--	--	--
23...	1631	1.00	1600	24.0	--	--	--	--	--	--
23...	1640	--	50000	--	--	--	--	--	--	0.00
23...	1642	1.00	3600	24.0	--	--	--	--	--	--
30...	0612	1.00	625	24.0	--	--	--	--	--	--
30...	0621	1.00	1600	24.0	--	--	--	--	--	--
30...	0625	--	50000	--	--	--	--	--	--	0.00
30...	0631	1.00	3600	23.0	--	--	--	--	--	--
30...	1617	3.00	625	22.0	--	--	--	--	--	--
30...	1635	3.00	1600	22.0	--	--	--	--	--	--
30...	1641	3.00	3600	23.0	--	--	--	--	--	--
30...	1650	--	50000	--	--	--	--	--	--	0.00

APPENDIX A
 384605077015900 - POTOMAC RIVER AT ROSIER BLUFFI --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. (00320)	OXYGEN DEMAND, BIOCHEM NITROS, DAYS LAGTIME AT 20C (82136)	DEOXYGE NATION NITROG, KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG, ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	JEQXY- SEVA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUN	30.000	---	---	---	---	---	---	---	---	---
30.000	---	---	---	---	---	---	---	---	---	---
30.000	---	---	---	---	---	---	---	---	---	---
30.000	---	---	---	---	---	---	---	---	---	---
30.000	---	---	---	---	---	---	---	---	---	---
30.000	---	---	---	---	---	---	---	---	---	---
30.000	---	---	---	---	---	---	---	---	---	---
30.000	---	---	---	---	---	---	---	---	---	---
30.000	---	---	---	---	---	---	---	---	---	---
30.000	---	---	---	---	---	---	---	---	---	---
30.000	---	---	---	---	---	---	---	---	---	---
30.000	---	---	---	---	---	---	---	---	---	---
30.000	---	---	---	---	---	---	---	---	---	---
30.000	---	---	---	---	---	---	---	---	---	---
JUL	04.000	---	---	---	---	---	---	---	---	---
04.000	---	---	---	---	---	---	---	---	---	---
04.000	---	---	---	---	---	---	---	---	---	---
09.000	.11	9.2	9.9	.56	4.9	14	---	---	---	---
09.000	---	---	---	---	---	---	---	---	---	---
09.000	---	---	---	---	---	---	---	---	---	---
16.000	---	---	---	---	---	---	---	---	---	---
16.000	---	---	---	---	---	---	---	---	---	---
23.000	---	---	---	---	---	---	---	---	---	---
23.000	.10	5.1	6.4	.27	6.3	11	---	5400	2380	14000
23.000	---	---	---	---	---	---	---	---	---	---
23.000	---	---	---	---	---	---	---	---	---	---
23.000	---	---	---	---	---	---	---	---	---	---
23.000	.15	4.7	6.9	.19	6.9	12	---	---	---	16000
23.000	---	---	---	---	---	---	---	---	---	---
30.000	---	---	---	---	---	---	---	---	---	---
30.000	---	---	---	---	---	---	---	---	---	---
30.000	.14	4.5	10.7	.71	6.2	11	---	16300	430	9200
30.000	---	---	---	---	---	---	---	---	---	---
30.000	---	---	---	---	---	---	---	---	---	---
30.000	---	---	---	---	---	---	---	---	---	---
30.000	.13	7.0	9.5	.76	5.4	12	---	---	---	13000

384605077015800 - POTOMAC RIVER AT ROSIER BLUFFI --Cont.
 APPENDIX A

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (SECCHI DISK IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON, LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
AUG 04...	0615	---	50000	---	---	---	---	---	.00	.0
04...	0632	1.00	625	19.0	---	---	---	---	---	---
04...	0646	1.00	1600	20.0	---	---	---	---	---	---
04...	0651	1.00	3600	23.0	---	---	---	---	---	---
04...	1607	1.00	625	24.0	7.00	---	.500	---	---	---
04...	1630	---	50000	---	---	---	---	---	.00	.0
04...	1632	1.00	1600	34.0	8.30	---	.500	---	---	---
04...	1647	1.00	3600	24.0	---	---	.500	---	---	---
05...	0552	1.00	625	19.0	---	---	1.000	275	---	---
05...	0600	---	50000	---	---	---	---	---	.00	.0
05...	0602	1.00	1600	24.0	---	---	---	---	---	---
05...	0611	1.00	3600	25.0	---	---	1.400	---	---	---
05...	0635	---	50000	---	---	---	---	---	.00	.0
05...	0655	1.00	625	32.0	---	---	.500	117	---	---
05...	0710	1.00	1600	20.0	---	---	.500	215	---	---
05...	0840	---	50000	---	---	---	---	---	.00	.0
05...	0850	1.00	625	34.0	---	3.000	.900	778	---	---
05...	0858	1.00	1600	24.0	---	2.700	.500	819	---	---
05...	0903	1.00	3600	34.0	---	.300	.900	1020	---	---
05...	1030	1.00	625	35.0	---	---	.500	1400	---	---
05...	1033	---	50000	---	---	---	---	---	.00	.0
05...	1035	1.00	1600	30.0	---	2.800	.500	1470	---	---
05...	1048	1.00	3600	31.0	---	3.200	.600	1500	---	---
05...	1158	1.00	625	35.0	---	3.200	.700	1730	---	---
05...	1200	---	50000	---	---	---	---	---	.00	.0
05...	1206	1.00	1600	32.0	---	3.100	.700	1800	---	---
05...	1211	1.00	3600	35.0	---	3.000	.500	1830	---	---
05...	1610	1.00	625	34.0	---	---	---	---	---	---
05...	1618	1.00	1600	28.0	---	---	---	---	---	---
05...	1624	1.00	3600	34.0	---	---	---	---	---	---
05...	1802	3.00	625	22.0	---	---	1.000	30.0	---	---
05...	1815	---	50000	---	---	---	---	---	.00	.0
05...	1821	2.00	3600	24.0	---	---	---	---	---	---
05...	1842	1.00	625	25.0	---	---	---	---	---	---
05...	1850	1.00	1600	24.0	---	---	1.000	---	---	---
05...	1853	---	50000	---	---	---	---	---	---	---
05...	1903	1.00	3600	26.0	---	---	---	---	.00	.0
05...	1940	1.00	625	24.0	---	---	---	---	---	---
05...	1945	1.00	1600	22.0	---	---	---	---	---	---

APPENDIX A
 384605077015900 - POTOMAC RIVER AT ROSIER BLUFF/ --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS. DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCOCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
AUG										
04...	.12	6.9	4.2	.53	5.0	12	---	2450	2020	4900
04...	---	---	---	---	---	---	---	---	---	---
04...	---	---	---	---	---	---	---	---	---	---
04...	---	---	---	---	---	---	---	---	---	---
04...	---	---	---	---	---	---	---	---	---	---
04...	.18	7.3	7.5	.22	7.2	14	---	---	---	<15000
04...	---	---	---	---	---	---	---	---	---	---
04...	---	---	---	---	---	---	---	---	---	---
05...	---	---	---	---	---	---	---	---	---	---
05...	.15	6.0	3.4	.35	6.1	12	---	0	1320	7300
05...	---	---	---	---	---	---	---	---	---	---
05...	.15	8.0	---	---	---	---	---	---	---	---
05...	---	---	---	---	---	---	---	---	---	---
05...	.18	---	---	---	---	---	---	---	---	---
05...	---	---	---	---	---	---	---	---	---	---
05...	---	---	---	---	---	---	---	---	---	---
05...	---	---	---	---	---	---	---	---	---	---
05...	.16	7.0	---	---	---	---	---	---	---	---
05...	---	---	---	---	---	---	---	---	---	---
05...	---	---	---	---	---	---	---	---	---	---
05...	.19	6.3	---	---	---	---	---	---	---	---
05...	---	---	---	---	---	---	---	---	---	---
05...	---	---	---	---	---	---	---	---	---	---
05...	---	---	---	---	---	---	---	---	---	---
05...	---	---	---	---	---	---	---	---	---	---
05...	.25	13	---	---	---	---	---	---	---	3500
05...	---	---	---	---	---	---	---	---	---	---
05...	---	---	---	---	---	---	---	---	---	---
05...	---	---	---	---	---	---	---	---	---	---
05...	.10	10	---	---	---	---	---	---	---	---
05...	---	---	---	---	---	---	---	---	---	---
05...	---	---	---	---	---	---	---	---	---	---
05...	---	---	---	---	---	---	---	---	---	---

APPENDIX A
 384605077015900 - POTOMAC RIVER AT ROSIER BLUFF --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT FM BANK)	TRANS- PAR- ENCY (SECKI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)
		(00003)	(00009)	(00077)	(00034)	(00198)	(00199)	(00200)	(00302)	(00302)
AUG 05...	1952	1.00	3600	23.0	--	--	--	--	--	--
05...	1955	---	50000	--	--	--	--	--	0	.00
06...	0547	1.00	625	18.0	--	--	--	--	--	--
06...	0556	1.00	1600	22.0	--	--	--	--	--	--
06...	0606	1.00	3600	24.0	--	--	--	--	--	--
06...	0610	---	50000	--	--	--	--	--	0	.00
06...	0710	1.00	625	30.0	3.000	3.000	.900	215	--	--
06...	0719	1.00	1600	24.0	--	2.700	1.800	276	--	--
06...	0720	---	50000	--	--	--	--	--	0	.00
06...	0735	1.00	3600	29.0	--	6.100	.900	655	--	--
06...	0839	1.00	625	25.0	5.60	--	.700	880	--	--
06...	0845	1.00	1600	25.0	4.60	--	.900	833	--	--
06...	0850	---	50000	--	--	--	--	--	0	.00
06...	0855	1.00	3600	31.0	5.50	--	1.100	933	--	--
06...	1020	1.00	625	30.0	5.60	--	.800	1530	--	--
06...	1030	---	50000	--	--	--	--	--	0	.00
06...	1038	1.00	1600	25.0	5.00	--	1.300	1570	--	--
06...	1045	1.00	3600	30.0	6.10	--	.800	1700	--	--
06...	1135	1.00	625	30.0	6.00	--	.700	1770	--	--
06...	1142	1.00	1600	30.0	5.10	--	.800	1930	--	--
06...	1145	---	50000	--	--	--	--	--	0	.00
06...	1150	1.00	3600	36.0	6.60	--	.800	2000	--	--
06...	1449	1.00	625	34.0	6.50	--	--	--	--	--
06...	1452	---	50000	--	--	--	--	--	0	.00
06...	1456	1.00	1600	24.0	4.20	--	--	--	--	--
06...	1459	1.00	3600	35.0	5.00	--	--	--	--	--
06...	1559	1.00	625	35.0	7.00	--	--	--	--	--
06...	1604	1.00	625	--	7.50	--	2.000	575	--	--
06...	1605	3.00	1600	26.0	5.20	--	--	--	--	--
06...	1607	---	50000	--	--	--	--	--	0	.00
06...	1609	1.00	1600	18.0	7.00	--	1.000	1000	--	--
06...	1611	1.00	3600	36.0	7.00	--	--	--	--	--
06...	1615	---	50000	--	--	--	--	--	0	.00
06...	1621	1.00	3600	--	8.00	--	1.500	575	--	--
06...	1704	1.00	625	28.0	7.00	--	--	--	--	--
06...	1707	1.00	1600	36.0	6.50	--	--	--	--	--
06...	1710	---	50000	--	--	--	--	--	0	.00
06...	1818	1.00	625	26.0	7.00	--	--	--	--	--
06...	1822	1.00	1600	25.0	6.00	--	--	--	--	--

APPENDIX A
384605077015900 - POTOMAC RIVER AT ROSIER BLUFFI --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON ACFOUS (M3/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS. LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROS. ULT. (MG/LP) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREPT- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
AUG 05...	--	--	--	--	--	--	--	--	--	--
05...	.18	7.4	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	.16	6.9	1.7	.11	6.6	13	--	1900	608	3900
06...	--	--	--	--	--	--	--	--	--	--
06...	.15	9.3	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	.20	6.9	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	.16	6.5	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	.14	6.9	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	.21	6.5	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	.18	8.9	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	.13	5.4	7.9	.18	6.6	12	--	--	--	9200
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	.24	5.5	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--

APPENDIX A
 394605077015900 - POTOMAC RIVER AT ROSIER BLUFF#1 --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LDC- ATION, CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)
		(00003)	(00009)	(00077)	(00034)	(00198)	(00199)	(00200)	(00302)	(00302)
AUG 06...	1830	---	50000	---	---	---	---	---	.0	.00
06...	1934	1.00	625	26.0	5.00	---	---	---	---	---
06...	1937	1.00	1600	24.0	5.20	---	---	---	---	---
06...	1943	1.00	3600	23.0	5.50	---	---	---	---	---
06...	1945	---	50000	---	---	---	---	---	.0	.00
07...	0622	1.00	525	23.0	---	---	1.200	7.00	---	---
07...	0626	1.00	1600	26.0	8.00	---	.800	14.0	---	---
07...	0631	1.00	3600	24.0	---	---	1.500	15.5	---	---
07...	0640	---	50000	---	---	---	---	---	.0	.00
07...	1645	---	50000	---	---	---	---	---	.0	.00
07...	1648	3.00	625	14.0	6.50	---	1.000	850	---	---
07...	1655	4.00	1600	19.0	8.00	---	1.000	750	---	---
07...	1702	3.00	3600	24.0	7.50	---	1.000	1000	---	---
08...	0547	1.00	625	18.0	---	---	---	---	---	---
08...	0551	1.00	1600	17.0	---	---	---	---	---	---
08...	0600	---	50000	---	---	---	---	---	.0	.00
08...	0602	1.00	3600	---	---	---	1.500	---	---	---
08...	1617	3.00	625	16.0	5.00	---	.900	1400	---	---
08...	1625	3.00	1600	18.0	5.00	---	1.000	1050	---	---
08...	1636	3.00	3600	22.0	6.50	---	1.000	1000	---	---
08...	1645	---	50000	---	---	---	---	---	.0	.00
11...	1630	---	50000	---	---	---	---	---	.0	.00
11...	1637	3.00	625	19.0	6.00	---	.500	1000	---	---
11...	1645	2.00	1600	24.0	6.10	---	1.400	900	---	---
11...	1651	3.00	3600	24.0	8.00	---	.670	900	---	---
13...	0553	1.00	625	18.0	---	---	---	---	---	---
13...	0600	---	50000	---	---	---	---	---	.0	.00
13...	0602	1.00	1600	20.0	---	---	1.200	---	---	---
13...	0612	1.00	3600	23.0	---	---	1.300	---	---	---
13...	1610	---	50000	---	---	---	---	---	.0	.00
13...	1615	1.00	625	18.0	6.50	---	1.000	600	---	---
13...	1621	1.00	1600	18.0	---	---	.340	450	---	---
13...	1627	1.00	3600	22.0	8.00	---	1.000	500	---	---
20...	0608	1.00	625	24.0	---	---	---	---	---	---
20...	0616	1.00	1600	19.0	---	---	---	---	---	---
20...	0620	---	50000	---	---	---	---	---	---	---
20...	0622	1.00	3600	20.0	---	---	---	---	.0	.00
20...	1609	1.00	525	34.0	3.50	---	1.000	---	---	---
20...	1615	---	50000	---	---	---	---	---	.0	.00

APPENDIX A
384605077015900 - POTOMAC RIVER AT ROSIER BLUFFS --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON KI TO BASE F PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MS/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS. DAYS LAGTIME AT 20C (92135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROS. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
AUG 06....	.17	11								
06....										
06....										
06....										
06....	.19	9.5								
07....										
07....										
07....										
07....	.19	3.7	1.5	.20	7.4	11		8400	1920	3400
07....	.19	6.4	2.3	.59	5.8	12				<20000
07....										
07....										
07....										
08....	.13	5.1	1.6	.32	5.6	11		5100	2020	2700
08....										
08....										
08....										
08....										
08....	.19	6.8	2.0	.22	5.8	13				
11....	.16	12	5.7	.39	2.9	15				
11....										
11....										
11....										
13....										
13....	.11	4.5	3.5	.44	6.8	11		24400	0	
13....										
13....	.19	6.8	2.0	.19	11	17				<22000
13....										
13....										
13....										
20....										
20....	.10	4.8	2.9	.57	7.1	12		900	400	3700
20....										
20....										
20....	.12	4.2	3.3	.36	7.4	12				

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (SECCHI DISK (IN))	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, CARBON, DAYS LAGTIME AT 20C (82135)
		(00003) (00009)	(00077)	(00034)	(00198)	(00199)	(00200)	(00302)	(002135)

AUG	1621	1.00 1600	36.0	4.00	---	1.000	---	---	---
20...	1627	1.00 3600	34.0	3.90	---	1.400	---	---	---
25...	1815	---	50000	---	---	---	---	0.0	0.00
25...	1831	1.00 625	23.0	---	---	1.170	100	---	---
25...	1841	1.00 1600	---	---	---	1.000	---	---	---
25...	1846	1.00 3600	16.0	---	---	0.330	50.0	---	---
SEP	1602	1.00 625	26.0	9.00	---	0.800	1400	---	---
03...	1610	---	50000	---	---	---	---	0.0	0.00
03...	1621	1.00 1600	36.0	8.00	---	2.500	460	---	---
03...	1627	1.00 3600	30.0	---	---	---	920	---	---
15...	1607	1.00 625	23.0	7.50	---	1.000	900	---	---
15...	1615	1.00 1600	23.0	5.00	---	1.000	850	---	---
15...	1620	---	50000	---	---	---	---	0.0	0.00
15...	1626	1.00 3600	---	6.00	---	0.500	950	---	---

DATE	TIME	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXYGE NATION CON- STANT K1 TO BASE F (00325)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31616)	STREP- TOCOCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS. PER ML) (60050)
------	------	--	--	--	--	--	--	--	--

AUG	20...	---	---	---	---	---	---	---	---
20...	20...	---	---	---	---	---	---	---	---
25...	20...	0.20	4.2	0.23	11	---	---	---	---
25...	25...	---	---	---	---	---	---	---	---
25...	25...	---	---	---	---	---	---	---	---
25...	25...	---	---	---	---	---	---	---	---
SEP	03...	---	---	---	---	---	---	---	---
03...	03...	0.17	3.4	0.79	8.8	---	170	0	3900
03...	03...	---	---	---	---	---	---	---	---
15...	03...	---	---	---	---	---	---	---	---
15...	15...	---	---	---	---	---	---	---	---
15...	15...	0.13	3.0	0.24	12	---	7050	0	49400
15...	15...	---	---	---	---	---	---	---	---

APPENDIX A
 384605077015R00 - POTOMAC RIVER AT ROSIER BLUFFS --Cont

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOCATION	SAMPLING DEPTH (FEET)	TRANS-PAR-ENCY (SECCHI DISK (IN))	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCIDENT. 400-700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMMEDIATE (MG/L)	OXYGEN DEMAND, BIOCHEMICAL CARBON. DAYS LAGTIME AT 20C (82135)
OCT										
02...	1436	625	1.00	24.0	9.50	--	1,500	1500	--	--
02...	1445	50000	--	--	--	--	--	--	.0	.00
02...	1457	3600	1.00	25.0	9.00	--	1,000	1100	--	--
02...	1542	1600	1.00	25.0	8.00	--	1,000	1400	--	--
03...	1137	625	1.00	29.0	--	--	--	--	--	--
0946	0946	525	1.00	26.0	6.40	--	2,000	500	--	--
21...	0950	525	--	--	--	--	--	--	.0	.00
NOV										
18...	1414	625	2.00	28.0	8.30	--	--	110	--	--
18...	1420	625	--	--	--	--	--	--	.0	.00
DEC										
16...	1410	625	26.0	--	--	--	--	--	--	1.0
16...	1417	625	1.00	24.0	7.25	--	--	210	--	--
16...	1422	1600	1.00	30.0	7.75	--	--	165	--	--
16...	1425	50000	--	--	--	--	--	--	--	1.0
16...	1428	3600	1.00	25.0	8.25	--	--	175	--	--
FFB										
04...	1020	625	--	--	--	--	--	--	.0	.00
04...	1026	625	2.00	42.0	11.0	--	--	100	--	--
MAR										
04...	0925	625	--	--	--	--	--	--	.0	.00
04...	0928	625	2.00	24.0	--	--	--	--	--	--
APR										
15...	0824	625	2.00	--	4.70	--	--	1600	--	--
15...	0830	525	--	--	--	--	--	--	--	--
MAY										
19...	0850	625	--	--	--	--	--	--	.0	.00
19...	085A	625	2.00	22.0	5.00	--	--	115	--	--
JUN										
30...	1054	625	2.00	26.0	6.00	--	--	1750	--	--
JUL										
08...	195A	625	2.00	24.0	--	--	--	--	--	--
08...	2000	50000	--	--	--	--	--	--	.0	.00
08...	2006	1600	2.00	24.0	--	--	--	--	--	--
08...	2016	3600	2.00	34.0	--	--	--	--	--	--
20...	0619	1600	2.00	30.0	--	--	--	--	--	--
20...	063A	625	1.00	36.0	--	--	--	--	--	--
20...	0640	50000	--	--	--	--	--	--	.0	.00
20...	0714	3600	2.00	30.0	--	--	--	--	--	--
20...	1638	525	2.00	40.0	5.50	--	--	700	--	--
20...	1704	1600	1.00	31.0	5.00	--	--	1000	--	--
20...	1719	3600	2.00	30.0	5.00	--	--	800	--	--
20...	1730	50000	--	--	--	--	--	--	.0	.00
21...	0552	3600	1.00	30.0	--	--	--	--	--	--

APPENDIX A
 384605077015900 - POTOMAC RIVER AT ROSIER BLUFF --Cont.

WATER QUALITY DATA - WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON ACEOUS (MS/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS. DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	JEKX- SENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCJCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
OCT 02...	..	..	..	..	..	..	..	..	..	..
02...	.15	3.8	3.5	.39	9.3	13	..	..	..	..
02...	..	..	..	..	..	..	..	..	..	..
02...	..	..	..	..	..	..	..	..	..	..
03...	..	..	..	..	..	..	..	..	..	..
21...	..	..	..	..	..	..	..	..	..	..
21...	.14	3.5	5.8	.58	6.9	10	..	..	..	4700
NOV 18...	..	..	..	..	..	..	..	..	..	..
18...	.14	3.2	3.1	.20	4.8	8.0	..	6350	572	1400
DEC 16...	.09	3.4	3.3	.24	2.4	5.9	..	..	..	..
16...	..	..	..	..	..	..	..	..	..	..
16...	..	..	..	..	..	..	..	..	..	..
16...	.09	3.4	4.0	.41	2.2	5.6	..	1200	240	980
16...	..	..	..	..	..	..	..	..	..	..
FEB 04...	.07	5.4	3.5	.33	4.5	10	..	2500	937	..
04...	..	..	..	..	..	..	..	..	..	..
MAP 04...	.09	2.5	4.5	.20	1.7	4.3	..	380	60	<1800
04...	..	..	..	..	..	..	..	..	..	..
APR 15...	..	..	..	..	..	..	..	..	..	..
15...	..	..	..	..	..	..	..	..	..	..
MAY 19...	.12	3.0	2.8	.16	2.7	5.7	..	..	..	2400
19...	..	..	..	..	..	..	..	..	..	..
JUN 30...	..	..	..	..	..	..	..	..	..	..
JUL 08...	..	..	..	..	..	..	..	..	..	..
08...	.14	4.7	7.3	.24	1.4	6.1	..	..	..	>8800
08...	..	..	..	..	..	..	..	..	..	..
08...	..	..	..	..	..	..	..	..	..	..
20...	..	..	..	..	..	..	..	..	..	..
20...	..	..	..	..	..	..	..	..	..	..
20...	.20	5.2	9.4	.37	3.7	8.9	..	850	4400	>7700
20...	..	..	..	..	..	..	..	..	..	..
20...	..	..	..	..	..	..	..	..	..	..
20...	..	..	..	..	..	..	..	..	..	..
20...	..	..	..	..	..	..	..	..	..	..
20...	..	..	..	..	..	..	..	..	..	..
20...	.20	5.7	7.5	.20	5.5	12	..	..	..	>8600
21...	..	..	..	..	..	..	..	..	..	..

APPENDIX A
384605077015800 - POTOMAC RIVER AT ROSIER BLUFFI --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	(00009)	L BANK)	(00077)	TRANS- PAR- ENCY	(SECCHI DISK)	(IN)	LIGHT DEPTH TO 1%	SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 10%	SURFACE LIGHT (FEET)	(00198)	LIGHT DEPTH TO 50%	INCID. 400- 700NM	OXYGEN DEMAND, BIOCHEM CARBON. DAYS	OXYGEN DEMAND, DIATE (MG/L)	(00302)	OXYGEN DEMAND, AT 20C	(82135)	
JUL	21...	1.00	50000																				
	0603	1.00	1600			36.0																	.00
	21...	1.00	625			42.0																	
	0611	1.00	3600			23.0								1100									
	21...	1.00	1600			28.0								1300									
	21...	1.00	50000																				.00
	1610	1.00	625			29.0								1500									
	1622	3.00	3500			36.0								.830									
	22...	1.00	50000																				
	0603	1.00	1600			30.0								.670									.00
	0615	1.00	625			36.0								.670									
	22...	1.00	1600																				
	0628	1.00	625			18.0								.750			160						
AUG	1343	1.00	625			15.0								1.000			100						.00
06...	1345	1.00	1600			18.0								1.000			55.0						
06...	1352	1.00	3600			22.0																	
06...	1401	1.00	50000			24.0																	
18...	1415	1.00	625			16.0								.800			830						
18...	1432	1.00	1600			28.0								.600			870						
18...	1435	1.00	1600			20.0								.700			450						.00
24...	1635	1.00	3600			20.0																	
24...	1654	1.00	1600			17.0																	
24...	1700	1.00	50000																				
24...	1709	1.00	3600			18.0																	
25...	0633	1.00	625			28.0								.250			150						
25...	0637	1.00	1600			22.0								.300			170						
25...	0645	1.00	50000																				
25...	0648	1.00	3600			18.0																	.00
25...	1716	1.00	625			23.0								.600			190						
25...	1722	1.00	1600			18.0																	
25...	1730	1.00	50000																				.00
25...	1734	1.00	3600			23.0																	
26...	0633	1.00	625			18.0																	
26...	0637	1.00	1600			17.0																	
26...	0645	1.00	50000																				
26...	0648	1.00	3600			17.0																	.00
26...	1643	1.00	625			16.0								.500			920						
26...	1650	1.00	50000																				
26...	1654	1.00	1600			18.0								.400			1080						.00
26...	1704	1.00	3600			19.0								.400			750						

APPENDIX A
 384605077015800 - POTOMAC RIVER AT ROSIER BLUFFI --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULIT. CARBON ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS, DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION VITROG, KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG, ULIT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUL 21...	.18	4.5	8.2	.26	5.4	10	--	18400	1670	>6700
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	.17	8.2	5.5	.23	5.9	14	--	--	--	>9000
21...	--	--	--	--	--	--	--	--	--	--
22...	.15	6.1	6.3	.18	4.6	11	--	0	2060	>7000
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
AUG 06...	--	--	--	--	--	--	--	--	--	--
06...	.21	8.9	1.9	.30	2.8	12	--	25	495	46000
06...	--	--	--	--	--	--	--	--	--	--
06...	.19	6.4	--	.00	.00	6.4	--	--	--	>9100
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	.20	7.5	1.3	.12	3.8	12	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	.15	6.0	2.1	.18	5.1	11	--	10	545	>9600
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	.17	7.0	1.8	.25	2.3	9.3	--	60	6900	>13000
25...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
26...	.16	5.5	5.7	.38	2.1	7.6	--	28	214	>17000
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
26...	.18	7.7	1.6	.06	3.8	12	--	--	--	>13000
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--

384318077020300 - POTOMAC RIVER AT HATTON POINT
APPENDIX A

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAMPLE LOCATION	TRANS- PAR- ENCY (SECCHI DISK) (IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400-700NM INTENS. (U-EINS) /SRM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM. CARBON. LAGTIME AT 20C (82135)
AUG									
29...	1020	50000	--	--	--	--	--	.0	.00
31...	0635	50000	--	--	--	--	--	.0	.00
SEP									
04...	0825	50000	--	--	--	--	--	.0	.00
18...	1250	50000	--	--	--	--	--	.0	.00

DATE	TIME	OXYGEN DEMAND, BIOCHEM. CARBON. ULT. (MG/L)	OXYGEN DEMAND, BIOCHEM. NITROG. ULT. (MG/L)	OXYGEN DEMAND, BIOCHEM. NITROG. ULT. (MG/L)	OXYGEN DEMAND, UNINHIB ULT. (MG/L)	DEOXY- GEVA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31616)	STREP- TOCOC CI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
AUG									
29...	.18	4.1	5.4	3.8	7.9	--	--	--	--
31...	.15	3.5	3.1	5.2	8.8	--	--	--	--
SEP									
04...	.18	3.9	.00	3.9	7.7	--	--	--	--
18...	.14	2.9	4.5	3.3	6.0	--	--	--	37000

APPENDIX A
 384318077020300 - POTOMAC RIVER AT HATTON POINT ---Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION CROSS- SECTION (FT FM L BANK)	TRANS- PAR- ENCY (SECCHI DISK IV)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTEVS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM- ICAL (MG/L)
0905	06...	1.00	1000	7.0	--	--	--	--	--	--
1150	22...	3.00	1000	18.0	--	--	--	--	--	--
1045	19...	3.00	1000	30.0	--	--	--	--	--	--
1610	17...	2.00	1000	22.0	--	--	--	--	--	--
1620	17...	2.00	300	28.0	--	--	--	--	--	--
1625	17...	--	50000	--	--	--	--	--	0.0	0.00
1148	27...	2.00	1000	25.0	--	--	--	--	0.0	0.00
1155	27...	--	50000	--	--	--	--	--	0.0	0.00
1203	27...	2.00	300	30.0	--	--	--	--	--	--
1210	27...	2.00	2400	19.0	--	--	--	--	--	--
1259	04...	2.00	1000	42.0	--	--	--	--	--	--
1300	04...	--	50000	--	--	--	--	--	0.0	0.00
1310	04...	2.00	2400	32.0	--	--	--	--	--	--
1213	09...	2.00	300	30.0	--	--	--	--	--	--
1220	09...	--	50000	--	--	--	--	--	-2.0	1.4
1224	09...	2.00	1000	24.0	--	--	--	--	--	--
1230	09...	2.00	2400	42.0	--	--	--	--	--	--
0703	11...	3.00	300	25.0	--	--	--	--	--	--
0728	11...	2.00	1000	25.0	--	--	--	--	--	--
0740	11...	2.00	1500	25.0	--	--	--	--	--	--
0750	11...	2.00	2200	34.0	--	--	--	--	--	--
0803	11...	2.00	300	29.0	--	--	--	--	--	--
0820	11...	--	50000	--	--	--	--	--	0.0	0.00
0833	11...	2.00	1000	23.0	--	--	--	--	--	--
0835	11...	2.00	1500	23.0	--	--	--	--	--	--
0845	11...	2.00	2200	24.0	--	--	--	--	--	--
0850	11...	2.00	2800	31.0	--	--	--	--	--	--
1018	11...	2.00	300	29.0	--	--	--	--	--	--
1038	11...	2.00	1000	31.0	--	--	--	--	--	--
1045	11...	2.00	1500	24.0	--	--	--	--	--	--
1055	11...	2.00	2200	24.0	--	--	--	--	--	--
1100	11...	2.00	2800	24.0	--	--	--	--	--	--
1149	11...	2.00	300	25.0	--	--	--	--	--	--
1203	11...	2.00	1000	31.0	--	--	--	--	--	--
1215	11...	2.00	1500	29.0	--	--	--	--	--	--
1250	11...	2.00	2200	34.0	--	--	--	--	--	--

APPENDIX A
 38431R077020300 - POTOMAC RIVER AT HATTON POINT --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION CROSS SECTION (FIT F.M. L BANK)	TRANS- PAR- ENCY (SECCI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)
		(00003)	(00009)	(00077)	(00034)	(00198)	(00199)	(00200)	(00302)	(00302)
JUL										
11...	1323	2.00	300	30.0	--	--	--	--	--	--
11...	1333	2.00	1000	30.0	--	--	--	--	--	--
11...	1345	2.00	1500	31.0	--	--	--	--	--	--
11...	1351	2.00	2200	46.0	--	--	--	--	--	--
11...	1503	2.00	300	31.0	--	--	--	--	--	--
11...	1525	---	50000	--	--	--	--	--	.0	--
11...	1529	2.00	1000	26.0	--	--	--	--	--	--
11...	1540	2.00	1500	23.0	--	--	--	--	--	--
11...	1545	2.00	2200	24.0	--	--	--	--	--	--
11...	1555	2.00	2800	31.0	--	--	--	--	--	--
11...	1633	2.00	300	32.0	--	--	--	--	--	--
11...	1653	2.00	1000	34.0	--	--	--	--	--	--
11...	1705	2.00	1500	20.0	--	--	--	--	--	--
11...	1710	2.00	2200	20.0	--	--	--	--	--	--
11...	1720	2.00	2800	18.0	--	--	--	--	--	--
11...	1733	2.00	300	35.0	--	--	--	--	--	--
11...	1753	2.00	1000	31.0	--	--	--	--	--	--
11...	1810	2.00	1500	23.0	--	--	--	--	--	--
11...	1815	2.00	2200	28.0	--	--	--	--	--	--
11...	1820	2.00	2800	14.0	--	--	--	--	--	--
16...	1202	1.00	300	31.0	--	--	--	--	--	--
16...	1212	1.00	1000	32.0	--	--	--	--	--	--
16...	1220	1.00	2400	26.0	--	--	--	--	--	--
16...	1225	---	50000	--	--	--	--	--	.0	--
23...	0823	---	50000	--	--	--	--	--	.0	--
23...	0825	28.0	300	--	--	--	--	--	--	--
23...	0827	1.00	300	24.0	--	--	--	--	--	--
23...	0842	1.00	1000	24.0	--	--	--	--	--	--
23...	0850	1.00	2400	26.0	--	--	--	--	--	--
23...	1827	1.00	300	30.0	--	--	--	--	--	--
23...	1837	1.00	1000	30.0	--	--	--	--	--	--
23...	1845	---	50000	--	--	--	--	--	.0	--
23...	1846	1.00	2400	39.0	--	--	--	--	--	--
30...	0652	1.00	300	26.0	--	--	--	--	--	--
30...	0705	---	50000	--	--	--	--	--	.0	--
30...	0708	1.00	1000	18.0	--	--	--	--	--	--
30...	0715	1.00	2400	19.0	--	--	--	--	--	--
30...	1714	3.00	300	23.0	--	--	--	--	--	--
30...	1723	3.00	1000	24.0	--	--	--	--	--	--

APPENDIX A
 384318077020300 - POTOMAC RIVER AT HATTON POINT --Cont.

WATER QUALITY DATA. WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM JLT. CARBON AT 20C (00320)	OXYGEN DEMAND, BIOCHEM NITROG. LAGTIME AT 20C (92135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCEI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUL										
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	.11	5.5	3.8	.11	12	17	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	.10	5.9	4.0	.20	5.5	12	--	--	--	--
23...	.10	4.9	4.5	.29	5.1	9.8	--	400	900	2600
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	.12	3.9	12.0	--	2.8	6.7	--	--	--	4500
23...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	.11	5.0	5.8	.43	6.0	11	--	1033	36	5900
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--

394318077020300 - POTOMAC RIVER AT HATTON POINT --Cont.
 APPENDIX A

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LOC- TION, CROSS SECTION (FT F.M. L BANK)	(00009)	TRANS- PAR- ENCY (SECCI DISK)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	(00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTEVS. (U-EINS /50M/S)	(00200)	OXYGEN DEMAND, IMME- DIATE (MG/L)	(00302)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)
AUG 03...	0915	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04...	0717	1.00	300	---	---	20.0	---	---	---	---	---	---	---	---	---	---	---	---
04...	0720	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	0	---	.00
04...	0725	33.0	1000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04...	0727	1.00	1000	---	---	22.0	---	---	---	---	---	---	---	---	---	---	---	---
04...	0735	1.00	2400	---	---	25.0	---	---	---	---	---	---	---	---	---	---	---	---
04...	1710	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	0	---	.00
04...	1713	1.00	300	---	---	30.0	---	7.50	---	---	---	.500	---	---	---	---	---	---
04...	1722	1.00	1000	---	---	24.0	---	7.75	---	---	---	.500	---	---	---	---	---	---
04...	1730	1.00	2400	---	---	24.0	---	5.25	---	---	---	.670	---	---	---	---	---	---
05...	0633	1.00	300	---	---	29.0	---	6.70	---	---	---	.500	---	---	---	---	---	---
05...	0645	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	0	---	.00
05...	0648	1.00	1000	---	---	24.0	---	10.3	---	---	---	1.800	---	---	---	---	---	---
05...	0650	1.00	2400	---	---	25.0	---	---	---	---	---	1.400	---	---	---	---	---	---
05...	0730	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	-.3	---	.32
05...	0740	1.00	300	---	---	30.0	---	---	---	2.900	---	.700	380	---	---	---	---	---
05...	0750	1.00	1000	---	---	36.0	---	---	---	---	---	.150	502	---	---	---	---	---
05...	0805	1.00	2400	---	---	34.0	---	---	---	---	---	---	---	---	---	---	---	---
05...	0919	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	0	---	.00
05...	0920	1.00	300	---	---	29.0	---	---	---	2.800	---	.500	1070	---	---	---	---	---
05...	0930	1.00	1000	---	---	34.0	---	---	---	2.800	---	.500	1070	---	---	---	---	---
05...	0940	1.00	2400	---	---	---	---	---	---	4.000	---	.500	1070	---	---	---	---	---
05...	1105	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	0	---	.00
05...	1110	1.00	300	---	---	35.0	---	---	---	3.100	---	.500	1630	---	---	---	---	---
05...	1120	1.00	1000	---	---	36.0	---	---	---	3.200	---	.400	1670	---	---	---	---	---
05...	1130	1.00	2400	---	---	54.0	---	---	---	4.400	---	.900	1730	---	---	---	---	---
05...	1225	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	0	---	.00
05...	1230	1.00	300	---	---	28.0	---	---	---	2.700	---	.600	1900	---	---	---	---	---
05...	1245	1.00	1000	---	---	37.0	---	---	---	3.800	---	.600	1970	---	---	---	---	---
05...	1255	1.00	2400	---	---	30.0	---	---	---	2.900	---	.600	1970	---	---	---	---	---
05...	1506	41.0	300	---	---	30.0	---	---	---	---	---	---	---	---	---	---	---	---
05...	1533	1.00	1000	---	---	26.0	---	---	---	---	---	---	---	---	---	---	---	---
05...	1545	1.00	2400	---	---	25.0	---	---	---	---	---	---	---	---	---	---	---	---
05...	1638	1.00	300	---	---	30.0	---	---	---	---	---	---	---	---	---	---	---	---
05...	1803	1.00	300	---	---	28.0	---	---	---	---	---	---	---	---	---	---	---	---
05...	1814	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	0	---	.00
05...	1818	1.00	1000	---	---	29.0	---	---	---	---	---	---	---	---	---	---	---	---
05...	1825	1.00	2400	---	---	26.0	---	---	---	1.000	---	---	---	---	---	---	---	---
05...	1843	3.00	300	---	---	20.0	---	---	---	---	---	---	---	---	---	---	---	---

APPENDIX A
 38431R077020300 - POTOMAC RIVER AT HATTON POINT ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DOXYGE NATION CARRON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON ACEOUS (M3/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS, DAYS LASTIME AT 20C (92135)	DOXYGE NATION VITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/LP) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DOXY- SENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31615)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
AUG 03...	..	..	..	..	..	..	..	..	..	..
04...	..	..	..	..	..	..	..	..	..	..
04...	.10	9.1	4.5	.92	3.5	13	..	350	276	2900
04...	..	..	..	..	..	..	..	..	..	..
04...	..	..	..	..	..	..	..	..	..	..
04...	..	..	..	..	..	..	..	..	..	..
04...	.11	6.4	3.4	.30	5.7	12	..	..	..	5500
04...	..	..	..	..	..	..	..	..	..	..
04...	..	..	..	..	..	..	..	..	..	..
04...	..	..	..	..	..	..	..	..	..	..
05...	..	..	..	..	..	..	..	..	..	..
05...	.19	4.0	2.5	.21	7.9	12	..	0	760	3900
05...	..	..	..	..	..	..	..	..	..	..
05...	..	..	..	..	..	..	..	..	..	..
05...	.16	6.3	..	..	..	..	..	..	..	..
05...	..	..	..	..	..	..	..	..	..	..
05...	..	..	..	..	..	..	..	..	..	..
05...	..	..	..	..	..	..	..	..	..	..
05...	.11	9.9	..	..	..	..	..	..	..	..
05...	..	..	..	..	..	..	..	..	..	..
05...	..	..	..	..	..	..	..	..	..	..
05...	..	..	..	..	..	..	..	..	..	..
05...	.21	6.7	..	..	..	..	..	..	..	..
05...	..	..	..	..	..	..	..	..	..	..
05...	..	..	..	..	..	..	..	..	..	..
05...	.16	7.0	..	..	..	..	..	..	..	..
05...	..	..	..	..	..	..	..	..	..	..
05...	..	..	..	..	..	..	..	..	..	..
05...	..	..	..	..	..	..	..	..	..	..
05...	..	..	..	..	..	..	..	..	..	..
05...	..	..	..	..	..	..	..	..	..	..
05...	..	..	..	..	..	..	..	..	..	..
05...	.13	8.5	..	..	..	..	..	..	..	..
05...	..	..	..	..	..	..	..	..	..	..
05...	..	..	..	..	..	..	..	..	..	..
05...	..	..	..	..	..	..	..	..	..	..
05...	..	..	..	..	..	..	..	..	..	..

384318077020300 - POTOMAC RIVER AT HATTON POINT --Cont.
 APPENDIX A

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SECTION (FT FMI L RAVK)	SAMPLE LOC- TION, CROSS	TRANS- PAR- ENCY (SECCI DISK (IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON. LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
05...	1857	3.00	1000		18.0	--	--	--	--	--	--
05...	1900	--	50000		--	--	--	--	--	--	.00
05...	1901	2.00	2400		20.0	--	--	--	--	--	--
05...	1909	1.00	300		26.0	--	--	--	--	--	.00
05...	1914	--	50000		--	--	--	--	--	--	--
05...	1918	1.00	1000		28.0	--	--	--	--	--	--
05...	1925	1.00	2400		20.0	--	--	--	--	--	--
06...	0627	1.00	300		24.0	7.90	1.000	21.0	--	--	--
06...	0637	1.00	1000		24.0	9.40	1.300	360	--	--	.26
06...	0645	--	50000		--	--	--	--	--	--	.44
06...	0646	1.00	2400		24.0	7.00	1.700	750	--	--	--
06...	0759	--	50000		--	--	--	--	--	--	--
06...	0800	1.00	300		30.0	6.10	.900	655	--	--	--
06...	0810	1.00	1000		30.0	6.80	.800	390	--	--	--
06...	0815	1.00	2400		30.0	5.00	.900	409	--	--	--
06...	0915	1.00	300		34.0	6.50	1.300	1030	--	--	--
06...	0920	--	50000		--	--	--	--	--	--	.36
06...	0930	1.00	1000		31.0	6.50	.900	1170	--	--	--
06...	0935	1.00	2400		25.0	--	.800	1300	--	--	--
06...	1059	--	50000		--	--	--	--	--	--	.00
06...	1100	1.00	300		34.0	7.00	.800	1670	--	--	--
06...	1110	1.00	1000		32.0	6.80	.800	1830	--	--	--
06...	1115	1.00	2400		37.0	--	.900	1830	--	--	--
06...	1215	1.00	300		36.0	6.90	.900	1300	--	--	--
06...	1220	--	50000		--	--	--	--	--	-1.1	.92
06...	1230	1.00	1000		42.0	7.20	.900	1300	--	--	--
06...	1235	1.00	2400		48.0	--	.900	2200	--	--	--
06...	1402	1.00	300		35.0	8.00	--	--	--	--	--
06...	1412	1.00	1000		36.0	6.00	--	--	--	--	--
06...	1415	--	50000		--	--	--	--	--	--	.00
06...	1420	1.00	2400		30.0	4.00	--	--	--	--	--
06...	1517	1.00	300		35.0	7.00	--	--	--	--	--
06...	1524	--	50000		--	--	--	--	--	--	.57
06...	1527	1.00	1000		36.0	7.00	--	--	--	--	--
06...	1530	1.00	2400		38.0	5.00	--	--	--	--	--
06...	1632	1.00	300		35.0	6.00	--	--	--	--	--
06...	1635	--	50000		--	--	--	--	--	--	.32
06...	1638	1.00	300		23.0	7.00	1.500	700	--	--	--
06...	1641	1.00	1000		32.0	8.00	--	--	--	--	--

APPENDIX A
 38431R077020300 - POTOMAC RIVER AT HATTON POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION CROSS SECTION (FIT FM L BANK)	TRANS- PAR- ENCY (SECCHI DISK 1IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM. CARBON DAYS LAGTIME AT 20C (82135)
AUG	1644	1.00	2400	41.0	5.50	---	---	---	---	---
06...	1647	1.00	1000	32.0	9.00	1.500	400	---	---	---
06...	1650	---	50000	---	---	---	---	---	0	---
06...	1655	3.00	2400	26.0	---	1.000	700	---	---	---
06...	1742	1.00	300	34.0	6.80	---	---	---	---	---
06...	1744	---	50000	---	---	---	---	---	1.7	-1.3
06...	1747	1.00	1000	34.0	7.00	---	---	---	---	---
06...	1755	1.00	2400	26.0	5.00	---	---	---	---	---
06...	1903	1.00	300	24.0	7.00	---	---	---	---	---
06...	1912	1.00	1000	31.0	7.30	---	---	---	---	---
06...	1915	1.00	2400	25.0	4.50	---	---	---	---	---
06...	1945	---	50000	---	---	---	---	---	---	---
07...	0647	1.00	300	23.0	8.00	.800	37.0	---	-.4	.34
07...	0652	1.00	1000	22.0	7.70	.600	550	---	---	---
07...	0655	1.00	2400	19.0	5.50	1.200	73.0	---	---	---
07...	0700	---	50000	---	---	---	---	---	0	.00
07...	1727	3.00	300	26.0	8.00	1.200	800	---	---	---
07...	1730	---	50000	---	---	---	---	---	0	.00
07...	1733	3.00	1000	24.0	7.50	---	---	---	---	---
07...	1740	3.00	2400	42.0	---	1.900	750	---	---	---
08...	0607	1.00	300	24.0	---	1.300	---	---	---	---
08...	0612	1.00	1000	17.0	---	1.400	2.70	---	---	---
08...	0615	3.00	2400	24.0	---	2.200	4.30	---	---	---
08...	0620	---	50000	---	---	---	---	---	0	.00
08...	1647	3.00	300	24.0	8.00	1.000	1000	---	---	---
08...	1657	3.00	1000	28.0	8.00	1.000	1000	---	---	---
08...	1705	3.00	2400	16.0	10.0	1.000	1000	---	---	---
08...	1715	---	50000	---	---	---	---	---	0	.00
11...	1712	3.00	300	25.0	8.00	1.500	750	---	---	---
11...	1722	3.00	1000	22.0	7.50	1.000	700	---	---	---
11...	1731	1.00	2400	14.0	---	1.000	450	---	---	---
13...	0628	1.00	300	25.0	9.50	2.100	12.5	---	---	---
13...	0643	1.00	1000	24.0	---	1.300	31.0	---	---	---
13...	0645	---	50000	---	---	---	---	---	0	.00
13...	0650	3.00	2400	18.0	5.00	1.000	64.0	---	---	---
13...	1615	1.00	2400	23.0	---	---	180	---	---	---
13...	1645	---	50000	---	---	---	---	---	0	.00
13...	1652	1.00	300	22.0	6.00	.500	500	---	---	---
13...	1703	1.00	1000	22.0	7.50	.750	200	---	---	---

APPENDIX A
 384318077020300 - POTOMAC RIVER AT HATTON POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (42133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS, LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY (82132)	OXYGEN DEMAND, BIOCHEM NITROS, ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DECKY- SEVA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
AUG 06...	..	..	..	..	..	..	..	..	..	..
06...	..	..	..	..	..	..	..	..	..	..
06...	.18	4.9	10.0	.17	6.9	12	..	..	..	3900
06...	..	..	..	..	..	..	..	..	..	..
06...	.20	5.9	..	..	..	..	..	..	..	..
06...	..	..	..	..	..	..	..	..	..	..
06...	..	..	..	..	..	..	..	..	..	..
06...	..	..	..	..	..	..	..	..	..	..
06...	..	..	..	..	..	..	..	..	..	..
06...	..	..	..	..	..	..	..	..	..	..
06...	.22	4.9	..	..	..	..	..	..	..	..
07...	..	..	..	..	..	..	..	..	..	..
07...	..	..	..	..	..	..	..	..	..	..
07...	..	..	..	..	..	..	..	..	..	..
07...	.16	3.5	1.3	.14	8.2	12	..	4050	1580	<13000
07...	..	..	..	..	..	..	..	..	..	..
07...	.15	6.2	2.4	.66	4.8	11	..	..	..	<15000
07...	..	..	..	..	..	..	..	..	..	..
07...	..	..	..	..	..	..	..	..	..	..
08...	..	..	..	..	..	..	..	..	..	..
08...	..	..	..	..	..	..	..	..	..	..
08...	..	..	..	..	..	..	..	..	..	..
08...	.20	4.0	1.5	.26	5.8	9.8	..	..	..	..
08...	..	..	..	..	..	..	..	..	..	..
08...	..	..	..	..	..	..	..	..	..	..
08...	..	..	..	..	..	..	..	..	..	..
08...	.19	5.5	1.5	.13	6.4	12	..	2360	850	<6100
11...	..	..	..	..	..	..	..	..	..	..
11...	..	..	..	..	..	..	..	..	..	..
11...	..	..	..	..	..	..	..	..	..	..
13...	..	..	..	..	..	..	..	..	..	..
13...	..	..	..	..	..	..	..	..	..	..
13...	.11	5.7	3.8	.27	5.0	11	..	604	0	1600
13...	..	..	..	..	..	..	..	..	..	..
13...	..	..	..	..	..	..	..	..	..	..
13...	.16	6.1	1.9	.27	9.5	16	..	..	..	7300
13...	..	..	..	..	..	..	..	..	..	..
13...	..	..	..	..	..	..	..	..	..	..
13...	..	..	..	..	..	..	..	..	..	..

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SAMPLE LOCATION CROSS SECTION (FIT FWH) L BANK (00009)	TRANS- PAR- ENCY (SECCI DISK) (IN) (00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET) (00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET) (00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET) (00199)	LIGHT INCID. 400-700NM INTENS. (U-EINS) /SQM/S (00200)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME! AT 20C (82135)
AUG 20....	0612	1.00	300	30.0	--	3.000	1.000	--	--	--
20....	0622	1.00	1000	29.0	--	--	1.000	--	--	--
20....	0630	--	50000	--	--	--	--	--	0	0.00
20....	0635	1.00	2400	--	2.30	--	5.000	--	--	--
20....	1605	1.00	300	28.0	8.50	--	1.500	70.0	--	--
20....	1614	1.00	1000	26.0	9.50	--	1.300	79.0	--	--
20....	1620	--	50000	--	--	--	--	--	0	0.00
20....	1625	3.00	2400	23.0	--	--	1.700	53.0	--	--
25....	1758	1.00	300	33.0	9.75	--	1.000	500	--	--
25....	1810	2.00	2400	18.0	5.00	--	.900	400	--	--
25....	1915	--	50000	--	--	--	--	--	0	0.00
25....	1918	1.00	1000	26.0	8.20	--	1.000	400	--	--
SEP 03....	1617	1.00	300	32.0	9.90	--	1.500	800	--	--
03....	1637	1.00	1000	30.0	8.00	--	.900	800	--	--
03....	1640	--	50000	--	--	--	--	--	0	0.00
03....	1650	2.00	2400	25.0	--	3.300	.900	800	--	--
15....	1642	1.00	300	23.0	7.50	--	1.000	800	--	--
15....	1650	--	50000	--	--	--	--	--	0	0.00
15....	1654	1.00	1000	24.0	7.00	--	.330	750	--	--
15....	1700	1.00	2400	17.0	--	--	.420	700	--	--

APPENDIX A
 384318077020300 - POTOMAC RIVER AT HATTON POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS. DAYS LASTIME AT 20C (92135)	DEOXYGE NATION VITROS. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM VITROS. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT KI TO BASE'E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOC FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
AUG 20...	--	--	--	--	--	--	--	--	--	--
20...	--	5.1	3.7	.21	7.1	12	--	0	990	4300
20...	.11	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	3.9	2.5	.32	7.5	11	--	--	--	3100
20...	.14	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	.15	4.1	5.5	.34	5.4	9.5	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
SEP 03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
03...	.16	2.9	2.5	.56	4.5	7.5	--	--	--	3500
03...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	.07	4.2	3.8	.44	7.1	11	--	--	--	<12000
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT FM, L BANK)	TRANS- PAR- ENCY (SECCHI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)
		(00003)	(00009)	(00077)	(00034)	(00198)	(00199)	(00200)	(00302)
OCT									
02...	1514	1.00	300	35.0	10.0	--	1.500	1400	--
02...	1520	---	50000	---	--	--	--	--	.00
02...	1531	1.00	1000	24.0	9.00	--	1.200	1100	--
02...	1542	1.00	2400	30.0	--	--	1.800	1100	--
03...	1025	1.00	2400	28.0	--	--	--	--	--
03...	1036	1.00	1000	28.0	--	--	--	--	--
03...	1047	1.00	300	25.0	--	--	--	--	--
21...	1004	1.00	300	22.0	4.50	--	1.500	740	--
21...	1010	---	50000	---	--	--	--	--	.00
21...	1021	1.00	1000	30.0	4.50	--	1.000	420	--
NOV									
1R...	1339	2.00	1000	28.0	10.5	--	--	262	--
1R...	1345	---	50000	---	--	--	--	--	.00
1R...	1354	2.00	300	35.0	11.5	--	--	170	--
DEC									
16...	1334	1.00	300	24.0	7.00	--	--	225	--
16...	1345	---	50000	---	--	--	--	--	.00
16...	1348	1.00	1000	23.0	6.25	--	--	150	--
16...	1352	1.00	2400	24.0	--	4.750	--	135	--
FEB									
04...	1043	2.00	1000	38.0	--	--	--	100	--
04...	1045	---	1000	---	--	--	--	--	.00
MAR									
04...	0905	---	1000	---	--	--	--	--	.00
04...	0913	2.00	1000	23.0	--	--	--	--	--
APR									
15...	0850	---	1000	---	--	--	--	1500	--
15...	0858	2.00	1000	16.0	5.00	--	--	--	--
MAY									
19...	0910	---	1000	---	--	--	--	--	.00
19...	0920	2.00	1000	24.0	6.10	--	--	240	--
JUN									
30...	1115	--	1000	---	--	--	--	--	.00
JUL									
06...	1802	2.00	1000	32.0	--	--	--	--	--
08...	1911	2.00	300	24.0	8.00	--	.500	160	--
08...	1919	2.00	1000	30.0	9.00	--	.800	170	--
08...	1920	---	50000	---	--	--	--	--	.00
08...	1930	2.00	2400	24.0	--	--	.600	130	--
10...	1800	2.00	1000	39.0	9.67	--	--	1050	--
13...	1905	2.00	1000	34.0	10.0	--	--	110	--
15...	1645	---	1000	---	--	--	--	--	.00
15...	1657	2.00	1000	42.0	8.00	--	--	2000	--
17...	1657	2.00	1000	35.0	10.0	--	--	650	--

APPENDIX A
 384319077020300 - POTOMAC RIVER AT HATTON POINT ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON-- ACEOUS (MS/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS. DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION NITROS. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROS. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45' UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
OCT 02...	--	--	--	--	--	--	--	--	--	--
02...	.12	4.0	1.8	.38	3.4	7.4	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	.08	3.0	3.9	.32	6.7	9.7	--	--	--	2200
21...	--	--	--	--	--	--	--	--	--	--
NOV 18...	--	--	--	--	--	--	--	--	--	--
18...	.06	3.4	3.4	.18	5.6	9.1	--	105	55	790
18...	--	--	--	--	--	--	--	--	--	--
DEC 16...	--	--	--	--	--	--	--	--	--	--
16...	.20	1.5	3.0	.17	4.0	5.5	--	240	0	160
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
FER 04...	--	--	--	--	--	--	--	--	--	--
04...	.10	4.2	5.2	.41	7.4	12	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
MAR 04...	.17	2.5	5.0	.13	2.8	5.4	--	215	175	<5300
04...	--	--	--	--	--	--	--	--	--	--
APR 15...	--	--	--	--	--	--	--	900	1500	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
MAY 19...	.12	2.5	3.2	.22	3.6	6.1	--	--	--	1400
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
JUN 30...	.10	3.5	7.3	.46	2.2	5.7	--	--	--	13000
JUL 06...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	.12	3.4	5.9	.45	1.9	5.3	--	--	--	>4300
08...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	.13	3.9	6.7	.29	2.8	6.7	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--

APPENDIX A
 384318077020300 - POTOMAC RIVER AT HATTON POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT F.W. L BANK)	(00009)	TRANS- PAR- ENCY (SECCHI DISK)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	(00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400NM 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, BIOCHEM CARBON, LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L)	(00302)	
JUL	20...	---	50000			---													
	0625	1.00	300			34.0						1.000		14.5		.00			
	0631	1.00	1000			30.0		8.50				1.000		25.0		---			
	0649	2.00	2400			23.0						1.100		30.0		---			
	0650	1.00	300			34.0		6.00				8.000		700		---			
	1629	---	50000			---										.00			
	1635	1.00	1000			32.0		9.50				1.000		750		---			
	1655	2.00	2400			---				.700				700		---			
	1700	1.00	300			30.0										---			
	1004	1.00	1000			30.0										---			
	21...	---	50000			---										.00			
	1019	1.00	300			22.0		5.10				.900		520		---			
	1020	1.00	1000			31.0		6.70				.500		480		---			
	1624	---	50000			---										.00			
	1644	1.00	1000			---										---			
	1650	---	50000			---										.00			
	1655	3.00	2400			---								520		---			
	1659	1.00	300			28.0										---			
	0609	1.00	1000			28.0										---			
	22...	---	50000			---										.00			
	0625	---	1000			---										.00			
	1915	---	1000			---										.00			
	1130	---	1000			---										.00			
	1755	2.00	1000			22.0		3.90						750		---			
	1800	---	1000			---										.00			
	1805	3.00	2400			---		3.10						650		---			
	1927	2.00	1000			20.0		4.50						210		---			
	31...	---	50000			---										.00			
	1930	---	2400			16.0										.00			
	1931	3.00	2400			---										---			
AUG	03...	---	50000			---										.00			
	1930	2.00	2400			15.0										.00			
	04...	---	50000			---										.00			
	1520	2.00	2400			18.0										.00			
	04...	---	50000			---										.00			
	1540	2.00	1000			---										.00			
	04...	---	50000			---										.00			
	1715	1.00	300			---		3.50				.500		110		---			
	06...	---	50000			---										.00			
	1424	1.00	1000			19.0		2.50				.750		95.0		---			
	06...	---	50000			---						1.250		75.0		---			
	1430	1.00	2400			22.0		5.30				.250		650		---			
	06...	---	50000			---						.170		300		---			
	1444	2.00	1000			18.0		3.75				.500		155		---			
	06...	---	50000			---						.500		75.0		---			
	1738	3.00	2400			19.0		4.70								---			
	07...	---	50000			---										.00			
	1745	2.00	1000			---										.00			
	10...	---	50000			---										.00			
	1940	3.00	2400			---				1.800						---			
	10...	---	50000			---										.00			

APPENDIX A
 384319077020300 - POTOMAC RIVER AT HATTON POINT ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACIDUS (M3/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS, DAYS LAGTIME AT 20C (82136)	DEOXYGE NATION NITROS, KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROS, ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0-45 UM-VF (COLS./ 100 ML) (31616)	STREP- TOCOCCEI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUL 20...	.18	3.9	9.1	.43	3.2	7.1	--	1900	6100	>3800
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	.23	4.8	5.8	.17	5.1	9.9	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	.17	3.3	7.8	.32	3.0	6.2	--	335	705	>5200
21...	--	--	--	--	--	--	--	--	--	--
21...	.17	7.3	5.5	.24	4.7	12	--	--	--	>7000
21...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	.13	6.5	9.6	.20	5.4	12	--	--	688	>7300
27...	.17	6.2	7.3	.15	5.4	12	--	0	--	--
28...	.12	7.8	5.5	.41	3.8	12	--	--	--	>10000
29...	--	--	--	--	--	--	--	--	--	--
29...	.15	8.0	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
31...	.21	6.2	--	--	--	--	--	--	--	32000
31...	--	--	--	--	--	--	--	--	--	--
AUG 03...	.13	8.7	3.2	.18	5.3	14	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	.21	9.2	1.0	.13	3.8	13	--	--	--	39000
04...	--	--	--	--	--	--	--	--	--	--
05...	.15	6.4	3.4	.15	3.1	9.5	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	.21	6.3	.00	.15	4.4	11	--	--	--	34000
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--

APPENDIX A
 384318077020300 - POTOMAC RIVER AT HATTON POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON-- ACEOUS (M3/L) (00320)	OXYGEN DEMAND, RIOCHEM NITROG, DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION VITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, RIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GEVA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31616)	STREPTO- COCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
AUG 18...	--	--	--	--	--	--	--	--	--	--
18...	.18	6.5	3.2	.18	2.7	9.2	--	--	--	>7500
18...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	.17	5.4	2.2	.17	3.3	8.7	--	--	--	>12000
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	.18	5.2	2.9	.18	2.9	8.1	--	--	2300	>14000
25...	.18	7.2	3.1	.22	4.1	11	--	60	1610	>13000
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
26...	.10	4.5	1.0	.32	2.1	6.7	--	--	--	>12000
26...	--	--	--	--	--	--	--	--	1853	--
26...	.14	6.2	2.4	.11	2.4	8.6	--	0	--	>15000
SEP 10...	--	--	--	--	--	--	--	--	--	--
16...	.09	4.9	1.2	.30	1.0	5.8	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	.15	3.1	.44	.06	5.1	8.2	--	--	--	>5500

384136077054500 - POTOMAC RIVER AT MARSHALL HALL
 APPENDIX A

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	TRANSPAR- ENCY (SECCHI DISK) (IN) (00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET) (00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET) (00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET) (00199)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	OXYGEN DEMAND, (MG/L) (00302)	OXYGEN DEMAND, BIOCHEM. CARBON. DAYS LAGTIME! AT 20C (R2135)
JUL 17...	0615	1500							0	0.00
JUL 17...	0623	2250							0	0.00
JUL 17...	0635	3000							0	0.00
JUL 17...	0640	3900							0	0.00
JUL 17...	0717	2250							0	0.00
JUL 17...	0730	3000							0	0.00
JUL 17...	0745	3900							0	0.00
JUL 17...	0835	1500							0	0.00
JUL 17...	0900	2250							0	0.00
JUL 17...	0905	2250							0	0.00
JUL 17...	0910	3000							0	0.00
JUL 17...	0920	3900							0	0.00
JUL 17...	1020	1500							0	0.00
JUL 17...	1035	2250							0	0.00
JUL 17...	1050	3000							0	0.00
JUL 17...	1105	3900							0	0.00
JUL 17...	1200	1500							0	0.00
JUL 17...	1215	1500							0	0.00
JUL 17...	1220	1500							0	0.00
JUL 17...	1225	2250							0	0.00
JUL 17...	1230	2250							0	0.00
JUL 17...	1235	2250							0	0.00
JUL 17...	1240	3000							0	0.00
JUL 17...	1245	3900							0	0.00
JUL 17...	1330	1500							0	0.00
JUL 17...	1350	3000							0	0.00
JUL 17...	1400	3900							0	0.00
JUL 17...	1452	2250							0	0.00
JUL 17...	1645	1500							0	0.00
JUL 17...	1655	2250							0	0.00
JUL 17...	1715	3000							0	0.00
JUL 17...	1725	3900							0	0.00
JUL 17...	1815	1500							0	0.00
JUL 17...	1825	2250							0	0.00
JUL 17...	1835	3000							0	0.00
JUL 17...	1845	3900							0	0.00
JUL 17...	1935	1500							0	0.00
JUL 17...	1945	2250							0	0.00
JUL 17...	1955	3000							0	0.00

APPENDIX A
384136077054500 - POTOMAC RIVER AT MARSHALL HALL --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULIT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS. DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROS. ULIT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GEVA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUL										
17...	.14	7.3	2.5	.43	3.2	10	---	---	---	---
17...	.16	8.1	2.3	.32	3.4	12	---	---	---	---
17...	.19	5.1	3.5	.35	6.1	11	---	---	---	---
17...	.18	7.9	3.9	.27	4.1	12	---	---	---	---
17...	.17	6.1	2.5	.45	4.1	10	---	---	---	---
17...	.11	8.5	3.8	.49	3.0	12	---	---	---	---
17...	.16	8.5	4.0	.14	4.3	13	---	---	---	---
17...	.15	5.5	3.5	.48	4.5	10	---	---	---	---
17...	.16	4.9	3.5	.26	5.4	10	---	---	---	---
17...	.17	5.9	2.5	.32	4.4	10	---	---	---	---
17...	.14	7.2	3.9	.19	3.8	11	---	---	---	---
17...	.17	10	3.3	.15	4.4	14	---	---	---	---
17...	.15	6.7	3.8	.25	4.7	11	---	---	---	---
17...	.18	4.0	2.5	.18	6.4	10	---	---	---	---
17...	.15	7.5	3.5	.21	4.5	12	---	---	---	---
17...	.19	11	8.3	.26	4.5	15	---	---	---	---
17...	.15	8.2	2.3	.68	2.6	11	---	---	---	---
17...	.15	5.3	3.1	.32	3.2	10	---	---	---	---
17...	.16	7.1	2.0	.24	4.6	9.9	---	---	---	---
17...	.17	5.5	3.2	.46	3.2	10	---	---	---	---
17...	.18	7.5	3.0	.35	4.5	10	---	---	---	---
17...	.16	7.3	2.9	.18	4.1	12	---	---	---	---
17...	.18	8.2	3.9	.21	4.0	12	---	---	---	---
17...	.15	7.5	2.2	.16	4.0	12	---	---	---	---
17...	.16	8.5	3.2	.50	2.3	9.9	---	---	---	---
17...	.17	9.5	5.2	.49	1.9	10	---	---	---	---
17...	.16	5.5	2.8	.42	2.7	12	---	---	---	---
17...	.15	10	2.1	.18	5.3	11	---	---	---	---
17...	.17	5.3	2.7	.19	3.2	13	---	---	---	---
17...	.11	9.9	2.7	.17	5.7	11	---	---	---	---
17...	.14	12	2.2	.17	4.6	14	---	---	---	---
17...	.19	6.2	2.1	.08	6.8	19	---	---	---	---
17...	.19	7.3	1.9	.20	3.4	9.6	---	---	---	---
17...	.10	11	3.3	.18	4.5	12	---	---	---	---
17...	.18	13	7.7	.44	3.8	15	---	---	---	---
17...	.13	5.4	2.3	.19	4.5	18	---	---	---	---
17...	.14	5.4	2.6	.36	4.9	10	---	---	---	---
17...	.14	7.2	2.6	.39	5.2	11	---	---	---	---
17...	.14	7.2	2.5	.30	5.2	12	---	---	---	---

APPENDIX A
 384136077054500 - POTOMAC RIVER AT MARSHALL HALL --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAMPLE LOCATION CROSS SECTION (FT FM L BANK)	TRANS-PAR-ENCY (SECCHI DISK IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON DAYS LAGTIME AT 20C (82135)
JUL 17...	2005	3900		--	--	--	--	.00
AUG 02...	1449	1000	25.0	--	--	--	--	--
02...	1513	2700	22.0	--	--	--	--	--

DATE	TIME	OXYGEN DEMAND, BIOCHEM ULT. CARBON DAYS LAGTIME AT 20C (82133)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. PER DAY AT 20C (82135)	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY-GEVA-TION CONV STANT K1 TO BASE E (00325)	COLI-FORM, FECAL, 0.45 UM-WF (COLS./100 ML) (31616)	STREP-TOCOC CI, FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML) (60050)
JUL 17...	0.17	7.3	2.5	0.0R	9.4	17	--	--	--	--
AUG 02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--

APPENDIX A
384136077054500 - POTOMAC RIVER AT MARSHALL HALL ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (SECCHI DISK (IN))	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM CARBON, LAGTIME AT 20C (82135)
OCT	0930	1.00	2100	8.0	---	---	---	---	0.0	---
OCT	0934	1.00	2100	8.0	---	---	---	---	0.0	---
DEC	1012	3.00	2400	18.0	---	---	---	---	0.0	---
DEC	1030	---	50000	---	---	---	---	---	0.0	---
JAN	0955	---	50000	---	---	---	---	---	0.0	---
JAN	1013	1.00	900	20.0	---	---	---	---	0.0	---
FEB	1124	3.00	900	24.0	---	---	---	---	0.0	---
FEB	1125	---	50000	---	---	---	---	---	0.0	---
FEB	1134	3.00	2400	24.0	---	---	---	---	0.0	---
MAR	0935	---	50000	---	---	---	---	---	0.0	---
APR	1212	3.00	900	16.0	---	---	---	---	0.0	---
APR	1220	---	50000	---	---	---	---	---	0.0	---
MAY	1112	3.00	900	18.0	---	---	---	---	0.0	---
MAY	1115	---	50000	---	---	---	---	---	0.0	---
MAY	1121	3.00	3500	18.0	---	---	---	---	0.0	---
JUN	1515	3.00	690	24.0	---	---	---	---	0.0	---
JUN	1525	2.00	2490	26.0	---	---	---	---	0.0	---
JUN	1535	3.00	3500	22.0	---	---	---	---	0.0	---
JUN	1540	---	50000	---	---	---	---	---	0.0	---
JUN	1051	3.00	690	24.0	---	---	---	---	0.0	---
JUN	1112	3.00	2490	24.0	---	---	---	---	0.0	---
JUN	1115	---	50000	---	---	---	---	---	0.0	---
JUN	1121	3.00	3500	18.0	---	---	---	---	0.0	---
JUL	1136	3.00	690	18.0	---	---	---	---	0.0	---
JUL	1157	3.00	2490	18.0	---	---	---	---	0.0	---
JUL	1201	3.00	3500	22.0	---	---	---	---	0.0	---
JUL	1205	---	50000	---	---	---	---	---	0.0	---
JUL	1121	3.00	690	26.0	---	---	---	---	0.0	---
JUL	1130	---	50000	---	---	---	---	---	0.0	---
JUL	1137	4.00	2490	29.0	---	---	---	---	0.0	---
JUL	1141	3.00	3500	24.0	---	---	---	---	0.0	---
JUL	1121	1.00	690	24.0	---	---	---	---	0.0	---
JUL	1134	1.00	2490	21.0	---	---	---	---	0.0	---
JUL	1140	---	50000	---	---	---	---	---	0.0	---
JUL	1142	1.00	3500	30.0	---	---	---	---	0.0	---
JUL	0921	1.00	690	22.0	---	---	---	---	0.0	---

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARRON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON-- ACEDOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM RIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
OCT 06...	.12	1.6	5.7	.14	4.0	5.6	--	--	--	--
OCT 06...	--	--	--	--	--	--	--	--	--	--
DEC 20...	--	--	--	--	--	--	--	--	--	--
DEC 20...	.09	6.3	7.2	.43	4.9	12	--	--	--	4500
JAN 16...	.14	5.0	5.9	.21	6.7	12	--	--	--	3600
JAN 16...	--	--	--	--	--	--	--	--	--	--
FEB 19...	--	--	--	--	--	--	--	--	--	--
FEB 19...	.20	4.1	9.0	.12	1.2	5.3	--	--	--	4400
FEB 19...	--	--	--	--	--	--	--	--	--	--
MAR 18...	.20	3.5	9.3	.51	4.3	7.8	--	--	--	416000
MAR 18...	--	--	--	--	--	--	--	--	--	--
APR 22...	--	--	--	--	--	--	--	--	--	--
APR 22...	.14	2.3	9.1	.18	2.5	4.8	--	--	--	5800
MAY 19...	--	--	--	--	--	--	--	--	--	--
MAY 19...	.10	1.9	--	--	--	--	--	--	--	21000
MAY 19...	--	--	--	--	--	--	--	--	--	--
JUN 17...	--	--	--	--	--	--	--	--	--	--
JUN 17...	--	--	--	--	--	--	--	--	--	--
JUN 17...	--	--	--	--	--	--	--	--	--	--
JUN 17...	.12	5.0	9.4	.30	8.1	13	--	--	--	--
JUN 27...	--	--	--	--	--	--	--	--	--	--
JUN 27...	--	--	--	--	--	--	--	--	--	--
JUN 27...	.11	6.5	3.2	.75	7.5	14	--	--	--	--
JUN 27...	--	--	--	--	--	--	--	--	--	--
JUL 04...	--	--	--	--	--	--	--	--	--	--
JUL 04...	--	--	--	--	--	--	--	--	--	--
JUL 04...	--	--	--	--	--	--	--	--	--	--
JUL 04...	.16	3.5	3.1	.16	11	14	--	--	--	--
JUL 09...	--	--	--	--	--	--	--	--	--	--
JUL 09...	.14	9.1	5.5	.22	5.5	15	--	--	--	--
JUL 09...	--	--	--	--	--	--	--	--	--	--
JUL 09...	--	--	--	--	--	--	--	--	--	--
JUL 16...	--	--	--	--	--	--	--	--	--	--
JUL 16...	--	--	--	--	--	--	--	--	--	--
JUL 16...	.10	7.5	1.7	.21	5.1	18	--	--	--	--
JUL 16...	--	--	--	--	--	--	--	--	--	--
JUL 23...	--	--	--	--	--	--	--	--	--	--

APPENDIX A
384136077054600 - POTOMAC RIVER AT MARSHALL HALL --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	(00009)	(00077)	(00034)	(00198)	(00199)	(00200)	(00302)	(82135)
		SAM- PLING DEPTH (FEET)	LOC- ATION, CROSS SECTION (FIT FM; L BANK)	TRANS- PAR- ENCY (SECCI DISK IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM CARBON. LAGTIME AT 20C (82135)	
JUL											
23...	0927	1.00	2490	22.0	--	--	--	--	--	--	--
23...	0930	---	50000	---	--	--	--	--	--	0.00	--
23...	0936	1.00	3500	20.0	--	--	--	--	--	--	--
23...	1901	1.00	690	22.0	--	--	--	--	--	--	--
23...	1912	1.00	2490	24.0	--	--	--	--	--	--	--
23...	1915	---	50000	---	--	--	--	--	--	0.00	--
23...	1921	1.00	3500	24.0	--	--	--	--	--	--	--
30...	0731	1.00	690	16.0	--	--	--	--	--	--	--
30...	0747	1.00	2490	17.0	--	--	--	--	--	--	--
30...	0750	---	50000	---	--	--	--	--	--	0.00	--
30...	0756	1.00	3500	18.0	--	--	--	--	--	--	--
30...	1756	3.00	690	14.0	--	--	--	--	--	--	--
30...	1807	4.00	2490	22.0	--	--	--	--	--	--	--
30...	1816	3.00	3500	13.0	--	--	--	--	--	--	--
30...	1840	---	50000	---	--	--	--	--	--	0.00	--
AUG											
04...	0756	1.00	690	17.0	--	--	--	--	--	--	--
04...	0812	1.00	2490	19.0	--	--	--	--	--	--	--
04...	0815	---	50000	---	--	--	--	--	--	0.00	--
04...	0821	1.00	3500	10.0	--	--	--	--	--	--	--
04...	1801	1.00	690	18.0	5.00	--	0.340	--	--	--	--
04...	1807	1.00	2490	23.0	7.00	--	0.330	--	--	--	--
04...	1810	---	50000	---	--	--	--	--	--	0.00	--
04...	1816	1.00	3500	24.0	5.50	--	0.670	--	--	--	--
05...	0642	2.00	3500	28.0	--	--	--	--	--	--	--
05...	0652	1.00	2490	28.0	--	--	--	--	--	--	--
05...	0655	---	50000	---	--	--	--	--	--	0.00	--
05...	0701	1.00	690	26.0	--	--	--	--	--	--	--
05...	0707	1.00	2490	20.0	7.70	--	1.000	--	--	--	--
05...	0711	1.00	690	23.0	5.60	--	1.000	--	--	--	--
05...	0731	1.00	3500	24.0	8.90	--	1.500	150	--	--	--
05...	0740	---	50000	---	--	--	--	--	--	0.00	--
05...	0841	1.00	690	34.0	--	--	--	--	--	--	--
05...	0845	---	50000	---	--	--	--	--	--	0.00	--
05...	0852	1.00	2490	34.0	--	--	--	--	--	--	--
05...	0902	1.00	3500	34.0	--	--	--	--	--	--	--
05...	1032	1.00	690	28.0	--	--	--	--	--	--	--
05...	1035	---	50000	---	--	--	--	--	--	0.00	--
05...	1044	1.00	2490	28.0	--	--	--	--	--	--	--
05...	1053	1.00	3500	28.0	--	--	--	--	--	--	--

APPENDIX A
 394136077054500 - POTOMAC RIVER AT MARSHALL HALL --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. DAYS LASTIME AT 20C (82135)	DEOXYGE NATION K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SENA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUL										
23...										
23...	.12	5.0	1.7	.23	4.5	9.5		970	235	10000
23...										
23...										
23...	.16	4.1	3.2	.20	4.9	9.0				6300
23...										
30...										
30...	.10	8.0	4.9	.28	3.8	12		40	360	9800
30...										
30...										
30...										
30...	.13	6.4	8.5	.37	5.1	12				8800
AUG										
04...										
04...	.20	6.0	3.1	.26	5.2	11		100	3840	8200
04...										
04...										
04...	.16	7.9	1.9	.37	4.6	12				9000
04...										
05...										
05...	.16	7.3								
05...										
05...										
05...										
05...	.19	6.0	1.9	.28	5.4	11			2460	6600
05...								0		
05...	.15	5.2								
05...										
05...										
05...	.07	7.5								
05...										
05...										
05...										

APPENDIX A
384136077054500 - POTOMAC RIVER AT MARSHALL HALL ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION: CRSS SECTION (FT FM L RANK)	TRANS- PAR- ENCY (SECCHI DISK IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, CARBON. DAYS LAGTIME AT 20C (82135)
(00003)	(00009)	(00077)	(00034)	(00198)	(00199)	(00200)	(00302)			
AUG										
05...	1213	1.00	690	22.0	--	--	--	--	--	--
05...	1231	1.00	3500	34.0	--	--	--	--	--	--
05...	1235	--	50000	--	--	--	--	--	.00	--
05...	1611	1.00	690	22.0	--	--	--	--	--	--
05...	1620	--	50000	--	--	--	--	--	.00	--
05...	1631	1.00	2490	22.0	--	--	--	--	--	--
05...	1636	1.00	3500	19.0	--	--	--	--	--	--
05...	1821	1.00	690	22.0	--	--	--	--	--	--
05...	1925	--	50000	--	--	--	--	--	.00	--
05...	1932	1.00	2490	22.0	--	--	--	--	--	--
05...	1936	1.00	3500	22.0	--	--	--	--	--	--
05...	1922	3.00	2490	13.0	--	--	--	--	--	--
05...	1930	--	50000	--	--	--	--	--	.00	--
05...	1933	3.00	3500	12.0	--	--	--	--	--	--
06...	0641	1.00	690	28.0	--	--	--	--	--	--
06...	0652	1.00	2490	28.0	--	--	--	--	--	--
06...	0655	--	50000	--	--	--	--	--	.00	--
06...	0701	1.00	3500	24.0	--	--	--	--	--	--
06...	0706	1.00	690	18.0	5.00	--	1.500	125	--	--
06...	0715	--	50000	--	--	--	--	--	.00	--
06...	0718	1.00	2490	19.0	6.90	--	1.800	130	--	--
06...	0726	1.00	3500	19.0	7.40	--	1.400	205	--	--
06...	0821	1.00	690	28.0	--	--	--	--	--	--
06...	0827	1.00	2490	29.0	--	--	--	--	--	--
06...	0831	1.00	3500	29.0	--	--	--	--	--	--
06...	0835	--	50000	--	--	--	--	--	.00	--
06...	0951	1.00	690	34.0	--	--	--	--	.00	--
06...	0955	--	50000	--	--	--	--	--	.00	--
06...	1002	1.00	2490	34.0	--	--	--	--	--	--
06...	1011	1.00	3500	31.0	--	--	--	--	--	--
06...	1121	1.00	690	34.0	--	--	--	--	--	--
06...	1125	--	50000	--	--	--	--	--	.00	--
06...	1132	1.00	2490	34.0	--	--	--	--	--	--
06...	1141	1.00	3500	30.0	--	--	--	--	--	--
06...	1441	1.00	690	19.0	--	--	--	--	--	--
06...	1445	--	50000	--	--	--	--	--	.00	--
06...	1452	1.00	2490	25.0	--	--	--	--	--	--
06...	1501	1.00	3500	28.0	--	--	--	--	--	--
06...	1631	1.00	690	20.0	--	--	--	--	--	--

APPENDIX A
 384136077054600 - POTOMAC RIVER AT MARSHALL HALL --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON-- ACEDUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. DAYS LAGTIME AT 20C (82136)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	OXYGEN DEMAND, BIOCHEM ULT. (MG/L) (00325)	DEOXY- SEVA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
AUG 05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
05...	.11	9.2	--	--	--	--	--	--	--	--	--
05...	.12	11	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
05...	.11	10	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
05...	.16	7.5	2.3	.14	5.4	13	--	--	--	--	9400
06...	--	--	--	--	--	--	--	--	--	--	--
06...	.12	6.0	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	.12	7.9	1.7	.71	2.6	11	--	480	250	12000	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	.13	8.5	--	--	--	--	--	--	--	--	--
06...	.09	6.3	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	.07	6.5	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	.11	5.7	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--

APPENDIX A
 384136077054500 - POTOMAC RIVER AT MARSHALL HALL --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SAMPLE LOCATION CROSS SECTION (FIT F4) L BANK (00009)	TRANS- PAR- ENCY (SECHI DISK) (IN) (00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET) (00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET) (00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET) (00199)	LIGHT INCID. 400NM 700NM INTENS. (U-EINS) /SQM/S (00200)	OXYGEN DEMAND, IMMEDIATE (MG/L) (00302)	OXYGEN DEMAND, BIOCHEMICAL CARBON. DAYS LAGTIME AT 20C (82135)
AUG 06...	1640	---	50000	---	---	---	---	---	0.0	0.00
06...	1647	1.00	2490	22.0	---	---	---	---	---	---
06...	1701	1.00	3500	24.0	---	---	---	---	---	---
06...	1713	1.00	690	14.0	4.50	---	1.000	575	---	---
06...	1719	1.00	2490	16.0	4.50	---	1.000	550	---	---
06...	1725	---	50000	---	---	---	---	---	0.0	0.00
06...	1742	1.00	3500	16.0	5.50	---	1.000	500	---	---
06...	1841	1.00	690	22.0	---	---	---	---	---	---
06...	1845	---	50000	---	---	---	---	---	0.0	0.00
06...	1852	1.00	2490	24.0	---	---	---	---	---	---
06...	1856	1.00	3500	23.0	---	---	---	---	---	---
07...	0711	1.00	690	19.0	5.10	---	1.500	130	---	---
07...	0717	1.00	2490	18.0	7.00	---	.400	100	---	---
07...	0720	---	50000	---	---	---	---	---	0.0	0.00
07...	0726	1.00	3500	23.0	7.60	---	1.200	170	---	---
07...	0757	3.00	690	12.0	5.50	---	.250	1500	---	---
07...	1812	3.00	2490	13.0	4.50	---	.340	1300	---	---
07...	1815	---	50000	---	---	---	---	---	0.0	0.00
07...	1918	3.00	3500	17.0	6.00	---	.170	1400	---	---
08...	0626	1.00	690	25.0	6.00	---	1.000	10.0	---	---
08...	0632	1.00	2490	19.0	5.10	---	1.300	15.0	---	---
08...	0641	1.00	3500	23.0	6.50	---	.900	22.0	---	---
08...	0645	---	50000	---	---	---	---	---	0.0	0.00
08...	0745	---	---	---	---	---	---	---	---	---
08...	1717	3.00	690	12.0	3.90	---	1.000	1000	---	---
08...	1727	3.00	2490	14.0	4.50	---	.340	1000	---	---
08...	1732	3.00	3500	16.0	5.00	---	1.000	1000	---	---
08...	1745	---	50000	---	---	---	---	---	0.0	0.00
11...	1757	3.00	690	13.0	---	2.000	.250	490	---	---
11...	1802	3.00	2490	24.0	7.00	---	.670	750	---	---
11...	1812	3.00	3500	22.0	6.00	---	.250	500	---	---
11...	1915	---	50000	---	---	---	---	---	0.0	0.00
13...	0708	1.00	690	16.0	4.50	---	.800	145	---	---
13...	0719	1.00	2490	23.0	5.40	---	.800	190	---	---
13...	0733	1.00	3500	23.0	4.50	---	.500	270	---	---
13...	1730	---	50000	---	---	---	---	---	0.0	0.00
13...	1734	1.00	690	20.0	9.00	---	1.000	130	---	---
13...	1749	1.00	2490	24.0	8.50	---	1.500	450	---	---
13...	1803	1.00	3500	23.0	7.00	---	1.000	300	---	---

APPENDIX A
 384136077054600 - POTOMAC RIVER AT MARSHALL HALL --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE- NATION CARRON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARRON-- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. KI TO BASE E PER DAY AT 20C (82135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	OXYGEN DEMAND, RIOCHEM UNINHIB ULT. (MG/L) (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
AUG 06...	.15	9.0								
06...										
06...										
06...										
06...	.14	9.2	.00	.04	2.4	12				27000
06...										
06...	.16	7.0								
06...										
06...										
06...										
07...										
07...	.20	5.9	1.3	.21	4.7	11				<28000
07...										
07...										
07...										
07...	.17	10	1.4	.32	4.5	15		1680		41000
07...										
08...										
08...										
08...										
08...	.17	8.1	2.1	.20	4.2	12				
08...										
08...										
08...										
08...	.19	10	.00	.08	5.7	16				<41000
11...										
11...										
11...	.16	6.5	1.1	.25	5.3	12				
13...										
13...										
13...	.16	6.2	2.3	.22	7.5	14				6500
13...										
13...										
13...										

384136077054600 - POTOMAC RIVER AT MARSHALL HALL --Cont.

APPENDIX A

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FIT FMI L BANK)	TRANS- PAR- ENCY (SECHI DISK) (1%)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
		(00003)	(00009)	(00077)	(00034)	(00198)	(00199)	(00200)		
AUG										
19...	1152	3.00	900	23.0	6.00	--	--	140	--	--
19...	1155	--	50000	--	--	--	--	--	--	.00
19...	1212	3.00	2400	30.0	5.70	--	--	170	--	--
20...	0652	1.00	690	--	4.80	--	1.000	120	--	--
20...	0700	--	50000	--	--	--	--	--	--	.00
20...	0703	1.00	2490	--	6.25	--	.820	--	--	--
20...	0706	1.00	3500	23.0	7.25	--	.820	--	--	--
20...	1155	--	--	--	--	--	--	--	--	--
20...	1633	1.00	2490	22.0	7.50	--	1.700	115	--	--
20...	1643	1.00	690	18.0	6.00	--	1.000	82.0	--	--
20...	1650	--	50000	--	--	--	--	--	--	.00
20...	1703	1.00	3500	24.0	7.70	--	1.000	220	--	--
25...	1842	1.00	690	18.0	5.00	--	.600	250	--	--
25...	1852	1.00	2490	21.0	6.00	--	.500	200	--	--
25...	1901	1.00	3500	24.0	6.25	--	.600	140	--	--
25...	1905	--	50000	--	--	--	--	--	--	.00
SEP										
03...	1743	1.00	690	21.0	6.00	--	.500	550	--	--
03...	1800	--	50000	--	--	--	--	--	--	.00
03...	1803	1.00	2490	30.0	8.50	--	.800	300	--	--
03...	1811	1.00	3500	29.0	7.00	--	.600	250	--	--
15...	1717	1.00	690	23.0	6.50	--	.670	550	--	--
15...	1723	1.00	2490	22.0	7.30	--	.500	380	--	--
15...	1731	1.00	3500	24.0	6.50	--	.420	450	--	--
15...	1735	--	50000	--	--	--	--	--	--	.00
16...	1650	--	2100	--	--	--	--	--	--	.00
16...	1653	3.00	2100	26.0	8.50	--	--	200	--	--

APPENDIX A

36*136077054600 - POTOMAC RIVER AT MARSHALL HALL ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. K1 TO BASE E PER DAY AT 20C (82136)	DEOXYGE NATION NITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
AUG 19...	--	--	--	--	--	--	--	--	--	--
19...	.13	5.5	1.2	.32	4.4	9.9	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
20...	--	7.5	2.9	.79	2.8	10	--	--	--	2400
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	6.1	2.2	.25	4.4	10	--	--	--	12000
20...	.12	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	.16	5.7	2.9	.32	5.4	11	--	--	--	--
SEP 03...	--	--	--	--	--	--	--	--	--	--
03...	.18	4.5	1.8	.31	3.8	8.3	--	30	110	14000
03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	.08	3.9	2.4	.45	5.3	9.2	--	--	--	<8500
16...	.12	4.1	1.2	.51	3.9	8.0	--	--	--	13000
16...	--	--	--	--	--	--	--	--	--	--

APPENDIX A
 3R6136077054500 - POTOMAC RIVER AT MARSHALL HALL --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	CROSS SECTION (FT FM L BANK)	(00009)	TRANS- PAR- ENCY (SECHI DISK) (IN)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	(00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTEVS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, IMME- DIATE (MG/L)	(00302)	OXYGEN DEMAND, BIOCHEM CARBON, LAGTIME AT 20C (H2135)
OCT																		
02...	1609	1.00	690			24.0												
02...	1619	1.00	2490			23.0												
02...	1620	---	50000			---												.00
02...	1632	1.00	3500			26.0												
03...	0942	1.00	3500			25.0												
03...	0951	1.00	2490			28.0												
03...	1012	1.00	690			28.0												
21...	1042	1.00	690			30.0	4.50			1.500	960							
21...	1056	1.00	2490			24.0		3.300		1.000	1200							.00
21...	1100	---	50000			---												
21...	1104	1.00	3500			30.0		3.500		.800	1050							
NOV																		
18...	1217	2.00	3500			28.0	9.00				470							
18...	1224	2.00	2490			28.0	9.00				1200							
18...	1230	---	50000			---												.00
18...	1233	2.00	690			29.0	8.50				300							
DEC																		
16...	1302	1.00	690			23.0	9.25				195							
16...	1318	1.00	2490			18.0	8.20				160							
16...	1320	---	50000			---												.00
16...	1324	1.00	3500			19.0	5.50				175							
FER																		
04...	1111	2.00	2300			36.0	9.00				150							.00
04...	1115	---	2300			---												.00
MAR																		
04...	0840	---	2300			---												.00
04...	0949	2.00	2300			16.0												
APR																		
15...	0914	2.00	2300			11.0	4.80				1800							.00
15...	0915	---	2300			---												.00
MAY																		
19...	0925	---	2300			---												.00
19...	0945	2.00	2300			36.0		4.900			105							.00
JUN																		
30...	1140	---	2300			---												.00
30...	1148	2.00	2300			---	5.50				2000							.00
JUL																		
08...	1829	2.00	3500			24.0	7.40			.400	540							.00
08...	1830	---	50000			---												.00
08...	1838	2.00	2490			26.0	6.80			.500	440							.00
08...	1850	2.00	690			32.0	6.50			.500	420							.00
20...	0725	---	50000			---												.00
20...	0731	1.00	690			20.0		1.300			100							.00
20...	0742	1.00	2490			---					110							.00

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION K1 TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON ACEDUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS, LAGTIME AT 20C (82136)	DEOXYGE NATION K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP-- TOCCOCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
OCT 02...	---	---	---	---	---	---	---	---	---	---
02...	---	---	---	---	---	---	---	---	---	---
02...	.15	6.5	2.4	.53	8.6	15	---	---	---	---
02...	---	---	---	---	---	---	---	---	---	---
03...	---	---	---	---	---	---	---	---	---	---
03...	---	---	---	---	---	---	---	---	---	---
21...	---	---	---	---	---	---	---	---	---	---
21...	.12	3.3	3.7	.56	4.3	8.0	---	---	---	---
21...	---	---	---	---	---	---	---	---	---	---
NOV 18...	---	---	---	---	---	---	---	---	---	---
18...	---	---	---	---	---	---	---	---	---	---
18...	.06	3.5	3.3	.14	5.3	8.9	---	10	55	390
18...	---	---	---	---	---	---	---	---	---	---
DEC 16...	---	---	---	---	---	---	---	---	---	---
16...	---	---	---	---	---	---	---	---	---	---
16...	.18	3.2	3.0	.18	2.6	5.8	---	0	50	3300
16...	---	---	---	---	---	---	---	---	---	---
FER 04...	---	---	---	---	---	---	---	---	---	---
04...	.10	4.7	3.4	.17	9.4	14	---	227	700	---
04...	---	---	---	---	---	---	---	---	---	---
MAR 04...	.11	1.9	2.4	.26	2.3	4.1	---	---	---	<8100
04...	---	---	---	---	---	---	---	---	---	---
APR 15...	---	---	---	---	---	---	---	---	---	---
15...	.14	5.9	1.3	.24	2.0	7.8	---	0	290	20000
19...	.09	2.9	---	.21	3.0	5.9	---	---	---	4700
19...	---	---	---	---	---	---	---	---	---	---
JUN 30...	.11	3.4	2.6	.16	2.7	6.1	---	---	---	<13000
30...	---	---	---	---	---	---	---	---	---	---
JUL 08...	---	---	---	---	---	---	---	---	---	---
08...	.12	3.2	2.5	.17	2.7	5.9	---	---	---	>3000
08...	---	---	---	---	---	---	---	---	---	---
08...	---	---	---	---	---	---	---	---	---	---
20...	.11	4.1	3.4	.21	1.7	5.7	---	325	222	>2700
20...	---	---	---	---	---	---	---	---	---	---
20...	---	---	---	---	---	---	---	---	---	---

384136077054500 - POTOMAC RIVER AT MARSHALL HALL --Cont.

APPENDIX A

WATER QUALITY DATA. WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (SECCHI DISK (TN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTEVS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (00200)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (02135)
JUL											
20...	0754	1.00	3500	---	---	---	2.000	250	---	---	---
20...	1737	1.00	590	32.0	8.00	---	.700	700	---	---	---
20...	1745	---	50000	---	---	---	---	---	---	---	0.00
20...	1755	1.00	2490	---	7.20	---	.700	400	---	---	---
20...	1805	1.00	3500	30.0	2.50	---	.500	60.0	---	---	---
21...	0931	1.00	690	19.0	---	---	---	---	---	---	---
21...	0939	1.00	2490	20.0	---	---	---	---	---	---	---
21...	0940	---	50000	---	---	---	---	---	---	---	0.00
21...	0946	1.00	3500	24.0	---	---	---	---	---	---	---
21...	1732	1.00	690	32.0	7.00	---	.600	1100	---	---	---
21...	1744	1.00	2490	32.0	6.50	---	.500	800	---	---	0.00
21...	1745	---	50000	---	---	---	---	---	---	---	---
21...	1757	1.00	3500	29.0	7.70	---	1.500	430	---	---	---
22...	0702	1.00	690	38.0	---	---	---	---	---	---	---
22...	0713	1.00	2490	25.0	---	---	---	---	---	---	0.00
22...	0715	---	50000	---	---	---	---	---	---	---	---
22...	0722	1.00	3500	30.0	---	---	---	---	---	---	0.00
28...	1100	---	2300	---	---	---	---	---	---	---	0.00
28...	1108	1.60	2300	26.0	4.80	---	---	150	---	---	---
AUG											
06...	1507	1.00	690	24.0	3.00	---	2.500	35.0	---	---	---
06...	1515	---	50000	---	---	---	---	---	---	---	0.00
06...	1523	1.00	2490	24.0	3.25	---	1.500	40.0	---	---	---
06...	1529	1.00	3500	15.0	3.00	---	.750	35.0	---	---	---
18...	1111	1.60	3500	23.0	---	---	---	---	---	---	---
18...	1143	1.60	590	24.0	---	---	---	---	---	---	---
18...	1157	1.60	2490	24.0	---	---	---	---	---	---	---
18...	1200	---	50000	---	---	---	---	---	---	---	0.00
24...	1856	1.00	2490	20.0	---	---	---	---	---	---	0.00
24...	1900	---	50000	---	---	---	---	---	---	---	0.00
24...	1908	1.00	3500	19.0	---	---	---	---	---	---	---
25...	0734	1.00	690	26.0	6.30	---	.800	162	---	---	---
25...	0746	1.00	2490	24.0	6.30	---	.800	210	---	---	---
25...	0750	---	50000	---	---	---	.550	265	---	---	0.00
25...	0754	1.00	3500	18.0	---	---	---	---	---	---	---
25...	1515	---	50000	---	---	---	---	---	---	---	---
25...	2145	---	50000	---	---	---	---	---	---	---	0.00
26...	0732	1.00	690	16.0	5.10	---	.500	180	---	---	---
26...	0750	1.00	2490	17.0	---	---	---	---	---	---	---
26...	0757	1.00	3500	17.0	4.30	---	.400	275	---	---	---

APPENDIX A
384136077054500 - POTOMAC RIVER AT MARSHALL HALL --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARBON KI TO BASE F PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. KI TO BASE E PER DAY AT 20C (92135)	DEOXYGE NATION VITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIR ULT. (MG/L) (00319)	JECKY- SEVA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUL										
20...	..	..	..	..	..	..	..	..	..	..
20...	.18	3.5	5.5	.15	3.7	7.2	..	..	..	>2800
20...	..	..	..	..	..	..	..	..	..	..
20...	..	..	..	..	..	..	..	..	..	..
21...	..	..	..	..	..	..	..	..	..	..
21...	.12	3.9	10.0	.27	1.9	5.8	..	424	56	>3600
21...	..	..	..	..	..	..	..	..	..	..
21...	..	..	..	..	..	..	..	..	..	..
21...	.19	4.3	6.9	.24	4.0	8.3	..	..	..	>3100
21...	..	..	..	..	..	..	..	..	..	..
22...	..	..	..	..	..	..	..	..	..	..
22...	.13	5.5	7.3	.19	2.6	8.1	..	0	392	2600
22...	..	..	..	..	..	..	..	..	..	..
22...	.07	5.1	4.2	.63	3.5	8.6	..	..	..	>3300
28...	..	..	..	..	..	..	..	..	..	..
28...	..	..	..	..	..	..	..	..	..	..
AUG										
06...	..	..	..	..	..	..	..	..	..	..
06...	.16	5.7	.50	.32	3.7	9.4	..	10	0	15000
06...	..	..	..	..	..	..	..	..	..	..
06...	..	..	..	..	..	..	..	..	..	..
18...	..	..	..	..	..	..	..	..	..	..
18...	..	..	..	..	..	..	..	..	..	..
18...	.16	8.0	5.2	.22	1.4	9.5	..	..	..	>27000
24...	.09	6.5	1.4	.37	2.3	8.9	..	..	..	>11000
24...	..	..	..	..	..	..	..	..	..	..
25...	..	..	..	..	..	..	..	..	..	..
25...	.15	4.1	2.4	.19	2.5	6.6	..	5	126	>8100
25...	..	..	..	..	..	..	..	..	..	..
25...	..	..	..	..	..	..	..	..	..	..
25...	.08	5.1	1.5	.32	3.7	8.8	..	10	2000	>7300
26...	..	..	..	..	..	..	..	..	..	..
26...	..	..	..	..	..	..	..	..	..	..
26...	..	..	..	..	..	..	..	..	..	..

APPENDIX A
 394136077054500 - POTOMAC RIVER AT MARSHALL HALL --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLING DEPTH (FEET)	SAMPLING SECTION (FT FM BANK)	SAMPLE LOCATION	TRANS- PAR- ENCY	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400-700NM	OXYGEN DEMAND, BIOCHEM. CARBON. DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMMEDIATE (MG/L) (00302)
AUG											
26...	0815	---	5000	---	---	---	---	---	---	.00	.00
26...	2015	---	5000	---	---	---	---	---	---	.00	.00
SEP											
16...	0945	--	2300	--	--	--	--	--	--	.00	.00
22...	0855	19.0	2300	--	--	--	--	--	--	.00	.00
22...	0900	1.60	2300	22.0	22.0	22.0	22.0	22.0	22.0	--	--

DATE	TIME	OXYGEN DEMAND, BIOCHEM. ULT. (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM. NITROG. DAYS LAGTIME AT 20C (82135)	DEOXYGENATION RATE (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM. UNINHIB. ULT. (MG/L) (00319)	DEOXYGENATION RATE (MG/L) (00325)	COLIFORMS, FECA, 0.45 UM-MF (COLS./100 ML) (31616)	STREPTOCOCCI, FECA, KF AGAR (COLS./100 ML) (31573)	PHYTOPLANKTON, TOTAL (CELLS/ML) (60050)
AUG									
26...	.14	5.5'	--	.00	5.5	--	25	1248	>15000
26...	.13	5.5'	4.4	.45	7.2	--	--	--	>14000
SEP									
16...	.10	3.5'	3.0	.12	7.3	--	--	--	--
22...	.11	3.2'	.90	.26	5.0	--	--	--	>4300
22...	--	--	--	--	--	--	--	--	--

APPENDIX A
 383818077072900 - POTOMAC RIVER AT HALLOWING POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (SECCHI DISK (IN))	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (02135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
MAY	19...	3.00	4020	21.0	--	--	--	--	--	--
JUN	17...	2.00	1710	18.0	--	--	--	--	--	--
	1420	2.00	2940	20.0	--	--	--	--	--	--
	1435	2.00	3490	26.0	--	--	--	--	--	--
	17...	3.00	4140	25.0	--	--	--	--	--	--
	27...	---	50000	---	--	--	--	--	0.00	--
	0957	2.00	1710	21.0	--	--	--	--	--	--
	27...	3.00	2940	24.0	--	--	--	--	--	--
	1033	2.00	3480	23.0	--	--	--	--	--	--
	27...	3.00	4140	24.0	--	--	--	--	--	--
JUL	1016	2.00	1710	20.0	--	--	--	--	--	0.00
	04...	---	50000	---	--	--	--	--	0.00	--
	1025	4.00	2940	20.0	--	--	--	--	--	--
	04...	2.00	3480	19.0	--	--	--	--	--	--
	1048	3.00	4140	19.0	--	--	--	--	--	--
	04...	2.00	1710	18.0	--	--	--	--	--	0.00
	09...	---	50000	---	--	--	--	--	0.00	--
	1030	3.00	2940	18.0	--	--	--	--	--	--
	09...	2.00	3480	18.0	--	--	--	--	--	--
	1047	3.00	4140	25.0	--	--	--	--	--	--
	09...	1.00	1710	24.0	--	--	--	--	--	--
	1016	1.00	2940	21.0	--	--	--	--	--	--
	16...	1.00	3480	21.0	--	--	--	--	--	--
	1027	---	50000	---	--	--	--	--	0.00	--
	16...	1.00	4140	18.0	--	--	--	--	--	--
	1040	1.00	4140	18.0	--	--	--	--	--	--
	1050	1.00	4140	18.0	--	--	--	--	--	--
	23...	---	50000	---	--	--	--	--	0.00	--
	1015	1.00	3480	18.0	--	--	--	--	--	--
	23...	1.00	2940	17.0	--	--	--	--	--	--
	1018	1.00	1710	13.0	--	--	--	--	--	--
	23...	1.00	4140	24.0	--	--	--	--	--	--
	1026	1.00	1710	15.0	--	--	--	--	--	--
	23...	---	50000	---	--	--	--	--	0.00	--
	1031	1.00	2940	12.0	--	--	--	--	--	--
	23...	1.00	1710	14.0	--	--	--	--	0.00	--
	1942	---	50000	---	--	--	--	--	--	--
	23...	1.00	1710	16.0	--	--	--	--	--	0.00
	1946	---	50000	---	--	--	--	--	--	--
	23...	1.00	2940	14.0	--	--	--	--	0.00	--
	1959	---	50000	---	--	--	--	--	--	--
	23...	1.00	1710	16.0	--	--	--	--	--	0.00
	0821	---	50000	---	--	--	--	--	--	--
	30...	1.00	2940	16.0	--	--	--	--	0.00	--
	0830	---	50000	---	--	--	--	--	--	--
	30...	1.00	2940	12.0	--	--	--	--	--	--
	0837	.10	3480	12.0	--	--	--	--	--	--
	30...				--	--	--	--	--	--
	0850				--	--	--	--	--	--

APPENDIX A
 383818077072900 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA - WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (192133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MS/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS. DAYS LAGTIME AT 20C (82136)	DEOXYGE NATION NITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROS. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
MAY 19....	--	--	--	--	--	--	--	--	--	--
JUN 17....	--	--	--	--	--	--	--	--	--	--
17....	--	--	--	--	--	--	--	--	--	--
17....	--	--	--	--	--	--	--	--	--	--
17....	--	--	--	--	--	--	--	--	--	--
27....	.11	7.5	9.6	.33	5.7	13	--	--	--	--
27....	--	--	--	--	--	--	--	--	--	--
27....	--	--	--	--	--	--	--	--	--	--
27....	--	--	--	--	--	--	--	--	--	--
27....	--	--	--	--	--	--	--	--	--	--
JUL 04....	--	3.5	6.3	.08	2.5	6.0	--	--	--	--
04....	.12	--	--	--	--	--	--	--	--	--
04....	--	--	--	--	--	--	--	--	--	--
04....	--	--	--	--	--	--	--	--	--	--
09....	.15	7.5	2.1	.11	4.9	12	--	--	--	--
09....	--	--	--	--	--	--	--	--	--	--
09....	--	--	--	--	--	--	--	--	--	--
09....	--	--	--	--	--	--	--	--	--	--
16....	--	--	--	--	--	--	--	--	--	--
16....	--	--	--	--	--	--	--	--	--	--
16....	.13	8.7	.91	.18	3.7	12	--	--	--	--
16....	--	--	--	--	--	--	--	--	--	--
23....	.14	6.5	1.9	.12	3.6	10	--	1560	3100	25000
23....	--	--	--	--	--	--	--	--	--	--
23....	--	--	--	--	--	--	--	--	--	--
23....	--	--	--	--	--	--	--	--	--	--
23....	--	--	--	--	--	--	--	--	--	--
23....	--	--	--	--	--	--	--	--	--	--
23....	--	--	--	--	--	--	--	--	--	--
23....	.13	6.3	2.1	.12	4.0	11	--	--	--	17000
30....	--	--	--	--	--	--	--	--	--	--
30....	.10	12	2.3	.11	4.4	16	--	266	180	28000
30....	--	--	--	--	--	--	--	--	--	--
30....	--	--	--	--	--	--	--	--	--	--

383818077072900 - POTOMAC RIVER AT HALLOWING POINT --Cont.

APPENDIX A

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LDC- ATION, CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (SECHI DISK) (IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, AT 20C (82135)
JUL 30...	0907	1.00	4140	11.0	--	--	--	--	--	--	--
30...	1836	2.00	1710	13.0	--	--	--	--	--	--	--
30...	1847	4.00	2940	13.0	--	--	--	--	--	--	--
30...	1903	3.00	3480	12.0	--	--	--	--	--	--	--
30...	1910	---	50000	---	--	--	--	--	0.00	0.0	0.00
30...	1913	3.00	4140	12.0	--	--	--	--	--	--	--
AUG 04...	0811	1.00	1710	14.0	--	--	--	--	--	--	--
04...	0850	---	50000	---	--	--	--	--	0.50	0.9	0.50
04...	0858	1.00	2940	16.0	--	--	--	--	--	--	--
04...	0912	1.00	3480	17.0	--	--	--	--	--	--	--
04...	0917	1.00	4140	17.0	--	--	--	--	--	--	--
04...	1846	1.00	1710	16.0	4.50	0.670	0.330	--	--	--	--
04...	1853	1.00	2940	19.0	4.75	--	--	--	--	--	0.00
04...	1900	---	50000	---	--	--	--	--	--	--	--
04...	1903	1.00	3480	18.0	4.50	0.250	--	--	--	--	--
04...	1907	1.00	4140	18.0	4.25	0.250	--	--	--	--	--
05...	0731	3.00	1710	22.0	--	--	--	--	--	--	--
05...	0742	1.00	2940	22.0	--	--	--	--	--	--	--
05...	0749	---	50000	---	--	--	--	--	--	--	0.00
05...	0754	1.00	3480	22.0	--	--	--	--	--	--	--
05...	0756	1.00	1710	19.0	4.80	0.800	32.0	--	--	--	--
05...	0802	1.00	2940	22.0	6.20	0.250	32.0	--	--	--	--
05...	0803	1.00	4140	22.0	--	--	--	--	--	--	--
05...	0812	1.00	3480	19.0	5.00	1.200	36.0	--	--	--	--
05...	0820	---	50000	---	--	--	--	--	0.00	0.0	0.00
05...	0823	1.00	4140	19.0	5.60	1.100	48.0	--	--	--	--
05...	0931	1.00	1710	24.0	--	--	--	--	--	--	--
05...	0942	1.00	2940	24.0	--	--	--	--	--	--	--
05...	0949	---	50000	---	--	--	--	--	--	--	0.00
05...	0953	1.00	3480	24.0	--	--	--	--	--	--	--
05...	1002	1.00	4140	24.0	--	--	--	--	--	--	--
05...	1121	1.00	1710	24.0	--	--	--	--	--	--	0.00
05...	1129	---	50000	---	--	--	--	--	--	--	--
05...	1132	1.00	2940	24.0	--	--	--	--	--	--	0.00
05...	1136	1.00	3480	24.0	--	--	--	--	--	--	--
05...	1142	1.00	4140	24.0	--	--	--	--	--	--	--
05...	1451	1.00	1710	18.0	--	--	--	--	--	--	--
05...	1502	1.00	2940	19.0	--	--	--	--	--	--	--
05...	1512	1.00	3480	18.0	--	--	--	--	--	--	--

383818077072800 - POTOMAC RIVER AT HALLOWING POINT --Cont.
 APPENDIX A

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT. F.M. L BANK)	TRANS- PAR- ENCY (SECCI DISK (IN))	LIGHT DEPT- H TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
AUG 05...	1515	---	50000	---	---	---	---	---	.00	.0
05...	1532	1.00	4140	14.0	---	---	---	---	---	---
05...	1726	1.00	1710	16.0	---	---	---	---	---	---
05...	1737	1.00	2940	18.0	---	---	---	---	---	---
05...	1739	---	50000	---	---	---	---	---	.00	.0
05...	1742	1.00	3480	18.0	---	---	---	---	---	---
05...	1747	1.00	4140	18.0	---	---	---	---	---	---
05...	1950	3.00	1710	14.0	---	---	---	---	---	---
05...	1957	3.00	2940	13.0	---	---	---	---	---	---
05...	2000	---	50000	---	---	---	---	---	.00	.0
05...	2003	3.00	3480	12.0	---	---	---	---	---	---
05...	2007	3.00	4140	12.0	---	---	---	---	---	---
06...	0721	1.00	1710	22.0	---	---	---	---	---	---
06...	0729	---	50000	---	---	---	---	---	.00	.0
06...	0732	1.00	2940	22.0	---	---	---	---	---	---
06...	0741	1.00	1710	17.0	5.00	.330	350	---	---	---
06...	0742	1.00	3480	20.0	---	---	---	---	---	---
06...	0752	1.00	2940	---	5.80	.900	205	---	---	---
06...	0755	1.00	4140	22.0	---	---	---	---	---	---
06...	0802	1.00	3480	16.0	4.90	.900	360	---	---	.00
06...	0810	---	50000	---	---	---	---	---	---	---
06...	0812	1.00	4140	17.0	5.50	.700	310	---	---	---
06...	0901	1.00	1710	24.0	---	---	---	---	---	---
06...	0912	1.00	2940	24.0	---	---	---	---	---	---
06...	0919	---	50000	---	---	---	---	---	.00	.0
06...	0922	1.00	3480	24.0	---	---	---	---	---	---
06...	0932	1.00	4140	24.0	---	---	---	---	---	---
06...	1031	1.00	1710	24.0	---	---	---	---	---	---
06...	1042	1.00	2940	24.0	---	---	---	---	---	---
06...	1049	---	50000	---	---	---	---	---	.00	.0
06...	1052	1.00	3480	24.0	---	---	---	---	---	---
06...	1102	1.00	4140	24.0	---	---	---	---	---	---
06...	1335	1.00	1710	18.0	---	---	---	---	---	---
06...	1347	1.00	2940	18.0	---	---	---	---	---	---
06...	1350	---	50000	---	---	---	---	---	.00	.0
06...	1357	1.00	3480	18.0	---	---	---	---	---	---
06...	1412	1.00	4140	18.0	---	---	---	---	---	---
06...	1536	1.00	1710	18.0	---	---	---	---	---	---
06...	1542	1.00	2940	18.0	---	---	---	---	---	---

APPENDIX A
 383818077072900 - POTOMAC RIVER AT HALLOWING POINT ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULIF. CARBON ACEDUS (M3/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS, DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/LP) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
AUG 05...	.11	12								51000
05...	--	--								--
05...	--	--								--
05...	--	--								--
05...	.12	10								--
05...	--	--								--
05...	--	--								--
05...	--	--								--
05...	.14	11	1.7	.19	3.1	14				--
05...	--	--								--
06...	--	--								--
06...	.13	8.4								--
06...	--	--								--
06...	--	--								--
06...	--	--								--
06...	--	--								--
06...	.19	10	2.2	.50	2.0	12		560	870	35000
06...	--	--								--
06...	--	--								--
06...	.10	9.0								--
06...	--	--								--
06...	--	--								--
06...	--	--								--
06...	.18	7.7								--
06...	--	--								--
06...	--	--								--
06...	--	--								--
06...	.17	8.9								--
06...	--	--								--
06...	--	--								--
06...	--	--								--

383818077072800 - POTOMAC RIVER AT HALLOWING POINT --Cont.
 APPENDIX A

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (SECCI DISK) (IV)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM CARBON DAYS LAGTIME AT 20C (82135)
AUG 06...	1549	---	50000	---	---	---	---	---	---	.0	.00
06...	1552	1.00	3480	19.0	---	---	---	---	---	---	---
06...	1602	1.00	4140	16.0	---	---	---	---	---	---	---
06...	1736	1.00	1710	18.0	---	---	---	---	---	---	---
06...	1744	---	50000	---	---	---	---	---	---	.0	.00
06...	1747	1.00	2940	19.0	---	---	---	---	---	---	---
06...	1752	1.00	3480	18.0	---	---	---	---	---	---	---
06...	1806	1.00	1710	17.0	6.50	---	1.000	400	---	---	---
06...	1807	1.00	4140	18.0	---	---	---	---	---	---	---
06...	1812	1.00	2940	16.0	---	---	1.000	300	---	---	---
06...	1820	---	50000	---	---	---	---	---	---	.0	.00
06...	1828	1.00	3480	16.0	5.50	---	.500	250	---	---	---
06...	1839	1.00	4140	17.0	4.00	---	.500	200	---	---	---
07...	0741	1.00	1710	14.0	4.90	---	.400	240	---	---	---
07...	0747	1.00	2940	18.0	5.00	---	.500	300	---	---	---
07...	0757	1.00	3480	17.0	4.90	---	.080	330	---	---	---
07...	0800	---	50000	---	---	---	---	---	---	.0	.00
07...	0803	1.00	4140	17.0	5.00	---	.500	380	---	.0	.00
07...	0850	---	50000	---	---	---	---	---	---	.0	.00
07...	1852	3.00	1710	14.0	5.00	---	.340	150	---	---	---
07...	1857	3.00	2940	14.0	5.00	---	.250	250	---	---	---
07...	1902	3.00	3480	14.0	5.00	---	.340	200	---	---	---
07...	1907	3.00	4140	14.0	5.00	---	.250	100	---	---	---
08...	0651	1.00	1710	17.0	5.30	---	.800	55.0	---	---	---
08...	0657	1.00	2940	18.0	4.50	---	1.000	120	---	---	---
08...	0702	3.00	3480	18.0	5.40	---	1.000	55.0	---	---	---
08...	0705	---	50000	---	---	---	---	---	---	.0	.00
08...	0710	1.00	4140	17.0	5.30	---	.800	92.0	---	---	---
08...	0905	---	---	---	---	---	---	---	---	---	---
08...	1806	3.00	1710	---	5.00	---	1.200	550	---	---	---
08...	1815	---	50000	---	---	---	---	---	---	.0	.00
08...	1818	3.00	2940	13.0	5.00	---	1.000	500	---	---	---
08...	1822	3.00	3480	13.0	4.50	---	1.000	400	---	---	---
08...	1827	3.00	4140	13.0	4.00	---	.670	400	---	---	---
08...	1835	4.00	1710	13.0	---	---	1.000	15.0	---	---	---
11...	1942	3.00	2940	18.0	---	2.500	.500	600	---	---	---
11...	1847	3.00	3480	16.0	1.70	---	.170	110	---	---	---
11...	1852	3.00	4140	19.0	---	1.900	---	110	---	---	---
11...	1900	---	50000	---	---	---	---	---	---	.0	.00

APPENDIX A
 3R3818077072900 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (DISK 1/4)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
AUG										
13...	0757	1.00	1710	25.0	3.50	--	.400	145	--	--
13...	0819	1.00	2940	17.0	4.90	--	1.800	160	--	--
13...	0820	--	50000	--	--	--	--	550	.00	.00
13...	0829	1.00	3480	16.0	4.00	--	.900	150	--	--
13...	0840	1.00	4140	12.0	3.20	--	.800	--	--	--
13...	2012	1.00	1710	13.0	--	--	--	--	--	--
13...	2020	--	50000	--	--	--	--	--	.00	.00
20...	0724	1.00	4140	19.0	4.25	--	.340	--	--	--
20...	0734	1.00	3480	14.0	4.25	--	.420	--	--	--
20...	0740	--	50000	--	--	--	--	--	.00	.00
20...	0746	1.00	1710	16.0	3.90	--	.250	--	--	--
20...	0804	1.00	2940	18.0	4.50	--	.670	--	--	--
20...	1722	1.00	1710	14.0	4.80	--	.900	90.0	--	--
20...	1738	1.00	2940	19.0	5.00	--	.700	90.0	--	--
20...	1740	--	50000	--	--	--	--	--	.00	.00
20...	1750	1.00	3480	17.0	5.20	--	1.000	95.0	--	--
20...	1756	1.00	4140	16.0	5.20	--	1.000	72.0	--	--
25...	1924	1.00	4140	18.0	4.25	--	.400	60.0	--	--
25...	1938	1.00	3480	19.0	5.00	--	.300	25.0	--	--
25...	1940	--	50000	--	--	--	--	--	.00	.00
25...	1947	1.00	2940	20.0	--	--	.500	--	--	--
25...	1951	1.00	1710	19.0	--	--	--	--	--	--
SEP										
03...	1839	1.00	4140	15.0	5.00	--	.600	150	--	--
03...	1903	1.00	3480	--	5.00	--	.400	40.0	--	--
03...	1910	--	50000	--	--	--	--	--	.00	.00
03...	1932	1.00	2940	20.0	--	--	.300	11.0	--	--
03...	1941	1.00	1710	17.0	--	--	--	--	--	--
15...	1752	1.00	4140	18.0	--	--	.250	310	--	--
15...	1803	1.00	3480	14.0	3.50	--	.080	250	--	--
15...	1810	--	50000	--	--	--	--	--	.00	.00
15...	1817	1.00	2940	19.0	4.50	--	.250	200	--	--
15...	1821	1.00	1710	16.0	3.50	--	.170	140	--	--

APPENDIX A
 363818077072800 - POTOMAC RIVER AT HALLOWING POINT ---Cont.

WATER QUALITY DATA- WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (43/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION VITROG. KI TO BASE E PER DAY (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
AUG 13...	---	---	---	---	---	---	---	---	---	---
13...	---	---	---	---	---	---	---	---	---	---
13...	.14	9.9	.55	.07	9.9	20	---	---	---	---
13...	---	---	---	---	---	---	---	---	---	---
13...	---	---	---	---	---	---	---	---	---	---
13...	---	---	---	---	---	---	---	---	---	---
13...	.14	12	.97	.17	8.2	20	---	---	---	48000
20...	---	---	---	---	---	---	---	---	---	---
20...	---	---	---	---	---	---	---	---	---	---
20...	.15	8.5	2.7	.42	2.0	11	---	5	200	42000
20...	---	---	---	---	---	---	---	---	---	---
20...	---	---	---	---	---	---	---	---	---	---
20...	---	---	---	---	---	---	---	---	---	---
20...	.13	9.1	2.3	.21	4.4	14	---	---	---	55000
20...	---	---	---	---	---	---	---	---	---	---
25...	---	---	---	---	---	---	---	---	---	---
25...	---	---	---	---	---	---	---	---	---	---
25...	.16	8.1	.00	.07	3.9	12	---	---	---	---
25...	---	---	---	---	---	---	---	---	---	---
25...	---	---	---	---	---	---	---	---	---	---
SEP 03...	---	---	---	---	---	---	---	---	---	---
03...	---	---	---	---	---	---	---	---	---	---
03...	.15	7.7	2.1	.22	2.7	10	---	75	21	35000
03...	---	---	---	---	---	---	---	---	---	---
03...	---	---	---	---	---	---	---	---	---	---
15...	---	---	---	---	---	---	---	---	---	---
15...	---	---	---	---	---	---	---	---	---	---
15...	.14	6.0	1.5	.18	4.5	11	---	---	---	<90000
15...	---	---	---	---	---	---	---	---	---	---
15...	---	---	---	---	---	---	---	---	---	---

383818077072900 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FK L BANK)	(00009)	TRANS- PAR- ENCY (SECCI DISK) (IN)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	(00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, IMME- DIATE (MG/L)	(00302)	OXYGEN DEMAND, BIOCHEM CARBON, LAGTIME AY 20C (82135)
OCT																		
	02....	1.00	4140			23.0												
	07....	1.00	3480			19.0												
	02....	---	50000			---												
	07....	1.00	2940			22.0												
	02....	1.00	1710			19.0												
	03....	1.00	4140			25.0												
	03....	1.00	3480			19.0												
	03....	1.00	2940			19.0												
	03....	1.00	1710			19.0												
	21....	1.00	1710			18.0		2.500				.800		1350				
	21....	1.00	2940			24.0		4.000				.800		1000				
	21....	1.00	3480			18.0		3.000				1.000		980				
	21....	---	50000			---		---				---		---				
	21....	1.00	4140			22.0		3.400				.800		1200				
NOV																		
	18....	2.00	4140			28.0		8.50						430				
	18....	2.00	3480			29.0		8.30						370				
	18....	---	50000			---		---						---				
	18....	2.00	2940			28.0		8.30						360				
	18....	2.00	1710			28.0		6.00						360				
DEC																		
	16....	1.00	4140			20.0		6.50						170				
	16....	1.00	3480			18.0		5.00						14.0				
	16....	1.00	2940			19.0		5.25						240				
	16....	1.00	1710			17.0		5.25						220				
FER																		
	04....	2.00	4020			26.0		7.00						150				
	04....	---	50000			---		---						---				
MAR																		
	04....	---	4020			---		---						---				
	04....	2.00	4020			11.0		---						---				
APR																		
	15....	2.00	4020			10.0		4.40						1800				
	15....	---	4020			---		---						---				
MAY																		
	19....	2.00	4020			18.0		4.20						125				
	19....	---	4020			---		---						---				
JUN																		
	30....	2.00	4020			17.0		4.70						2010				
JUL																		
	06....	2.00	4020			15.0		---						---				
	06....	1.00	4450			19.0		---						---				
	08....	2.00	4140			19.0		4.60				.400		920				
	08....	2.00	3480			23.0		5.50				.500		900				

APPENDIX A
 383818077072800 - POTOMAC RIVER AT HALLOWING POINT ---Cont.

WATER QUALITY DATA - WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	TRANS- PAR- ENCY (SECCHI DISK) (IV)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	(00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
JUL 08...	1730	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08...	1754	2.00	2940	18.0	18.0	5.60	---	---	---	---	---	3.000	620	---	---	---	---
08...	1802	2.00	1710	24.0	24.0	6.20	---	---	---	---	---	.600	720	---	---	---	---
10...	1830	2.00	4020	24.0	24.0	5.17	---	---	---	---	---	---	735	---	---	---	---
10...	1845	---	4450	24.0	24.0	5.42	---	---	---	---	---	---	460	---	---	---	---
13...	1730	2.00	4020	24.0	24.0	4.08	---	---	---	---	---	---	740	---	---	---	---
13...	1745	9.00	4450	22.0	22.0	---	---	---	---	---	---	---	---	---	---	---	---
15...	1540	---	4020	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15...	1552	2.00	4020	20.0	20.0	5.00	---	---	---	---	---	---	2000	---	---	---	---
15...	1600	3.00	1710	12.0	12.0	---	---	---	---	---	---	---	---	---	---	---	---
15...	1605	3.00	4140	17.0	17.0	3.50	---	---	---	---	---	---	1500	---	---	---	---
17...	1510	2.00	3480	25.0	25.0	5.50	---	---	---	---	---	---	1700	---	---	---	---
17...	1527	2.00	4140	24.0	24.0	7.00	---	---	---	---	---	---	1400	---	---	---	---
17...	1530	3.00	1710	28.0	28.0	---	---	4.000	---	---	---	---	550	---	---	---	---
20...	0819	1.00	4140	18.0	18.0	---	---	---	---	---	---	---	---	---	---	---	---
20...	0825	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20...	0841	1.00	3480	20.0	20.0	---	---	---	---	---	---	---	---	---	---	---	---
20...	0854	1.00	2940	20.0	20.0	---	---	---	---	---	---	---	---	---	---	---	---
20...	0902	1.00	1710	20.0	20.0	---	---	---	---	---	---	---	---	---	---	---	---
20...	1836	1.00	4140	15.0	15.0	2.00	---	---	---	---	---	.300	80.0	---	---	---	---
20...	1845	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20...	1857	1.00	3480	17.0	17.0	1.90	---	---	---	---	---	.300	75.0	---	---	---	---
20...	1908	1.00	2940	24.0	24.0	---	---	---	---	---	---	---	---	---	---	---	---
21...	0837	1.00	4140	16.0	16.0	---	---	---	---	---	---	---	---	---	---	---	---
21...	0850	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---
21...	0852	1.00	3480	18.0	18.0	---	---	---	---	---	---	---	---	---	---	---	---
21...	0904	1.00	2940	23.0	23.0	---	---	---	---	---	---	---	---	---	---	---	---
21...	0908	1.00	1710	19.0	19.0	---	---	---	---	---	---	---	---	---	---	---	---
21...	1819	1.00	4140	26.0	26.0	5.10	---	---	---	---	---	.800	490	---	---	---	---
21...	1837	1.00	3480	26.0	26.0	5.60	---	---	---	---	---	.400	650	---	---	---	---
21...	1840	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---
21...	1854	1.00	2940	26.0	26.0	5.50	---	---	---	---	---	.400	550	---	---	---	---
21...	1902	1.00	1710	26.0	26.0	5.40	---	---	---	---	---	.500	500	---	---	---	---
22...	0754	1.00	4140	23.0	23.0	---	---	---	---	---	---	---	---	---	---	---	---
22...	0800	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---
22...	0810	1.00	3480	23.0	23.0	---	---	---	---	---	---	---	---	---	---	---	---
22...	0819	1.00	2940	24.0	24.0	---	---	---	---	---	---	---	---	---	---	---	---
22...	0822	1.00	1710	24.0	24.0	---	---	---	---	---	---	---	---	---	---	---	---
22...	1025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

APPENDIX A
 383818077072900 - POTOMAC RIVER AT HALLOWING POINT ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM. ULT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM. NITROG. LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUL 08...	.13	4.5	3.9	.42	1.5	6.1	--	--	--	>8500
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
15...	.15	4.9	3.4	.16	2.3	7.1	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	.13	5.8	3.0	.12	1.6	7.4	--	510	163	>14000
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	.17	6.5	4.2	.07	5.4	1?	--	--	--	>13000
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	.13	6.1	8.7	.13	3.2	9.3	--	260	229	>11000
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	.15	4.5	5.4	.17	2.5	7.1	--	--	--	>4200
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	.13	5.5	11.0	.29	1.9	7.4	--	--	--	>9600
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--

APPENDIX A
 383818077072900 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (SECCI DISK) (IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARRON. DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
JUL										
27...	1700	1.50	50000	--	--	--	--	--	.00	.0
28...	1020	--	4020	--	--	--	--	--	.00	.0
28...	1030	1.60	4020	22.0	4.80	--	--	275	--	--
29...	1650	2.00	4020	18.0	3.67	--	--	1180	--	--
29...	1700	--	50000	--	--	--	--	--	.00	.0
29...	1705	5.00	1710	14.0	3.00	--	--	1100	--	--
31...	1800	--	50000	--	--	--	--	--	.00	.0
31...	1814	1.50	4020	17.0	4.10	--	--	740	--	--
31...	1830	6.00	1710	13.0	3.00	--	--	450	--	--
AUG										
03...	1830	--	50000	--	--	--	--	--	.00	.0
04...	1440	1.50	4020	19.0	--	--	--	--	--	--
04...	1445	--	50000	--	--	--	--	--	.00	.0
04...	1448	5.00	1710	18.0	--	--	--	--	--	--
05...	1810	2.00	4020	20.0	--	--	--	--	--	--
05...	1900	--	4020	--	--	--	--	--	.00	.0
06...	1553	1.00	4140	18.0	3.25	--	1.250	65.0	--	--
06...	1607	1.00	3490	15.0	4.50	--	1.000	20.0	--	--
06...	1610	--	50000	--	--	--	--	--	.00	.0
06...	1619	1.00	2940	24.0	2.00	--	.500	25.0	--	--
06...	1625	5.00	1710	21.0	2.25	--	.500	55.0	--	--
07...	1055	1.50	4020	23.0	5.40	--	.750	1500	--	--
07...	1130	6.00	1710	20.0	4.20	--	.700	1800	--	--
07...	1530	--	50000	--	--	--	--	--	.00	.0
07...	1542	1.00	4020	23.0	5.10	--	.800	1800	--	--
07...	1545	6.00	1710	23.0	5.50	--	.600	1400	--	--
10...	1844	1.50	4020	20.0	5.00	--	.500	400	--	--
10...	1850	5.00	1710	16.0	4.70	--	.400	300	--	--
18...	1049	1.60	4140	18.0	--	--	--	--	--	--
18...	1105	1.60	3490	24.0	--	--	--	--	--	--
18...	1114	1.60	2940	24.0	--	--	--	--	--	--
18...	1115	5.00	1710	24.0	--	--	--	--	--	--
18...	1130	--	50000	--	--	--	--	--	.00	.0
24...	1945	--	50000	--	--	--	--	--	.00	.0
25...	0812	1.00	1710	16.0	--	--	--	--	--	--
25...	0824	1.00	2940	18.0	4.50	--	.500	500	--	--
25...	0834	1.00	3490	18.0	4.50	--	.550	620	--	--
25...	0845	--	50000	--	--	--	--	--	.00	.0
25...	0854	1.00	4140	19.0	4.30	--	.700	730	--	--
25...	2015	--	50000	--	--	--	--	--	.00	.0

APPENDIX A
 383818077072500 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARRON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. LAGTIME AT 20C (82135)	DEOXYGE NATION VITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCJCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUL 27....	.15	5.9	5.5	.10	4.2	10	--	--	--	>25000
28....	.08	4.0	3.5	.10	3.0	7.0	--	--	--	>8100
29....	--	--	--	--	--	--	--	--	--	--
29....	.13	9.1	15.0	--	2.2	11	--	--	--	60000
29....	--	--	--	--	--	--	--	--	--	--
31....	.21	6.8	--	--	--	--	--	--	--	35000
31....	--	--	--	--	--	--	--	--	--	--
31....	--	--	--	--	--	--	--	--	--	--
AUG 03....	.12	5.7	3.4	.16	4.7	10	--	--	--	25000
04....	--	--	--	--	--	--	--	--	--	--
04....	.18	7.3	1.5	.17	2.5	9.8	--	--	--	38000
04....	--	--	--	--	--	--	--	--	--	--
05....	.16	6.8	6.7	.18	2.7	9.5	--	--	--	--
06....	--	--	--	--	--	--	--	--	--	--
06....	.15	6.5	1.6	.24	2.7	9.2	--	2600	--	33000
06....	--	--	--	--	--	--	--	--	--	--
06....	--	--	--	--	--	--	--	--	--	--
07....	--	--	--	--	--	--	--	--	--	--
07....	.12	4.9	5.3	.44	2.0	7.0	--	--	--	--
07....	--	--	--	--	--	--	--	--	--	--
07....	--	--	--	--	--	--	--	--	--	--
10....	--	--	--	--	--	--	--	--	--	--
10....	--	--	--	--	--	--	--	--	--	--
18....	--	--	--	--	--	--	--	--	--	--
18....	--	--	--	--	--	--	--	--	--	--
18....	--	--	--	--	--	--	--	--	--	--
18....	.16	6.7	2.8	.16	3.2	9.9	--	--	--	>16000
24....	.14	6.5	4.9	.16	2.7	9.2	--	--	--	>25000
25....	--	--	--	--	--	--	--	--	--	--
25....	--	--	--	--	--	--	--	--	--	--
25....	.12	6.0	3.3	.08	4.4	10	--	2950	--	>20000
25....	--	--	--	--	--	--	--	--	--	--
25....	.08	5.2	.82	.10	2.6	7.8	--	496	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- DEPTH (FEET)	PLING DEPTH (FEET)	SECTION L RANK)	CROSS (FT FM L RANK)	TRANS- PAR- ENCY	(SECCI DISK)	SURFACE LIGHT (FEET)	(00034)	SURFACE LIGHT (FEET)	(00198)	DEPTH TO 10%	OF	SURFACE LIGHT (FEET)	(00199)	DEPTH TO 50%	OF	700NM INTEVS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)	
AUG	0822	1.00	1710	---	---	13.0	3.70	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
26...	0829	1.00	2940	---	---	18.0	4.90	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
26...	0844	1.00	3480	---	---	19.0	4.90	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
26...	0900	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
26...	0906	1.00	4140	---	---	17.0	4.20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
26...	1300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
26...	1904	1.00	1710	---	---	19.0	5.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
26...	1912	1.00	2940	---	---	20.0	2.50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
26...	1920	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SEP	0920	---	4020	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10...	0932	1.60	4020	---	---	23.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
16...	0900	---	4020	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
22...	0825	---	4020	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
22...	0837	1.60	4020	---	---	20.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

01655480 APPENDIX A
 - POTOMAC R AT INDIAN HEAD, MD

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LDC- ATION, CROSS SECTION (FIT F# L BANK)	(00009)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	(00077)	LIGHT DEPT-4 TO 1%	(00034)	LIGHT DEPTH TO 10%	(00198)	LIGHT DEPTH TO 50%	(00199)	LIGHT INCID, 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, BIOCHEM, CARBON. DAYS LAGTIME/ AT 20C (82135)	OXYGEN DEMAND, INVE- DIATE/ (MG/L) (00302)
OCT	28...	---	500	---	---	---	---	---	---	---	---	---	---	---	---	0.00	0.0
DEC	0849	3.00	750	---	---	18.0	---	---	---	---	---	---	---	---	---	---	---
20...	0850	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	0.00	0.0
20...	0856	3.00	5300	---	---	18.0	---	---	---	---	---	---	---	---	---	---	---
JAN	1134	1.00	5300	---	---	13.0	---	---	---	---	---	---	---	---	---	---	---
16...	1145	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	0.00	0.0
FER	1020	---	500	---	---	---	---	---	---	---	---	---	---	---	---	---	1.0
19...	1026	3.00	500	---	---	12.0	---	---	---	---	---	---	---	---	---	---	---
19...	1030	---	5300	---	---	---	---	---	---	---	---	---	---	---	---	---	0.3
19...	1043	3.00	5300	---	---	18.0	---	---	---	---	---	---	---	---	---	---	---
MAR	0840	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	0.00	0.0
18...	0851	3.00	5300	---	---	12.0	---	---	---	---	---	---	---	---	---	---	---
APR	1345	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	0.00	0.0
22...	1348	3.00	500	---	---	16.0	---	---	---	---	---	---	---	---	---	---	---
22...	1354	3.00	5300	---	---	14.0	---	---	---	---	---	---	---	---	---	---	---
MAY	0906	3.00	500	---	---	18.0	---	---	---	---	---	---	---	---	---	---	---
09...	0911	3.00	5300	---	---	12.0	---	---	---	---	---	---	---	---	---	---	---
19...	1213	3.00	500	---	---	24.0	---	---	---	---	---	---	---	---	---	---	---
19...	1225	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	0.00	0.0
19...	1232	3.00	5300	---	---	24.0	---	---	---	---	---	---	---	---	---	---	---
JUN	1215	2.00	1200	---	---	23.0	---	---	---	---	---	---	---	---	---	---	---
17...	1230	2.00	2340	---	---	19.0	---	---	---	---	---	---	---	---	---	---	0.00
17...	1240	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17...	1241	3.00	3480	---	---	20.0	---	---	---	---	---	---	---	---	---	---	---
17...	1250	2.00	5420	---	---	22.0	---	---	---	---	---	---	---	---	---	---	---
27...	0807	4.00	1200	---	---	18.0	---	---	---	---	---	---	---	---	---	---	---
27...	0918	2.00	2340	---	---	27.0	---	---	---	---	---	---	---	---	---	---	---
27...	0825	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	0.00	0.0
27...	0827	3.00	3480	---	---	24.0	---	---	---	---	---	---	---	---	---	---	---
27...	0836	3.00	5420	---	---	23.0	---	---	---	---	---	---	---	---	---	---	---
JUL	0902	3.00	1200	---	---	22.0	---	---	---	---	---	---	---	---	---	---	---
04...	0913	2.00	2340	---	---	24.0	---	---	---	---	---	---	---	---	---	---	---

APPENDIX A
 01655480 - POTOMAC R AT INDIAN HEAD, MD ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (00320)	OXYGEN DEMAND, BIOCHEM NITROG, JAYS LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG, K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG, ULT. (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (00319)	DEOXY- GENA- TION STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCJCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
OCT 28...	.09	4.2	8.0	.33	1.2	5.4	--	--	--	--
DEC 20...	--	--	--	--	--	--	--	--	--	--
20...	.11	3.5	5.5	.42	5.2	8.8	--	--	--	4500
20...	--	--	--	--	--	--	--	--	--	--
JAN 16...	--	--	--	--	--	--	--	--	--	--
16...	.15	7.3	9.5	.40	4.8	13	--	--	--	5700
FER 19...	.16	6.5	10.0	.11	5.7	12	--	--	--	4700
19...	--	--	--	--	--	--	--	--	--	--
19...	.09	8.0	10.0	.38	3.1	11	--	--	--	4400
19...	--	--	--	--	--	--	--	--	--	--
MAR 18...	.12	4.9	8.2	.39	2.6	7.4	--	--	--	29000
18...	--	--	--	--	--	--	--	--	--	--
APR 22...	.12	3.4	10.0	.20	1.4	4.8	--	--	--	18000
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
MAY 09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	.13	3.3	11.0	.32	1.6	4.9	--	--	--	30000
19...	--	--	--	--	--	--	--	--	--	--
JUN 17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	.11	9.1	9.8	.24	3.0	12	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	.10	5.5	3.1	.56	8.3	14	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
JUL 04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--

01655480 APPENDIX A
 POTOMAC R AT INDIAN HEAD, MD ---Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION	CROSS SECTION (FT FMI L BANK)	TRANS- PAR- ENCY (SECCHI DISK IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID- 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM- CARBON. DAYS LAGTIME! AT 20C (82135)	OXYGEN DEMAND, IMVE- DIATE (MG/L) (00302)
JUL											
04...	0921	3.00	3480		22.0						
04...	0926	2.00	5420		19.0						
04...	0930		50000								
09...	0825		50000								
09...	0828	3.00	1200		23.0						
09...	0833	2.00	2340		24.0						
09...	0836	3.00	3480		24.0						
09...	0841	2.00	5420		21.0						
16...	0832	1.00	1200		22.0						
16...	0837	1.00	2340		22.0						
16...	0900		50000								
16...	0902	1.00	3480		23.0						
16...	0907	1.00	5420		23.0						
30...	0932	1.00	1200		14.0						
30...	0939	1.00	2340		18.0						
30...	0940		50000								
30...	1002	1.00	3480		16.0						
30...	1017	1.00	5420		11.0						
AUG											
06...	0832	1.00	1200		18.0	5.70		.700	370		
06...	0842	1.00	2340		16.0	5.00		.800	760		
06...	0850		50000								
06...	0902	1.00	3440		18.0	4.40		.400	890		
06...	0922	1.00	5420		20.0	5.00		.700	900		
06...	1858	1.00	1200		18.0	6.00		1.000	150		
06...	1903	1.00	2340		19.0	6.00		1.000	150		
06...	1920		50000								
06...	1922	1.00	3480		18.0	4.00		.500	150		
06...	1926	1.00	5420		16.0	4.00		.500	150		
13...	0904	1.00	1200		19.0	5.00		.700	850		
13...	0923	3.00	2340		22.0	5.70		.900	870		
13...	0930		50000								
13...	0944	1.00	3480		18.0	4.80		1.000	1100		
13...	0948	1.00	5420		17.0	4.40		.400	950		
13...	1914	1.00	1200		18.0	6.00		1.000	100		
13...	1926	1.00	2340		16.0		2.500	.800	70.0		
13...	1930		50000								
13...	1948	1.00	3480		13.0		2.000	.340	30.0		
13...	1953	1.00	5420		12.0			.170	20.0		
19...	1110		50000								

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND BIOCHEM ULT. (MG/L) (00320)	OXYGEN DEMAND BIOCHEM LAGTIME AT 20C (92135)	DEOXYGE NATION NITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SEN- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUL 04...	---	---	---	---	---	---	---	---	---	---
04...	.16	5.8	3.8	.16	4.3	10	---	---	---	---
04...	.16	7.9	9.1	.22	2.4	10	---	---	---	---
09...	---	---	---	---	---	---	---	---	---	---
09...	---	---	---	---	---	---	---	---	---	---
09...	---	---	---	---	---	---	---	---	---	---
09...	---	---	---	---	---	---	---	---	---	---
16...	---	---	---	---	---	---	---	---	---	---
16...	---	---	---	---	---	---	---	---	---	---
16...	.16	6.5	1.3	.14	3.0	9.5	---	---	---	---
16...	---	---	---	---	---	---	---	---	---	---
16...	---	---	---	---	---	---	---	---	---	---
30...	---	---	---	---	---	---	---	---	---	---
30...	---	---	---	---	---	---	---	---	---	---
30...	.15	8.1	3.2	.07	7.8	16	---	0	360	43000
30...	---	---	---	---	---	---	---	---	---	---
30...	---	---	---	---	---	---	---	---	---	---
AUG 06...	---	---	---	---	---	---	---	---	---	---
06...	---	---	---	---	---	---	---	---	---	---
06...	.13	9.3	.00	.20	2.7	12	---	0	470	36000
06...	---	---	---	---	---	---	---	---	---	---
06...	---	---	---	---	---	---	---	---	---	---
06...	---	---	---	---	---	---	---	---	---	---
06...	---	---	---	---	---	---	---	---	---	---
06...	.20	11	12.0	.37	3.4	15	---	---	---	31000
06...	---	---	---	---	---	---	---	---	---	---
06...	---	---	---	---	---	---	---	---	---	---
13...	---	---	---	---	---	---	---	---	---	---
13...	---	---	---	---	---	---	---	---	---	---
13...	.14	8.3	.19	.07	5.4	14	---	---	---	---
13...	---	---	---	---	---	---	---	---	---	---
13...	---	---	---	---	---	---	---	---	---	---
13...	---	---	---	---	---	---	---	---	---	---
13...	---	---	---	---	---	---	---	---	---	---
13...	.16	11	2.5	.21	6.0	17	---	---	---	43000
13...	---	---	---	---	---	---	---	---	---	---
13...	---	---	---	---	---	---	---	---	---	---
19...	.13	8.7	.54	.07	7.0	16	---	---	---	---

APPENDIX A
 POTOMAC R AT INDIAN HEAD, MD --Cont.

01655480

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CRS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (SECCHI DISK) (TN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, CARBON. DAYS LAGTIME AT 20C (82135)
AUG	19...	3.00	1200	25.0	4.90	---	---	120	---	---
	19...	3.00	5300	14.0	2.70	---	---	130	---	---
	20...	1.00	2340	16.0	---	---	---	---	---	---
	20...	1.00	1200	16.0	4.50	---	---	---	---	---
	20...	---	50000	---	---	---	---	---	---	0.00
	20...	1.00	3480	16.0	4.50	---	---	---	---	---
	20...	1.00	5420	17.0	4.25	---	---	---	---	---
	20...	---	50000	---	---	---	---	---	---	0.00
	20...	1.00	3480	13.0	4.70	---	---	50.0	---	---
	20...	1.00	5420	14.0	4.80	---	---	1.400	---	---
	20...	1.00	1200	20.0	6.00	---	---	1.000	---	---
	20...	1.00	2340	20.0	5.90	---	---	1.400	---	---
	25...	---	50000	---	---	---	---	---	---	0.00
SEP	03...	---	50000	---	---	---	---	---	---	0.00
	15...	1.00	1200	---	4.00	---	---	0.080	75.0	---
	15...	---	50000	---	---	---	---	---	---	0.00
	15...	1.00	2340	---	---	---	---	---	---	---
	15...	1.00	3480	---	3.60	---	---	0.170	45.0	---
	15...	1.00	5420	---	4.00	---	---	0.170	33.0	---
	16...	---	500	---	---	---	---	---	15.0	---
	16...	3.00	500	20.0	6.50	---	---	---	---	0.00
	172A	---	---	---	---	---	---	250	---	---

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. (00320)	OXYGEN DEMAND, BIOCHEM NITROS. DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROS. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31616)	STREP- TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
AUG 19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	.12	12	.00	.00	.00	12	--	--	--	<56000
20...	--	--	--	--	--	--	--	--	--	--
20...	.13	8.0	1.5	.09	5.5	13	--	--	--	56000
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	.14	7.3	.00	.05	3.4	11	--	--	--	--
SEP 03...	.17	7.4	2.3	.19	3.2	11	--	--	--	85000
15...	--	--	--	--	--	--	--	--	--	--
15...	.12	7.9	1.9	.16	5.8	14	--	--	--	<170000
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
16...	.12	6.3	1.0	.30	3.7	10	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--

01655480 APPENDIX A - POTOMAC R AT INDIAN HEAD, MD --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE: LOC- ATION, CROSS SECTION (FT FW L BANK)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
OCT										
02...	1746	1.00	1200	22.0	--	--	--	--	--	--
02...	1800	---	50000	---	--	--	--	--	--	.00
02...	1807	1.00	3480	19.0	--	--	--	--	--	--
02...	1812	1.00	5420	19.0	--	--	--	--	--	--
03...	0806	1.00	1200	18.0	--	--	--	--	--	--
03...	0814	1.00	2340	16.0	--	--	--	--	--	--
03...	0827	1.00	3480	17.0	--	--	--	--	--	--
03...	0837	1.00	5420	16.0	--	--	--	--	--	--
21...	1208	1.00	1200	18.0	--	2.800	.800	1400	--	--
21...	1222	1.00	5420	12.0	--	1.800	.800	1350	--	--
21...	1237	1.00	3480	12.0	--	2.000	1.000	1200	--	--
21...	1251	1.00	2340	18.0	5.00	3.000	--	1050	--	.00
21...	1255	---	50000	---	--	--	--	--	--	.0
NOV										
18...	1000	---	50000	---	--	--	--	--	--	.00
18...	1011	2.00	1200	25.0	12.0	--	--	400	--	--
18...	1034	2.00	2340	31.0	11.0	--	--	180	--	--
18...	1047	2.00	3480	25.0	9.00	--	--	210	--	--
18...	1052	2.00	5420	28.0	8.50	--	--	250	--	--
DEC										
16...	1113	1.00	1200	18.0	6.75	--	--	220	--	--
16...	1120	---	50000	---	--	--	--	--	--	.0
16...	1129	1.00	2340	23.0	6.50	--	--	200	--	--
16...	1139	1.00	3480	23.0	7.00	--	--	220	--	--
16...	1147	1.00	5420	26.0	9.00	--	--	240	--	--
FEB										
04...	1208	2.00	1500	26.0	9.00	--	--	150	--	--
04...	1210	---	1500	---	--	--	--	--	--	.00
04...	1219	2.00	5300	24.0	7.00	--	--	250	--	--
17...	1218	2.00	1500	18.0	--	--	--	--	--	--
MAR										
04...	0746	2.00	1500	11.0	--	--	--	--	--	.00
04...	0750	---	1500	---	--	--	--	--	--	.0
APR										
01...	1538	2.00	1500	20.0	--	--	--	--	--	--
15...	1000	---	1500	---	--	--	--	--	--	.00
15...	1008	2.00	1500	6.0	4.30	--	--	2400	--	--
15...	1022	2.00	5300	7.0	--	--	--	--	--	--
MAY										
19...	1025	---	1500	---	--	--	--	--	--	.00
19...	1033	2.00	1500	16.0	4.20	--	--	130	--	--
19...	1040	---	5300	---	--	--	--	--	--	.00
19...	1044	2.00	5300	12.0	3.80	--	--	200	--	--
JUN										

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARRON K1 TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (M3/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS, LAGTIME AT 20C. (92135)	DEOXYGE NATION K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. K1 TO BASE E PER DAY (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOC FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
OCT 02...	..	..	..	..	..	..	..	..	..	..
02...	.13	4.3	.69	.05	3.9	8.3	..	..	..	37000
02...	..	..	..	..	..	..	..	..	..	..
02...	..	..	..	..	..	..	..	..	..	..
03...	..	..	..	..	..	..	..	..	..	..
03...	..	..	..	..	..	..	..	..	..	..
03...	..	..	..	..	..	..	..	..	..	..
21...	..	..	..	..	..	..	..	..	..	..
21...	..	..	..	..	..	..	..	..	..	..
21...	..	..	..	..	..	..	..	..	..	..
21...	.21	4.5	2.7	.10	4.1	8.6	..	..	..	42000
NOV 18...	.14	3.3	8.6	.20	2.4	5.7	..	..	..	8600
18...	..	..	..	..	..	..	..	..	..	..
18...	..	..	..	..	..	..	..	..	..	..
18...	..	..	..	..	..	..	..	..	..	..
18...	..	..	..	..	..	..	..	..	..	..
DEC 16...	..	..	..	..	..	..	..	..	..	..
16...	.13	5.0	6.5	.13	2.4	7.4	..	..	..	4700
16...	..	..	..	..	..	..	..	..	..	..
16...	..	..	..	..	..	..	..	..	..	..
16...	..	..	..	..	..	..	..	..	..	..
FFR 04...	..	..	..	..	..	..	..	..	..	..
04...	.06	4.0	9.9	.32	7.0	11	..	..	..	..
04...	..	..	..	..	..	..	..	..	..	..
17...	..	..	..	..	..	..	..	..	..	..
MAR 04...	..	..	..	..	..	..	..	..	..	..
04...	.08	3.5	4.0	.25	1.8	5.3	..	..	..	<3900
04...	..	..	..	..	..	..	..	..	..	..
APR 01...	..	..	..	..	..	..	..	..	..	..
15...	.15	3.3	2.4	.17	3.4	6.7	..	..	..	3300
15...	..	..	..	..	..	..	..	..	..	..
15...	..	..	..	..	..	..	..	..	..	..
MAY 19...	.12	3.1	1.8	.23	2.8	6.0	..	..	..	14000
19...	..	..	..	..	..	..	..	..	..	..
19...	.19	2.4	3.6	.15	3.8	6.2	..	..	..	9800
19...	..	..	..	..	..	..	..	..	..	..
JUN 01...	..	..	..	..	..	..	..	..	..	..

APPENDIX A
 - POTOMAC R AT INDIAN HEAD, MD ---Cont.

01655480

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLING DEPTH (FEET)	SAMPLE LOCATION	TRANS-PAR-ENCY (SECCHI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INTENS. (U-EIMS) /SQM/S	OXYGEN DEMAND, IMMEDIATE (MG/L)	OXYGEN DEMAND, BIOCHEMICAL CARBON, DAYS LAGTIME AT 20C (82135)
		(00003)	(00009)	(00077)	(00034)	(00198)	(00199)	(00200)	(00302)	(82135)
JUN										
01...	1735	2.00	5300	12.0	--	--	--	--	--	--
30...	1320	---	1500	---	--	--	--	--	0.00	0.00
30...	1332	2.00	1500	19.0	6.50	--	950	--	--	--
30...	1340	---	5300	---	--	--	--	--	0.00	0.00
30...	1342	2.00	5300	17.0	4.00	--	1900	--	--	--
JUL										
08...	1636	2.00	1200	24.0	8.00	--	1.200	900	--	0.00
08...	1640	---	50000	---	--	--	--	--	0.00	0.00
08...	1650	2.00	2340	25.0	6.00	--	0.800	1000	--	--
08...	1657	2.00	3480	19.0	--	--	--	--	--	--
08...	1704	2.00	5420	18.0	4.20	--	0.400	1000	--	0.00
20...	1120	---	50000	---	--	--	--	--	0.00	0.00
20...	1129	1.00	1200	28.0	--	--	--	--	--	--
20...	1138	1.00	2340	30.0	--	--	--	--	--	--
20...	1142	1.00	3480	18.0	--	--	--	--	--	--
20...	1944	1.00	1200	19.0	--	--	--	--	--	0.00
20...	1950	---	50000	---	--	--	--	--	0.00	0.00
20...	1959	1.00	2340	22.0	--	--	--	--	--	--
21...	0734	1.00	1200	27.0	--	--	--	--	--	--
21...	0745	---	50000	---	--	--	--	--	0.00	0.00
21...	0749	1.00	2340	24.0	--	--	--	--	--	--
21...	0757	1.00	3480	24.0	--	--	--	--	--	--
21...	0802	1.00	5420	12.0	--	--	--	--	--	--
21...	1924	1.00	5420	17.0	3.00	--	0.400	370	--	--
21...	1934	1.00	3480	20.0	4.10	--	0.300	250	--	--
21...	1940	---	50000	---	--	--	--	--	0.00	0.00
21...	1949	1.00	2340	26.0	5.00	--	0.600	160	--	--
21...	1954	1.00	1200	26.0	5.70	--	0.700	39.0	--	--
22...	0854	1.00	1200	22.0	--	--	--	--	--	--
22...	0908	1.00	2340	24.0	--	--	--	--	--	--
22...	0912	1.00	3480	19.0	--	--	--	--	--	--
22...	0915	---	50000	---	--	--	--	--	0.00	0.00
28...	0935	---	1500	---	--	--	--	--	0.00	0.00
28...	0949	1.60	1500	---	6.70	--	--	400	--	0.00
28...	0955	---	5300	---	--	--	--	--	0.00	0.00
28...	0957	1.60	5300	19.0	3.80	--	--	250	--	0.00
AUG										
06...	1649	1.00	1200	19.0	2.50	--	0.750	120	--	--
06...	1658	1.00	2340	20.0	2.00	--	0.750	60.0	--	--
06...	1700	---	50000	---	--	--	--	--	0.00	0.00
06...	1712	1.00	3480	19.0	--	--	0.750	130	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION (92133) AT 20C	OXYGEN DEMAND, BIOCHEM. ULT. (MG/L) (00320)	OXYGEN DEMAND, NITROG. KI TO BASE E PER DAY AT 20C (82135)	DEOXYGE NATION (82132) AT 20C	OXYGEN DEMAND, BIOCHEM. ULT. (MG/L) (00321)	OXYGEN DEMAND, UNINHIB. ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUN 01...	--	3.3	2.9	--	1.8	5.6	--	--	--	<8400
30...	.11	--	--	.21	--	--	--	--	--	--
30...	--	7.5	4.5	.21	2.1	9.7	--	--	--	30000
30...	.14	--	--	--	--	--	--	--	--	--
JUL 08...	--	5.2	2.3	.18	2.6	7.8	--	--	--	>14000
08...	.12	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
20...	.16	6.2	4.7	.11	3.2	9.4	--	--	--	>21000
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	.13	7.0	7.9	.24	1.8	8.7	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
21...	--	7.0	11.0	.22	2.5	9.6	--	--	--	>11000
21...	.16	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	.13	7.3	5.9	.23	3.5	11	--	--	--	>21000
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	.14	4.1	7.0	.12	3.2	7.3	--	--	--	>11000
28...	.07	5.1	4.2	.19	1.8	6.9	--	--	--	>14000
28...	--	--	--	--	--	--	--	--	--	--
28...	.06	14	4.0	.12	2.8	17	--	--	--	>52000
28...	--	--	--	--	--	--	--	--	--	--
AUG 06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	.15	7.9	.00	.22	1.6	9.4	--	--	--	33000
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--

016554R0 - POTOMAC R AT INDIAN HEAD, MD --Cont.

APPENDIX A

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (SECCHI DISK (IN))	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
AUG										
06...	1724	1.00	5420	18.0	--	--	--	--	--	--
18...	0950	---	50000	---	--	--	--	--	.00	.0
18...	0956	1.60	1200	22.0	--	--	--	--	--	--
18...	1010	1.60	2340	17.0	--	--	--	--	--	--
18...	1017	1.60	3480	18.0	--	--	--	--	--	--
18...	1022	1.60	5420	13.0	--	--	--	--	--	--
24...	2110	---	50000	---	--	--	--	--	.00	.0
25...	0919	1.00	1200	20.0	5.30	--	.700	870	--	--
25...	0936	1.00	2340	19.0	4.30	--	.700	950	--	--
25...	0947	1.00	3480	18.0	4.30	--	.700	1050	--	--
25...	0957	1.00	5420	17.0	4.00	--	.500	1150	--	--
25...	1000	---	50000	---	--	--	--	--	.00	.0
25...	1854	1.00	5420	14.0	--	2.200	.500	70.0	--	.0
25...	1900	---	50000	---	--	--	--	--	.00	.0
25...	1918	1.00	1200	20.0	--	2.500	.500	35.0	--	--
26...	0929	1.00	1200	17.0	4.70	--	.600	900	--	--
26...	0936	1.00	2340	19.0	5.80	--	.500	800	--	--
26...	0942	1.00	3480	17.0	4.00	--	.400	940	--	--
26...	0952	1.00	5420	14.0	4.00	--	.500	1050	--	--
26...	1015	---	50000	---	--	--	--	--	.00	.0
26...	1809	1.00	5420	15.0	3.50	--	.500	300	--	--
26...	1818	1.00	3480	14.0	4.10	--	.580	300	--	--
26...	1828	1.00	1200	18.0	5.00	--	.500	300	--	--
26...	1835	---	50000	---	--	--	--	--	.00	.0
26...	1845	1.00	2340	18.0	5.00	--	.580	200	--	--
SEP										
22...	0750	1.60	1500	18.0	--	--	--	--	--	.0
22...	0755	---	1500	---	--	--	--	--	.00	.0
22...	0807	1.60	5300	17.0	--	--	--	--	--	.0
22...	0810	---	5300	---	--	--	--	--	.00	.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARRON- ACEOUS (00320)	OXYGEN DEMAND, BIOCHEM NITROG. K1 TO BASE E LAGTIME AT 20C (82135)	DEOXYGE NATION K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (00321)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (00319)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (00319)	DEOXY- SENA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
AUG 06...	..	5.3	..	..	..	..	..	..	..	..	..
18...	.18	..	..	.00	..	5.3	..	..	..	..	>11000
18...	..	..	..	..	..	..	..	..	..	..	..
18...	..	..	..	..	..	..	..	..	..	..	..
18...	..	..	..	..	..	..	..	..	..	..	..
24...	.13	5.4	9.0	.12	3.2	8.6	..	..	..	..	>18000
25...	..	..	..	..	..	..	..	..	..	..	..
25...	..	..	..	..	..	..	..	..	..	..	..
25...	..	..	..	..	..	..	..	..	..	..	..
25...	.09	6.0	1.4	.05	5.6	12	..	..	..	..	>23000
25...	..	..	..	..	..	..	..	..	..	..	..
25...	.07	5.2	.91	.13	4.5	9.8	..	..	..	..	>21000
25...	..	..	..	..	..	..	..	..	..	..	..
26...	..	..	..	..	..	..	..	..	..	..	..
26...	..	..	..	..	..	..	..	..	..	..	..
26...	..	..	..	..	..	..	..	..	..	..	..
26...	.08	8.5	2.2	.10	1.4	9.9	..	..	..	..	>16000
26...	..	..	..	..	..	..	..	..	..	..	..
26...	..	..	..	..	..	..	..	..	..	..	..
26...	..	..	..	..	..	..	..	..	..	..	..
26...	.15	7.1	..	.00	.00	7.1	..	..	..	..	>23000
26...	..	..	..	..	..	..	..	..	..	..	..
SEP 22...	..	..	..	..	..	..	..	..	..	..	..
22...	.12	3.5	2.0	.15	2.5	6.0	..	..	..	..	>14000
22...	..	..	..	..	..	..	..	..	..	..	..
22...	.12	4.5	2.4	.15	1.7	6.2	..	..	..	..	>30000

APPENDIX A
 - POTOMAC RIVER AT QUANTICO, VA.

01658710

WATER QUALITY DATA: WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SAMPLE LOC- ATION CRSS SECTION (FT FM L BANK) (00009)	TRANS- PAR- ENCY (SECCI DISK (IV) (00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET) (00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET) (00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET) (00199)	LIGHT INCID. 400- 700NM INTEVS. (U-EINS /SQM/S) (00200)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE/ (MG/L) (00302)
OCT										
23...	0840	---	6900	---	---	---	---	---	.00	.0
23...	1100	---	6900	---	---	---	---	---	.00	.0
25...	1730	---	6900	---	---	---	---	---	.00	.0
25...	2047	---	6900	---	---	---	---	---	.00	.0
30...	0754	---	6900	---	---	---	---	---	.00	.0
30...	1350	---	6900	---	---	---	---	---	.00	.0
NOV										
01...	0908	---	6900	---	---	---	---	---	.00	.0
01...	1511	---	6900	---	---	---	---	---	.00	.0
06...	0645	---	6900	---	---	---	---	---	.00	.0
06...	1310	---	6900	---	---	---	---	---	.00	.0
08...	0318	---	6900	---	---	---	---	---	.00	.0
08...	0901	---	6900	---	---	---	---	---	.00	.0
08...	1532	---	6900	---	---	---	---	---	.00	.0
08...	2140	---	6900	---	---	---	---	---	.00	.0
15...	0915	---	6900	---	---	---	---	---	.00	.0
15...	1526	---	6900	---	---	---	---	---	.00	.0
20...	0610	---	6900	---	---	---	---	---	.00	.0
20...	1249	---	6900	---	---	---	---	---	.00	.0
22...	0755	---	6900	---	---	---	---	---	.00	.0
22...	1008	---	6900	---	---	---	---	---	.00	.0
27...	0634	---	6900	---	---	---	---	---	.00	.0
27...	0956	---	6900	---	---	---	---	---	.00	.0
29...	1407	---	6900	---	---	---	---	---	.00	.0
29...	1714	---	6900	---	---	---	---	---	.00	.0
DEC										
04...	1159	---	6900	---	---	---	---	---	.00	.0
04...	1521	---	6900	---	---	---	---	---	.00	.0
14...	1000	---	6900	---	---	---	---	---	.00	.0
14...	1610	---	6900	---	---	---	---	---	.00	.0
19...	0640	---	6900	---	---	---	---	---	.00	.0
28...	0830	---	6900	---	---	---	---	---	.00	.0
28...	1450	---	6900	---	---	---	---	---	.00	.0
JAN										
04...	0830	---	6900	---	---	---	---	---	.00	.0
04...	1450	---	6900	---	---	---	---	---	.00	.0
09...	1340	---	6900	---	---	---	---	---	.00	.0
09...	1650	---	6900	---	---	---	---	---	.00	.0
16...	1210	---	6900	---	---	---	---	---	.00	.0
22...	1230	---	6900	---	---	---	---	---	.00	.0

01658710 APPENDIX A
 - POTOMAC RIVER AT QUANTICO, VA, ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM JLT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT <1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
OCT 23...	.16	11	--	.00	.00	11	--	--	--	--
23...	.25	9.9	--	.00	.00	9.8	--	--	--	--
25...	.15	5.2	4.0	.28	.60	5.8	--	--	--	--
25...	.17	5.5	11.0	.26	1.5	7.2	--	--	--	--
30...	.16	6.9	12.3	.64	2.4	9.2	--	--	--	--
30...	.15	7.3	14.1	--	1.8	9.2	--	--	--	--
NOV 01...	.13	5.5	9.0	.20	2.2	7.8	--	--	--	--
01...	.13	7.4	10.3	.16	2.6	10	--	--	--	--
06...	.16	5.8	7.0	.17	2.3	8.1	--	--	--	--
06...	.15	7.0	--	.00	.00	7.0	--	--	--	--
08...	.13	5.5	15.0	--	1.2	6.9	--	--	--	--
08...	.14	5.1	13.0	.20	2.5	8.6	--	--	--	--
08...	.16	6.7	11.8	.16	3.7	10	--	--	--	--
08...	.11	5.7	3.9	.15	1.4	7.1	--	--	--	--
15...	.23	6.5	--	.00	.00	4.6	--	--	--	--
15...	.18	4.2	9.0	.00	.00	6.5	--	--	--	--
20...	.18	5.2	7.7	.18	2.0	6.2	--	--	--	--
20...	.12	4.2	7.0	.28	2.2	7.4	--	--	--	--
22...	.13	4.1	12.0	.15	1.6	5.8	--	--	--	--
22...	.17	4.4	5.5	.41	1.2	5.4	--	--	--	--
27...	.21	4.9	5.4	.33	2.0	6.4	--	--	--	--
29...	.16	4.7	4.3	.33	1.7	6.4	--	--	--	--
29...	.11	4.9	4.7	.17	1.4	6.0	--	--	--	--
DEC 04...	.12	6.3	.00	.75	.50	5.4	--	--	--	--
04...	.16	6.7	.90	.15	1.0	7.3	--	--	--	--
14...	.15	3.5	5.4	.00	.00	6.7	--	--	--	--
14...	.22	3.5	5.4	.42	5.0	8.6	--	--	--	--
19...	.24	3.8	5.4	.24	5.5	9.2	--	--	--	--
28...	.11	5.9	13.0	.24	6.4	10	--	--	--	--
28...	.10	5.8	2.5	--	2.9	8.7	--	--	--	--
JAN 04...	.15	4.0	5.7	.31	.80	6.6	--	--	--	--
04...	.24	6.3	3.5	.42	2.8	6.8	--	--	--	--
09...	.23	4.5	5.3	.16	6.7	13	--	--	--	--
09...	.19	6.9	9.0	.24	4.3	8.8	--	--	--	--
16...	.12	8.5	15.0	.41	2.6	9.5	--	--	--	--
22...	.15	4.7	7.2	.26	4.0	12	--	--	--	--
					1.6	6.3	--	--	--	--

01658710 - POTOMAC RIVER AT QUANTICO, VA. --Cont.

APPENDIX A

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAMPLING DEPTH (FEET)	SAMPLE LOCATION	TRANS-PAR-ENCY (SECCHI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCIDENCE 400-700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMY-DATE (MG/L)	OXYGEN DEMAND, BIOCHEM. CARBON. DAYS LAGTIME AT 20C (82135)
JAN 22...	1900	---	6900	---	---	---	---	---	.0	.00
23...	1130	---	6900	---	---	---	---	---	.0	.00
23...	1730	---	6900	---	---	---	---	---	.0	.00
24...	0850	---	6900	---	---	---	---	---	.0	.00
24...	1610	---	6900	---	---	---	---	---	.0	.00
25...	1330	---	6900	---	---	---	---	---	.0	.00
25...	1640	---	6900	---	---	---	---	---	.0	.00
25...	1930	---	6900	---	---	---	---	---	.0	.00
26...	0740	---	6900	---	---	---	---	---	.0	.00
26...	1140	---	6900	---	---	---	---	---	.0	.00
26...	1500	---	6900	---	---	---	---	---	.0	.00
27...	1230	---	6900	---	---	---	---	---	.0	.00
30...	0900	---	6900	---	---	---	---	---	.0	.00
30...	1500	---	6900	---	---	---	---	---	.0	.00
FEB 01...	0700	---	6900	---	---	---	---	---	.0	.00
01...	0950	---	6900	---	---	---	---	---	.0	.00
01...	1330	---	6900	---	---	---	---	---	.0	.00
01...	1650	---	6900	---	---	---	---	---	.0	.00
15...	1320	---	6900	---	---	---	---	---	.0	.00
15...	1710	---	6900	---	---	---	---	---	.0	.00
15...	1920	---	6900	---	---	---	---	---	.0	.00
26...	0930	---	6900	---	---	---	---	---	.0	.00
26...	1300	---	6900	---	---	---	---	---	.0	.00
26...	1540	---	6900	---	---	---	---	---	.0	.00
26...	1850	---	6900	---	---	---	---	---	.0	.00
27...	1020	---	6900	---	---	---	---	---	.0	.00
28...	0750	---	6900	---	---	---	---	---	.0	.00
28...	1440	---	6900	---	---	---	---	---	.0	.00
28...	1720	---	6900	---	---	---	---	---	.0	.00
MAR 02...	1320	---	6900	---	---	---	---	---	.0	.00
05...	1230	---	6900	---	---	---	---	---	.0	.00
07...	0530	---	6900	---	---	---	---	---	.0	.00
07...	1140	---	6900	---	---	---	---	---	.0	.00
09...	0730	---	6900	---	---	---	---	---	.0	.00
12...	1250	---	6900	---	---	---	---	---	.0	.00
12...	1530	---	6900	---	---	---	---	---	.0	.00
APR 09...	0851	---	6900	---	---	---	---	---	.0	.00

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	DEDYGE NATION CARRON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0-45 UM-VF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JAN 22...	.16	2.0	3.7	.15	4.1	6.1	--	--	--	--
23...	.20	3.9	5.9	.23	4.7	8.6	--	--	--	--
23...	.15	3.5	4.2	.32	2.8	6.3	--	--	--	--
24...	.27	4.0	3.6	.09	7.6	12	--	--	--	--
24...	.09	4.5	4.6	.47	2.0	6.6	--	--	--	--
25...	.13	5.1	3.9	.18	3.9	8.9	--	--	--	--
25...	.13	6.4	4.0	.06	3.6	10	--	--	--	--
25...	.16	6.0	5.0	.20	3.0	9.0	--	--	--	--
26...	.12	6.2	5.5	.20	2.7	8.9	--	--	--	--
26...	.19	4.5	4.4	.14	3.2	7.8	--	--	--	--
26...	.15	4.2	3.1	.24	2.2	6.4	--	--	--	--
27...	.10	5.8	3.0	--	1.4	7.2	--	--	--	--
30...	.22	5.5	3.5	.13	4.7	10	--	--	--	--
30...	.18	5.4	2.5	.20	3.3	8.7	--	--	--	--
FEB 13	.13	5.5	4.9	.22	2.5	8.0	--	--	--	--
18	.18	4.2	5.3	.23	2.7	6.9	--	--	--	--
18	.18	4.2	2.0	.15	2.7	7.0	--	--	--	--
13	.13	5.1	6.1	.25	1.6	6.7	--	--	--	--
12	.12	3.4	3.3	.19	4.7	8.1	--	--	--	--
17	.17	3.5	7.5	.45	1.9	5.5	--	--	--	--
14	.14	3.2	3.4	.15	3.7	6.9	--	--	--	--
23	.23	5.5	7.3	.34	4.0	9.6	--	--	--	--
19	.19	4.5	5.5	.20	3.8	8.3	--	--	--	--
33	.33	3.2	7.1	.25	4.5	7.7	--	--	--	--
19	.19	3.5	5.9	.18	5.0	8.5	--	--	--	--
17	.17	5.5	5.1	.16	2.4	8.0	--	--	--	--
28	.28	6.5	3.9	.14	3.0	9.5	--	--	--	--
18	.18	7.9	7.0	.33	1.6	9.5	--	--	--	--
28	.28	6.1	3.6	.12	2.5	8.6	--	--	--	--
MAR 19	.19	3.2	2.9	.07	3.8	7.0	--	--	--	--
05	.16	4.4	--	--	--	--	--	--	--	--
20	.20	2.5	4.9	.12	1.9	4.4	--	--	--	--
07	.07	3.1	8.1	.30	1.3	4.4	--	--	--	--
09	.09	3.5	6.8	.58	.80	4.4	--	--	--	--
16	.16	3.7	--	--	--	--	--	--	--	--
22	.22	2.2	3.7	.21	2.0	4.1	--	--	--	--
APR 17	.17	6.5	2.8	.11	3.5	10	--	--	--	--

01658710 - APPENDIX A - POTOMAC RIVER AT QUANTICO, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FIT FM L BANK)	(00009)	TRANS- PAR- ENCY (SECCHI DISK)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	(00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, IMME- DIATE (MG/L)	(00302)	OXYGEN DEMAND, BIOCHEM- CARBON, DAYS LAGTIME AT 20C (82135)
APR																		
09...	1212	---	6900	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
09...	1436	---	6900	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
09...	1707	---	6900	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
10...	1808	---	6900	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
11...	1115	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
11...	1255	---	6000	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
11...	1309	---	2600	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
11...	1330	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
11...	1515	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
11...	1710	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
11...	1845	---	6900	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
11...	1858	---	6000	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
11...	1912	---	2600	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
11...	2100	---	6900	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
11...	2300	---	6900	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
12...	0100	---	6900	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
12...	0300	---	6900	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
12...	0500	---	6900	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
12...	0700	---	6900	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
12...	0802	---	6000	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
12...	0935	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
JUN																		
11...	1216	---	6900	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
11...	1413	---	6900	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
12...	1145	---	6900	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
12...	1500	---	6900	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
12...	1720	---	6900	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
13...	0900	---	6900	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
13...	1120	---	6900	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
13...	1145	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
13...	1207	1.00	850	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13...	1228	1.00	4250	---	---	24.0	---	---	---	---	---	---	---	---	---	---	---	---
13...	1250	1.00	6900	---	---	18.0	---	---	---	---	---	---	---	---	---	---	---	---
13...	1406	1.00	850	---	---	19.0	---	---	---	---	---	---	---	---	---	---	---	---
13...	1428	1.00	4250	---	---	18.0	---	---	---	---	---	---	---	---	---	---	---	---
13...	1438	1.00	6000	---	---	12.0	---	---	---	---	---	---	---	---	---	---	---	---
13...	1500	---	6900	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
13...	1520	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	0	0	00
13...	1600	1.00	850	---	---	18.0	---	---	---	---	---	---	---	---	---	---	---	---
13...	1620	1.00	4250	---	---	18.0	---	---	---	---	---	---	---	---	---	---	---	---

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MS/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG, LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG, K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG, ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM NITROG, ULT. (MG/L) (00319)	OXYGEN DEMAND, BIOCHEM NITROG, ULT. (MG/L) (00325)	COLI- FORM, FECAL, 0.45' UM-WF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
APR 09...	.11	5.2	2.5	.27	1.2	6.4	--	--	--	--
09...	.13	3.3	2.1	.12	3.9	7.2	--	--	--	--
09...	.17	3.2	3.4	.17	2.5	5.7	--	--	--	--
10...	.18	2.4	3.2	.15	2.9	5.3	--	--	--	--
11...	.18	3.5	4.2	.17	2.1	5.6	--	--	--	--
11...	.20	3.1	3.5	.10	1.9	5.0	--	--	--	--
11...	.18	4.5	1.9	.10	3.5	8.1	--	--	--	--
11...	.21	3.9	4.0	.31	1.5	5.3	--	--	--	--
11...	.17	3.4	--	--	--	--	--	--	--	--
11...	.21	3.0	--	--	--	--	--	--	--	--
11...	.20	3.2	3.8	.09	2.5	5.7	--	--	--	--
11...	.21	2.7	4.8	.57	1.5	4.2	--	--	--	--
11...	.20	3.0	3.9	.35	1.2	4.2	--	--	--	--
11...	.18	5.9	--	--	--	--	--	--	--	--
11...	.18	7.5	--	--	--	7.6	--	--	--	--
12...	.21	5.2	4.1	.11	2.4	--	--	--	--	--
12...	.17	4.9	--	--	--	--	--	--	--	--
12...	.18	4.1	--	--	--	--	--	--	--	--
12...	.15	3.4	3.5	.26	1.5	4.9	--	--	--	--
12...	.12	2.3	2.8	.26	2.2	4.5	--	--	--	--
12...	.18	2.5	2.7	.11	2.8	5.3	--	--	--	--
JUN 11...	.14	5.5	3.3	.11	3.5	9.0	--	--	--	--
11...	.17	5.5	4.3	.14	3.4	8.9	--	--	--	--
12...	.10	8.2	2.5	.32	1.5	9.7	--	--	--	--
12...	.09	6.0	3.5	.22	2.5	8.5	--	--	--	--
12...	.12	5.5	2.9	.23	2.4	8.0	--	--	--	--
13...	.15	4.0	1.9	.19	2.7	6.7	--	--	--	--
13...	.18	3.4	2.2	.19	2.9	6.2	--	--	--	--
13...	.15	5.3	1.0	.15	2.7	8.0	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	.12	4.8	1.9	.24	2.6	7.4	--	--	--	--
13...	.12	5.5	1.3	.24	3.2	8.7	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--

APPENDIX A
 POTOMAC RIVER AT QUANTICO, VA. --Cont.

01658710

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LDC-- ATION, CROSS SECTION (FIT FM, L RANK)	TRANS- PAR- ENCY (SECHI DISK (IN))	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (#2135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (#0302)
JUN	13...	1.00	6900	18.0	--	--	--	--	--	--
	1720	---	5000	---	---	---	---	---	---	0.00
	1806	1.00	850	18.0	--	--	--	--	--	--
	1835	1.00	4250	18.0	--	--	--	--	--	0.00
	1925	---	6900	---	---	---	---	---	---	0.00
	1945	---	5000	---	---	---	---	---	---	0.00
	2400	---	6000	---	---	---	---	---	---	0.00
	0750	1.00	6900	18.0	--	--	--	--	--	--
	0850	1.00	850	18.0	--	--	--	--	--	--
	0905	1.00	2600	22.0	--	--	--	--	--	--
	0923	1.00	6000	15.0	--	--	--	--	--	--
	1020	1.00	6900	18.0	--	--	--	--	--	0.00
	1030	---	5000	---	---	---	---	---	---	--
	1105	1.00	850	24.0	--	--	--	--	--	--
	1200	1.00	6900	18.0	--	--	--	--	--	--
	1310	3.00	850	---	---	---	---	---	---	0.00
	1311	13.0	850	---	---	---	---	---	---	0.00
	1345	7.00	6000	---	---	---	---	---	---	0.00
	1350	23.0	6000	---	---	---	---	---	---	0.00
	1400	6.00	6900	16.0	--	--	--	--	--	0.00
	1420	---	6900	---	---	---	---	---	---	0.00
	1515	1.00	4250	18.0	--	--	--	--	--	0.00
	1655	13.0	850	---	---	---	---	---	---	0.00
	1730	6.00	6000	---	---	---	---	---	---	0.00
	1735	24.0	6000	---	---	---	---	---	---	0.00
	0850	---	6900	---	---	---	---	---	---	0.00
	1230	---	6900	---	---	---	---	---	---	0.00
	1615	---	6900	---	---	---	---	---	---	0.00
JUL	0830	---	6900	---	---	---	---	---	---	0.00
	1300	---	6900	---	---	---	---	---	---	0.00
	1933	3.00	1000	8.0	--	--	--	--	--	0.00
	1120	---	6900	---	---	---	---	---	---	0.00
AUG	03...	---	6900	---	---	---	---	---	---	0.00
	09...	---	6900	---	---	---	---	---	---	0.00
	1250	---	6900	---	---	---	---	---	---	0.00
	1550	---	6900	---	---	---	---	---	---	0.00
SEP	1043	2.50	6000	18.0	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM JLT. CARBON-- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION VITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. JLT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 U4-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUN 13...	---	---	---	---	---	---	---	---	---	---
13...	.14	7.0	.30	.14	2.8	9.8	---	---	---	---
13...	---	---	---	---	---	---	---	---	---	---
13...	---	---	---	---	---	---	---	---	---	---
13...	.12	8.3	3.7	.13	1.7	10	---	---	---	---
13...	.14	7.0	1.4	.25	2.3	9.3	---	---	---	---
13...	.15	5.5	.40	.23	1.6	7.1	---	---	---	---
14...	---	---	---	---	---	---	---	---	---	---
14...	---	---	---	---	---	---	---	---	---	---
14...	---	---	---	---	---	---	---	---	---	---
14...	---	---	---	---	---	---	---	---	---	---
14...	---	---	---	---	---	---	---	---	---	---
14...	.15	5.0	2.3	.28	3.1	8.1	---	---	---	---
14...	---	---	---	---	---	---	---	---	---	---
14...	---	---	---	---	---	---	---	---	---	---
14...	.12	3.0	2.2	.12	5.4	8.4	---	---	---	---
14...	.14	4.9	3.7	.17	2.7	7.5	---	---	---	---
14...	.12	1.8	2.4	.15	4.0	5.8	---	---	---	---
14...	.16	2.9	2.1	.07	5.4	8.2	---	---	---	---
14...	---	---	---	---	---	---	---	---	---	---
14...	.12	5.5	2.5	.19	3.3	8.9	---	---	---	---
14...	---	---	---	---	---	---	---	---	---	---
14...	.15	5.5	3.0	.11	4.3	10	---	---	---	---
14...	.15	5.5	2.5	.10	6.5	12	---	---	---	---
14...	.15	3.5	1.7	.08	6.1	9.6	---	---	---	---
27...	.18	7.0	7.5	.10	3.1	10	---	---	---	---
27...	.15	7.3	4.7	.08	2.4	9.8	---	---	---	---
27...	.23	5.7	4.2	.13	3.5	9.2	---	---	---	---
JUL 11...	.12	6.7	1.9	.07	2.4	9.2	---	---	---	---
17...	.17	5.5	3.2	.10	3.9	9.4	---	---	---	---
20...	---	---	---	---	---	---	---	---	---	---
25...	.12	7.3	3.5	.09	1.9	9.1	---	---	---	---
AUG 03...	.07	8.9	4.0	.12	1.4	10	---	---	---	---
08...	.11	5.0	9.5	.12	1.9	6.9	---	---	---	---
21...	.14	6.9	15.0	---	1.8	8.6	---	---	---	---
21...	.14	6.1	14.0	---	1.2	7.3	---	---	---	---
SEP 07...	---	---	---	---	---	---	---	---	---	---

01658710 APPENDIX A -- POTOMAC RIVER AT QUANTICO, VA. --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LDC-- ATION, CROSS SECTION (FIT FM. L BANK)	TRANS- PAR- ENCY (SECHI DISK (IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (00302)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)
SEP 07...	1417	2.50	2400	12.0	--	--	--	--	--	.00	--
07...	1430	2.50	6000	18.0	--	--	--	--	--	.00	--
08...	1441	.50	2400	6.0	--	--	--	--	--	--	--
10...	0656	.50	6000	12.0	--	--	--	--	--	--	--
10...	0756	.50	2400	11.0	--	--	--	--	--	--	--
10...	1106	1.60	6000	13.0	--	--	--	--	--	--	--
10...	1136	1.60	2400	13.0	--	--	--	--	--	--	--
10...	1336	1.60	2400	14.0	--	--	--	--	--	--	--
10...	1351	1.60	6000	13.0	--	--	--	--	--	--	--
11...	0804	.30	6000	11.0	--	--	--	--	--	--	--
11...	0843	2.60	2400	11.0	--	--	--	--	--	--	--
11...	1020	.70	2400	13.0	--	--	--	--	--	--	--
11...	1025	--	50000	--	--	--	--	--	--	.00	--
11...	1030	.70	6000	16.0	--	--	--	--	--	--	--
11...	1340	.70	6000	14.0	--	--	--	--	--	--	--
12...	0835	1.30	2400	11.0	--	--	--	--	--	--	--
12...	1100	1.00	2400	12.0	--	--	--	--	--	--	--
12...	1110	--	50000	--	--	--	--	--	--	.00	--
12...	1116	1.60	6000	14.0	--	--	--	--	--	--	--
12...	1445	1.00	2400	17.0	--	--	--	--	--	--	--
12...	1455	1.00	6000	14.0	--	--	--	--	--	--	--
14...	1114	.50	6900	8.0	--	--	--	--	--	--	--
14...	1240	--	6900	--	--	--	--	--	--	.00	--
14...	1245	.50	6900	7.0	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	DEOXYGE NATION CARSON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (M5/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. DAYS LAGTIME AT 20C. (92135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT <1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
SEP 07...	--	--	--	--	--	--	--	--	--	--
SEP 07...	--	--	--	--	--	5.8	.17	--	--	--
SEP 08...	--	--	--	--	--	--	--	--	--	--
SEP 10...	--	--	--	--	--	--	--	--	--	--
SEP 10...	--	--	--	--	--	--	--	--	--	--
SEP 10...	--	--	--	--	--	--	--	--	--	--
SEP 10...	--	--	--	--	--	--	--	--	--	--
SEP 10...	--	--	--	--	--	--	--	--	--	--
SEP 10...	--	--	--	--	--	--	--	--	--	--
SEP 11...	--	--	--	--	--	--	--	--	--	--
SEP 11...	--	--	--	--	--	--	--	--	--	--
SEP 11...	--	--	--	--	--	--	--	--	--	--
SEP 11...	.07	4.2	.00	.23	1.1	5.3	--	--	--	--
SEP 11...	--	--	--	--	--	--	--	--	--	--
SEP 11...	--	--	--	--	--	--	--	--	--	--
SEP 12...	--	--	--	--	--	--	--	--	--	--
SEP 12...	--	--	--	--	--	--	--	--	--	--
SEP 12...	.10	3.8	.90	.50	.60	4.4	--	--	--	--
SEP 12...	--	--	--	--	--	--	--	--	--	--
SEP 12...	--	--	--	--	--	--	--	--	--	--
SEP 12...	--	--	--	--	--	--	--	--	--	--
SEP 14...	--	--	--	--	--	--	--	--	--	--
SEP 14...	.13	5.4	2.3	.08	2.1	7.4	--	--	--	59000
SEP 14...	--	--	--	--	--	--	--	--	--	--

APPENDIX A
 01658710 - POTOMAC RIVER AT QUANTICO, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLING DEPTH (FEET)	SAMPLE LOCATION	CROSS SECTION (FT FM BANK)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INTENS. (U-EINS) /SQM/S	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (82135)
OCT 06...	1118	1.00	6000		10.0	--	--	--	--	--	--
OCT 06...	1123	1.00	2300		10.0	--	--	--	--	--	--
OCT 12...	1415	--	6900		--	--	--	--	--	0.00	0.00
OCT 18...	1233	--	6900		--	--	--	--	--	0.00	0.00
OCT 18...	1434	--	6900		--	--	--	--	--	1.3	1.3
OCT 28...	0930	--	6000		--	--	--	--	--	0.00	0.00
OCT 30...	1125	--	6900		--	--	--	--	--	0.00	0.00
NOV 05...	1040	--	6900		--	--	--	--	--	0.00	0.00
NOV 29...	1210	--	50000		--	--	--	--	--	0.00	0.00
NOV 29...	1350	--	50000		--	--	--	--	--	0.00	0.00
NOV 29...	1400	--	6900		--	--	--	--	--	0.00	0.00
DEC 04...	1320	--	50000		--	--	--	--	--	0.00	0.00
DEC 04...	1330	--	6900		--	--	--	--	--	0.00	0.00
DEC 13...	1235	--	6000		--	--	--	--	--	0.00	0.00
DEC 20...	0752	3.00	6000		30.0	--	--	--	--	0.00	0.00
DEC 20...	0800	--	50000		--	--	--	--	--	0.00	0.00
DEC 20...	0803	3.00	2300		30.0	--	--	--	--	0.00	0.00
DEC 28...	0910	--	6900		--	--	--	--	--	0.00	0.00
JAN 03...	0900	--	6900		--	--	--	--	--	0.00	0.00
JAN 03...	1205	--	6900		--	--	--	--	--	0.00	0.00
JAN 09...	1340	--	6900		--	--	--	--	--	0.00	0.00
JAN 16...	1246	1.00	6000		16.0	--	--	--	--	0.00	0.00
JAN 16...	1250	--	50000		--	--	--	--	--	0.00	0.00
JAN 21...	1345	--	6900		--	--	--	--	--	0.00	0.00
FEB 12...	1000	--	6900		--	--	--	--	--	0.00	0.00
FEB 19...	0914	3.00	6000		9.0	--	--	--	--	0.00	0.00
FEB 19...	0920	--	50000		--	--	--	--	--	0.00	0.00
FEB 27...	0840	--	50000		--	--	--	--	--	0.00	0.00
FEB 27...	1200	--	50000		--	--	--	--	--	0.00	0.00
FEB 27...	1400	--	50000		--	--	--	--	--	0.00	0.00
MAR 04...	1340	--	50000		--	--	--	--	--	0.00	0.00
MAR 06...	1350	--	50000		--	--	--	--	--	0.00	0.00
MAR 06...	1710	--	50000		--	--	--	--	--	0.00	0.00
MAR 11...	1215	--	50000		--	--	--	--	--	0.00	0.00
MAR 11...	1450	--	50000		--	--	--	--	--	0.00	0.00

APPENDIX A
 01658710 - POTOMAC RIVER AT QUANTICO, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULIT. CARBON-- ACEOUS (MS/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. KI TO BASE E PER DAY AT 20C (82135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM ULIT. NITROG. ULIT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
OCT 06....	--	--	--	--	--	--	--	--	--	--
OCT 06....	--	--	--	--	--	--	--	--	--	--
OCT 12....	.22	1.9	8.3	.18	2.2	4.1	--	--	--	--
OCT 18....	.08	3.3	5.3	.23	.90	4.2	--	--	--	--
OCT 18....	.15	2.5	10.0	.22	1.9	4.5	--	--	--	--
OCT 28....	.12	2.1	5.3	.24	1.8	4.1	--	--	--	--
OCT 30....	.11	2.5	--	--	--	--	--	--	--	--
NOV 05....	.15	1.9	--	--	--	--	--	--	--	24000
NOV 09....	.14	3.9	9.1	.20	3.1	7.0	--	--	--	13000
NOV 29....	.11	2.8	3.7	.19	3.7	6.5	--	--	--	--
NOV 29....	.12	3.5	9.4	.28	2.9	6.4	--	--	--	--
DEC 04....	.15	3.5	5.7	.30	2.1	5.6	--	--	--	9200
DEC 04....	.14	3.5	5.9	.17	2.7	6.3	--	--	--	--
DEC 13....	.07	3.5	6.5	.28	1.9	5.4	--	--	--	5800
DEC 20....	--	--	--	--	--	--	--	--	--	--
DEC 20....	.09	5.3	5.3	.26	3.1	8.4	--	--	--	6700
DEC 20....	--	--	--	--	--	--	--	--	--	--
DEC 28....	.22	3.0	7.0	.13	5.6	8.6	--	--	--	5100
JAN 03....	.14	3.5	8.8	.20	4.5	7.9	--	--	--	8400
JAN 03....	.14	3.2	9.7	.19	4.9	8.1	--	--	--	9000
JAN 09....	.12	3.7	7.4	.20	2.4	6.1	--	--	--	5000
JAN 16....	--	--	--	--	--	--	--	--	--	--
JAN 16....	.17	3.5	4.3	.15	4.5	8.1	--	--	--	5500
JAN 21....	.12	7.1	12.7	.33	2.5	9.6	--	--	--	--
FEB 12....	.26	2.5	5.7	.15	7.3	9.8	--	--	--	--
FEB 19....	--	--	--	--	--	--	--	--	--	--
FEB 19....	.07	8.3	10.4	.13	3.8	12	--	--	--	5500
FEB 27....	.12	3.8	8.3	.29	3.3	7.1	--	--	--	--
FEB 27....	.15	5.2	9.0	.35	3.6	8.8	--	--	--	--
FEB 27....	.15	4.0	5.0	.17	3.4	7.4	--	--	--	--
MAR 04....	.18	5.0	5.2	.13	4.8	9.8	--	--	--	33000
MAR 06....	.11	5.3	9.5	.20	3.9	9.2	--	--	--	39000
MAR 06....	.11	5.3	8.0	.16	5.5	11	--	--	--	--
MAR 11....	.13	4.3	3.9	.21	6.3	11	--	--	--	52000
MAR 11....	.13	7.5	5.8	.26	3.5	11	--	--	--	49000

APPENDIX A
 - POTOMAC RIVER AT QUANTICO, VA. ---Cont.

01558710

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	(00009)	(00077)	LIGHT DEPTH TO 10' OF SURFACE LIGHT (FEET)	(00034)	(00198)	LIGHT DEPTH TO 10' OF SURFACE LIGHT (FEET)	(00199)	LIGHT DEPTH TO 50' OF SURFACE LIGHT (FEET)	(00200)	OXYGEN DEMAND, BIOCHEM- ICAL OXYGEN DEMAND, IMNE- DATE (MG/L)	(00302)	OXYGEN DEMAND, CARBON, LAGTIME AT 20C (82135)
		(00003)	(00009)	(00077)	LIGHT DEPTH TO 10' OF SURFACE LIGHT (FEET)	(00034)	(00198)	LIGHT DEPTH TO 10' OF SURFACE LIGHT (FEET)	(00199)	LIGHT DEPTH TO 50' OF SURFACE LIGHT (FEET)	(00200)	OXYGEN DEMAND, BIOCHEM- ICAL OXYGEN DEMAND, IMNE- DATE (MG/L)	(00302)	OXYGEN DEMAND, CARBON, LAGTIME AT 20C (82135)	
MAR	1810	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	1100	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	1930	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	0700	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	0703	3.00	6000	12.0	---	---	---	---	---	---	---	---	---	---	---
	0630	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	1000	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	2000	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	1125	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	1310	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	1300	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	0907	3.00	6000	12.0	---	---	---	---	---	---	---	---	---	---	---
	0917	3.00	4500	9.0	---	---	---	---	---	---	---	---	---	---	---
	0922	3.00	2300	6.0	---	---	---	---	---	---	---	---	---	---	---
	0930	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	1135	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	3100	---	6000	---	---	---	---	---	---	---	---	---	---	---	---
	3100	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
APR	0702	3.00	6000	12.0	---	---	---	---	---	---	---	---	---	---	---
	0300	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	0710	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	0712	3.00	4500	12.0	---	---	---	---	---	---	---	---	---	---	---
	0723	3.00	2300	12.0	---	---	---	---	---	---	---	---	---	---	---
	0700	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	1000	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	0547	3.00	2300	16.0	---	---	---	---	---	---	---	---	---	---	---
	1000	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	0550	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	0602	3.00	4500	15.0	---	---	---	---	---	---	---	---	---	---	---
	1000	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	0607	3.00	6000	15.0	---	---	---	---	---	---	---	---	---	---	---
	1000	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	0845	3.00	6000	20.0	---	---	---	---	---	---	---	---	---	---	---
	1000	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	0852	3.00	4500	22.0	---	---	---	---	---	---	---	---	---	---	---
	1000	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	1500	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	1640	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	0950	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	1800	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	1250	1.00	4500	14.0	---	---	---	---	---	---	---	---	---	---	---
	1800	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	1301	1.00	6000	24.0	---	---	---	---	---	---	---	---	---	---	---
	1800	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	1310	1.00	2300	12.0	---	---	---	---	---	---	---	---	---	---	---
	1800	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	1637	3.00	2300	16.0	---	---	---	---	---	---	---	---	---	---	---
	2200	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	1652	---	50000	---	---	---	---	---	---	---	---	---	---	---	---
	2200	3.00	6000	19.0	---	---	---	---	---	---	---	---	---	---	---

APPENDIX A
 - POTOMAC RIVER AT QUANTICO, VA. ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON KI TO BASE F PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. LAGTIME AT 20C (82135)	DEOXYGE NATION VITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45' UM-WF (COLS./ 100 ML) (31616)	STREP- TOCOC CI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
MAR 11...	.12	2.2	3.4	.18	9.4	12	--	--	--	62000
17...	.12	4.9	9.3	.32	3.5	8.4	--	--	--	40000
17...	.14	5.0	7.5	.29	4.5	9.5	--	--	--	54000
18...	.13	8.0	9.9	.25	2.6	11	--	--	--	50000
18...	--	--	--	--	--	--	--	--	--	--
20...	.13	5.8	4.5	.27	2.5	8.3	--	--	--	41000
20...	.14	5.9	9.1	.28	4.1	10	--	--	--	38000
20...	.29	4.2	5.5	.28	3.5	7.8	--	--	--	35000
25...	.16	3.5	11.0	.50	2.6	6.1	--	--	--	12000
25...	.11	1.2	5.0	.16	5.5	6.8	--	--	--	16000
26...	.13	2.7	9.4	.13	4.0	6.7	--	--	--	12000
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	.11	3.4	--	.00	.00	3.4	--	--	--	13000
31...	.21	2.5	5.8	.47	2.7	3.8	--	--	--	18000
31...	.19	2.5	10.4	.28	2.6	5.1	--	--	--	--
31...	.11	2.7	7.0	.37	2.1	4.8	--	--	--	--
APR 03...	--	--	--	--	--	--	--	--	--	--
03...	.20	2.3	9.5	.20	2.7	5.0	--	--	--	11000
03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
07...	.15	3.3	7.3	.22	1.3	4.6	--	--	--	15000
10...	--	--	--	--	--	--	--	--	--	--
10...	.20	1.4	11.0	.16	3.0	4.4	--	--	--	19000
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
10...	.12	1.5	8.3	.11	3.5	5.2	--	--	--	17000
15...	.15	5.7	--	.00	.00	5.7	--	--	--	25000
18...	.14	3.1	9.8	.15	1.8	4.9	--	--	--	26000
18...	.07	4.3	6.5	.12	1.5	5.9	--	--	--	35000
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	.12	3.9	7.9	.26	1.1	5.0	--	--	--	42000
22...	--	--	--	--	--	--	--	--	--	--

APPENDIX A
 01658710 - POTOMAC RIVER AT QUANTICO, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SECTION (FT FM L BANK)	SAMPLE LOC- ATION, CROSS	TRANS- PAR- ENCY (SECCI DISK (IV)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)
		(00003)	(00009)	(00077)	(00034)	(0019A)	(00199)	(00200)	(00302)		
APR											
22...	1931	---	50000	---	---	---	---	---	---	.00	.00
29...	1040	---	50000	---	---	---	---	---	---	.00	.00
29...	1415	---	50000	---	---	---	---	---	---	.00	.00
MAY											
01...	0525	---	50000	---	---	---	---	---	---	.00	.00
05...	0917	3.00	2300	22.0	---	---	---	---	---	---	---
05...	0928	3.00	4500	22.0	---	---	---	---	---	---	---
05...	0937	3.00	6000	22.0	---	---	---	---	---	---	---
05...	1112	3.00	2300	25.0	---	---	---	---	---	---	---
05...	1120	---	50000	---	---	---	---	---	---	.00	.00
05...	1123	3.00	4500	23.0	---	---	---	---	---	---	---
05...	1137	3.00	6000	22.0	---	---	---	---	---	---	---
08...	0520	---	50000	---	---	---	---	---	---	.00	.00
13...	1000	3.00	2300	14.0	---	---	---	---	---	---	---
13...	1010	3.00	4500	16.0	---	---	---	---	---	---	---
13...	1020	---	50000	---	---	---	---	---	---	.00	.00
13...	1025	3.00	6000	13.0	---	---	---	---	---	---	---
13...	1310	3.00	6000	12.0	---	---	---	---	---	---	---
13...	1325	---	50000	---	---	---	---	---	---	.00	.00
13...	1326	3.00	4500	13.0	---	---	---	---	---	---	---
13...	1340	3.00	2300	16.0	---	---	---	---	---	---	---
19...	1441	3.00	2300	24.0	---	---	---	---	---	---	---
19...	1451	3.00	6000	24.0	---	---	---	---	---	---	---
19...	1455	---	50000	---	---	---	---	---	---	.00	.00
28...	1042	3.00	2300	18.0	---	---	---	---	---	---	---
28...	1050	---	50000	---	---	---	---	---	---	.00	.00
28...	1057	3.00	4500	16.0	---	---	---	---	---	---	---
28...	1102	3.00	6000	19.0	---	---	---	---	---	---	---
28...	1321	3.00	4500	22.0	---	---	---	---	---	---	---
30...	1615	3.00	2300	18.0	---	---	---	---	---	---	---
30...	1630	---	50000	---	---	---	---	---	---	.00	.00
30...	1631	3.00	4500	18.0	---	---	---	---	---	---	---
JUN											
02...	0710	3.00	6000	14.0	---	---	---	---	---	---	---
02...	0715	---	50000	---	---	---	---	---	---	.00	.00
02...	0721	3.00	4500	14.0	---	---	---	---	---	---	---
02...	0731	3.00	2300	17.0	---	---	---	---	---	---	---
02...	1021	3.00	2300	24.0	---	---	---	---	---	---	---
02...	1030	---	50000	---	---	---	---	---	---	.00	.00
02...	1032	3.00	4500	24.0	---	---	---	---	---	---	---

01658710 APPENDIX A - POTOMAC RIVER AT QUANTICO, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON KI TO BASE F PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULIT. CARBON-- ACEOUS (MS/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS, LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROS, ULIT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
APR 22....	.13	3.9	10.8	.41	1.7	5.6	--	--	--	37000
29....	.08	6.5	---	.00	.00	6.5	--	--	--	18000
29....	.14	4.2	5.4	.28	2.3	6.5	--	--	--	23000
MAY 01....	.15	2.5	5.8	.49	1.7	4.3	--	--	--	25000
05....	---	---	---	---	---	---	---	---	---	---
05....	---	---	---	---	---	---	---	---	---	---
05....	---	---	---	---	---	---	---	---	---	---
05....	.19	3.1	11.0	.38	1.7	4.8	--	--	--	29000
05....	---	---	---	---	---	---	---	---	---	---
05....	---	---	---	---	---	---	---	---	---	---
05....	.11	4.2	9.3	.44	1.4	5.6	--	--	--	28000
13....	---	---	---	---	---	---	---	---	---	---
13....	---	---	---	---	---	---	---	---	---	---
13....	.13	3.3	5.5	.14	1.8	5.6	--	--	--	32000
13....	---	---	---	---	---	---	---	---	---	---
13....	.22	3.7	7.1	.15	2.6	6.3	--	--	--	31000
13....	---	---	---	---	---	---	---	---	---	---
19....	---	---	---	---	---	---	---	---	---	---
19....	---	---	---	---	---	---	---	---	---	---
19....	.17	2.9	10.8	.27	.90	3.7	--	--	--	18000
28....	---	---	---	---	---	---	---	---	---	---
28....	.09	4.3	8.9	.29	1.7	6.0	--	--	--	12000
28....	---	---	---	---	---	---	---	---	---	---
28....	---	---	---	---	---	---	---	---	---	---
28....	---	---	---	---	---	---	---	---	---	---
30....	---	---	---	---	---	---	---	---	---	---
30....	.14	5.3	1.8	.20	3.0	8.3	--	--	--	---
30....	---	---	---	---	---	---	---	---	---	---
JUN 02....	---	---	---	---	---	---	---	---	---	---
02....	.16	3.9	5.2	.08	2.9	6.7	--	--	--	---
02....	---	---	---	---	---	---	---	---	---	---
02....	---	---	---	---	---	---	---	---	---	---
02....	---	---	---	---	---	---	---	---	---	---
02....	.12	6.1	3.0	.45	1.5	7.6	--	--	--	21000
02....	---	---	---	---	---	---	---	---	---	---
02....	---	---	---	---	---	---	---	---	---	---

01658710 APPENDIX A
 - POTOMAC RIVER AT QUANTICO, VA. --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (DISK IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM- ICAL (MG/L)
		(00003)	(00009)	(00077)	(00034)	(00198)	(00199)	(00200)	(00302)	(82135)
JUN 05...	1647	3.00	6000	16.0	--	--	--	--	--	--
05...	1656	3.00	4500	22.0	--	--	--	--	--	--
05...	1700	--	50000	--	--	--	--	--	0.00	0.00
05...	1711	3.00	2300	19.0	--	--	--	--	0.00	0.00
12...	1115	--	50000	--	--	--	--	--	--	--
12...	1117	3.00	2300	22.0	--	--	--	--	--	--
12...	1122	3.00	4500	18.0	--	--	--	--	--	--
12...	1127	3.00	6000	22.0	--	--	--	--	--	--
12...	1355	3.00	6000	24.0	--	--	--	--	--	--
12...	1400	--	50000	--	--	--	--	--	0.00	0.00
13...	1715	--	50000	--	--	--	--	--	0.00	0.00
17...	1115	3.00	2300	22.0	--	--	--	--	0.00	0.00
17...	1125	--	50000	--	--	--	--	--	--	--
17...	1126	3.00	6000	22.0	--	--	--	--	--	--
20...	1707	3.00	6000	22.0	--	--	--	--	--	--
20...	1710	--	50000	--	--	--	--	--	0.00	0.00
20...	1713	3.00	4500	24.0	--	--	--	--	--	--
20...	1717	3.00	2300	22.0	--	--	--	--	--	--
20...	1911	3.00	2300	22.0	--	--	--	--	--	--
20...	1917	3.00	4500	24.0	--	--	--	--	--	--
20...	1923	3.00	6000	18.0	--	--	--	--	--	--
20...	1930	--	50000	--	--	--	--	--	0.00	0.00
24...	1400	--	50000	--	--	--	--	--	0.00	0.00
24...	1404	3.00	4500	24.0	--	--	--	--	--	--
24...	1412	3.00	6000	28.0	--	--	--	--	--	--
24...	1630	3.00	2300	28.0	--	--	--	--	--	--
24...	1640	--	50000	--	--	--	--	--	0.00	0.00
24...	1650	3.00	4500	24.0	--	--	--	--	--	--
24...	1710	3.00	6000	20.0	--	--	--	--	--	--
27...	0710	--	50000	--	--	--	--	--	0.00	0.00
27...	0713	3.00	2300	25.0	--	--	--	--	--	--
27...	0722	3.00	4500	23.0	--	--	--	--	--	--
27...	0732	3.00	6000	20.0	--	--	--	--	--	--
JUL 04...	0812	3.00	6000	23.0	--	--	--	--	--	--
04...	0815	--	50000	--	--	--	--	--	0.00	0.00
04...	0824	3.00	4500	24.0	--	--	--	--	--	--
04...	0835	3.00	2300	24.0	--	--	--	--	--	--
07...	0638	3.00	2300	20.0	--	--	--	--	--	--
07...	0650	--	50000	--	--	--	--	--	0.00	0.00

APPENDIX A

01558710 - POTOMAC RIVER AT QUANTICO, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARRON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS. LAGTIME AT 20C (82135)	DEOXYGE NATION NITROS. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROS. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GEVA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCJCCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUN 05...										
JUN 05...	.19	3.3	2.0	.44	4.0	7.3				
JUN 05...	.17	3.7	9.5	.26	6.5	10				
JUN 12...										
JUN 12...										
JUN 12...										
JUN 12...										
JUN 12...	.16	4.2		.00	.00	4.2				
JUN 13...	.10	5.5	12.4	.56	11	16				
JUN 17...	.17	3.4	4.5	.09	6.7	10				
JUN 17...										
JUN 20...	.07	11	5.9	.23	19	31				
JUN 20...										
JUN 20...										
JUN 20...										
JUN 20...										
JUN 20...										
JUN 20...										
JUN 20...	.13	8.5	3.7	.08	24	33				
JUN 24...	.12	8.4	3.1	.30	12	21				
JUN 24...										
JUN 24...										
JUN 24...	.10	7.5	3.0	.43	7.4	15				
JUN 24...										
JUN 24...										
JUN 27...	.13	4.5	9.3	.15	2.0	6.5				
JUN 27...										
JUN 27...										
JUN 27...										
JUN 27...										
JUN 27...										
JUL 04...										
JUL 04...	.20	4.0	7.3	.34	2.1	6.1				
JUL 04...										
JUL 04...										
JUL 07...										
JUL 07...	.12	6.3	3.1	.22	5.4	12				

APPENDIX A
 - POTOMAC RIVER AT QUANTICO, VA. --Cont.

01658710

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLING DEPTH (FEET)	SAMPLE LOCATION	TRANS-PAR-ENCY (SECTI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400-700NM	OXYGEN DEMAND, IMMEDIATE (MG/L)	OXYGEN DEMAND, (82135)	OXYGEN DEMAND, BIOCHEM. CARBON. DAYS LAGTIME AT 20C (82135)
JUL											
	0653	3.00	4500	19.0	--	--	--	--	--	--	--
	0704	3.00	6000	19.0	--	--	--	--	--	--	--
	0720	--	50000	--	--	--	--	--	0	--	0.00
	0732	3.00	2300	23.0	--	--	--	--	--	--	--
	0747	3.00	6000	19.0	--	--	--	--	--	--	--
	0757	3.00	4500	20.0	--	--	--	--	--	--	--
	1451	3.00	2300	24.0	--	--	--	--	--	--	--
	1500	---	50000	---	--	--	--	--	0	--	0.00
	1507	3.00	2300	24.0	--	--	--	--	--	--	--
	1500	---	50000	---	--	--	--	--	0	--	0.00
	1511	3.00	4500	24.0	--	--	--	--	--	--	--
	1513	3.00	6000	17.0	--	--	--	--	--	--	--
	1522	1.00	2300	18.0	--	--	--	--	--	--	--
	0742	1.00	4500	21.0	--	--	--	--	--	--	--
	0752	---	50000	---	--	--	--	--	0	--	0.00
	0755	1.00	6000	18.0	--	--	--	--	--	--	--
	0802	---	50000	---	--	--	--	--	0	--	0.00
	1810	---	50000	---	--	--	--	--	0	--	0.00
	0612	3.00	6000	24.0	--	--	--	--	--	--	--
	0650	---	50000	---	--	--	--	--	0	--	0.00
	0657	3.00	2300	24.0	--	--	--	--	--	--	--
	1300	---	50000	---	--	--	--	--	0	--	0.00
	1047	1.00	2300	20.0	--	--	--	--	--	--	--
	1100	---	50000	---	--	--	--	--	0	--	0.00
	1104	1.00	4500	20.0	--	--	--	--	--	--	--
	1113	1.00	6000	22.0	--	--	--	--	--	--	--
	1105	3.00	6000	18.0	--	--	--	--	--	--	--
	1110	3.00	50000	---	--	--	--	--	0	--	0.00
	1114	3.00	2300	24.0	--	--	--	--	--	--	--
	1120	26.0	50000	---	--	--	--	--	0	--	0.00
AUG											
	0600	---	50000	---	--	--	--	--	0	--	0.00
	1029	1.00	2300	22.0	--	--	--	--	--	--	--
	0600	1.00	4500	22.0	6.90	--	1400	--	--	--	--
	0600	1.00	6000	24.0	7.90	--	1200	--	--	--	--
	1100	---	50000	---	--	--	--	--	0	--	0.00
	1114	3.00	6000	19.0	--	--	--	--	--	--	--
	1122	3.00	4500	19.0	--	--	--	--	--	--	--
	1134	3.00	2300	20.0	--	--	--	--	--	--	--
	1300	1.00	2300	20.0	5.50	--	600	--	--	--	--
	1028	1.00	4500	23.0	5.50	--	1100	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS, LAGTIME AT 20C (82136)	DEOXYGE NATION NITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GEVA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUL 07...	--	--	--	--	--	--	--	--	--	--
JUL 07...	--	--	--	--	--	--	--	--	--	--
JUL 09...	.12	6.3	2.3	.07	7.4	14	--	--	--	--
JUL 09...	--	--	--	--	--	--	--	--	--	--
JUL 09...	--	--	--	--	--	--	--	--	--	--
JUL 10...	--	--	--	--	--	--	--	--	--	--
JUL 10...	.13	5.9	1.3	.08	2.0	7.9	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--
JUL 15...	.13	4.5	5.0	.07	4.2	8.7	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--
JUL 16...	--	--	--	--	--	--	--	--	--	--
JUL 16...	--	--	--	--	--	--	--	--	--	--
JUL 16...	.13	6.3	2.0	.13	3.6	9.9	--	--	--	--
JUL 16...	.17	8.0	6.0	.24	1.8	9.8	--	--	--	--
JUL 22...	--	--	--	--	--	--	--	--	--	--
JUL 22...	.20	5.9	2.0	.20	3.5	9.4	--	--	--	19000
JUL 22...	--	--	--	--	--	--	--	--	--	--
JUL 29...	.23	5.0	5.0	.43	4.4	9.4	--	--	--	--
JUL 30...	--	--	--	--	--	--	--	--	--	--
JUL 30...	.08	8.0	9.5	.24	1.9	9.9	--	--	--	41000
JUL 30...	--	--	--	--	--	--	--	--	--	--
JUL 30...	--	--	--	--	--	--	--	--	--	--
JUL 31...	--	--	--	--	--	--	--	--	--	--
JUL 31...	.09	9.0	4.5	.49	.50	9.4	--	--	--	--
JUL 31...	--	--	--	--	--	--	--	--	--	--
JUL 31...	.10	7.9	--	.00	.00	7.8	--	--	--	--
AUG 06...	.20	5.3	15.0	.49	1.2	7.0	--	--	--	47000
AUG 06...	--	--	--	--	--	--	--	--	--	--
AUG 06...	--	--	--	--	--	--	--	--	--	--
AUG 06...	--	--	--	--	--	--	--	--	--	--
AUG 11...	.15	9.3	6.2	.06	4.5	14	--	--	--	--
AUG 11...	--	--	--	--	--	--	--	--	--	--
AUG 11...	--	--	--	--	--	--	--	--	--	--
AUG 11...	--	--	--	--	--	--	--	--	--	--
AUG 13...	--	--	--	--	--	--	--	--	--	--
AUG 13...	--	--	--	--	--	--	--	--	--	--

APPENDIX A
 01658710 - POTOMAC RIVER AT QUANTICO, VA. ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION CROSS SECTION (FIT F4 L BANK)	TRANS- PAR- ENCY (SECCHI DISK (IN))	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTEVS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)
		(00003)	(00009)	(00077)	(00034)	(00198)	(00199)	(00200)	(00302)	
AUG										
13...	1040	---	50000	---	---	---	---	---	.0	.00
13...	1045	1.00	6000	20.0	7.00	---	1.700	600	---	---
19...	0942	3.00	2300	37.0	4.70	---	---	340	---	---
19...	0950	3.00	6000	25.0	5.90	---	---	60.0	.0	.00
19...	0955	27.0	6000	---	---	---	---	---	.0	.00
19...	1010	---	50000	---	---	---	---	---	.0	.00
20...	1912	1.00	2300	16.0	5.40	---	1.100	18.0	---	---
20...	1922	1.00	4500	23.0	8.20	---	.900	8.20	---	---
20...	1932	1.00	6000	16.0	5.80	---	.800	6.70	---	---
20...	1935	---	50000	---	---	---	---	---	.0	.00
25...	2145	---	50000	---	---	---	---	---	.0	.00
28...	1629	1.00	2300	18.0	6.00	---	.500	650	---	---
28...	1630	---	50000	---	---	---	---	---	.0	.00
28...	1639	1.00	4500	14.0	7.00	---	.500	750	---	---
28...	1548	1.00	6000	18.0	5.90	---	.500	610	---	---
SEP										
03...	2145	---	50000	---	---	---	---	---	.0	.00
04...	0742	3.00	6000	20.0	---	---	---	---	---	---
04...	0750	---	50000	---	---	---	---	---	.0	.00
04...	0753	3.00	4500	24.0	---	---	---	---	---	---
04...	0802	3.00	2300	22.0	---	---	---	---	---	---
08...	1007	3.00	2300	18.0	---	---	---	---	---	---
08...	1012	3.00	4500	23.0	---	---	---	---	---	---
08...	1022	3.00	6000	23.0	---	---	---	---	---	---
08...	1030	---	50000	---	---	---	---	---	.0	.00
11...	1822	3.00	2300	16.0	---	---	---	---	---	---
11...	1830	---	50000	---	---	---	---	---	.0	.00
11...	1833	3.00	4500	13.0	---	---	---	---	---	---
11...	1838	3.00	6000	16.0	---	---	---	---	---	---
15...	1945	---	50000	---	---	---	---	---	---	---
16...	1800	3.00	6000	26.0	---	---	1.000	70.0	.0	.00
17...	1725	3.00	6000	30.0	7.00	---	---	130	.0	.00
17...	1730	27.0	6000	---	---	---	---	---	.0	.00
22...	1015	---	50000	---	---	---	---	---	.0	.00

APPENDIX A

01658710 - POTOMAC RIVER AT QUANTICO, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM. ULT. CARBON-ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM. NITROS. DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM. NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM. UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI, FECALI, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
AUG 13...	.14	6.3	3.1	.10	3.8	10	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	.14	5.9	1.4	.07	3.3	9.2	--	--	--	--
19...	.16	5.4	1.1	.06	5.7	11	--	--	--	--
19...	.11	6.1	1.9	.21	2.6	8.7	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	.14	5.9	2.4	.07	4.5	10	--	--	--	25000
25...	.17	5.7	12.0	.15	2.5	8.2	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	.14	7.2	13.0	.60	1.8	9.0	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
SEP 03...	.18	5.5	2.7	.10	3.9	9.5	--	--	--	41000
04...	--	--	--	--	--	--	--	--	--	--
04...	.17	5.0	10.0	.08	5.9	11	--	--	--	43000
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	.11	3.7	3.4	.03	7.5	11	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	.15	4.9	2.3	.28	1.6	6.4	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
15...	.08	5.4	2.9	.23	2.3	7.8	--	--	--	30000
16...	.13	6.9	13.0	--	2.0	8.9	--	--	--	--
17...	.19	6.3	13.0	--	2.0	8.3	--	--	--	--
17...	.12	3.5	9.0	.10	3.1	6.7	--	--	--	--
22...	.14	6.1	11.0	.12	2.4	8.5	--	--	--	46000

APPENDIX A
 01658710 - POTOMAC RIVER AT QUANTICO, VA. ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	TRANS- PAR- ENCY (SECHI DISK IN)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	(00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L)	(00302)
OCT																		
02...	1850	---	5000			---		---		---		---		---		0.00	---	---
03...	0728	1.00	6000			23.0		---		---		---		---		---	---	---
03...	0732	1.00	4500			22.0		---		---		---		---		---	---	---
09...	1404	3.00	6900			16.0		---		---		---		---		---	---	---
09...	1415	---	6900			---		---		---		---		---		0.00	---	---
16...	0940	3.00	6000			---		---		---		---		---		0.00	---	---
16...	0950	26.0	6000			---		---		---		---		---		0.00	---	---
21...	1338	1.00	6000			24.0		---	2.900	---	1.500	---	920	---	---	0.00	---	---
21...	1350	3.00	6000			---		---	---	---	---	---	---	---		0.00	---	---
21...	1400	29.0	6000			---		---	---	---	---	---	---	---		0.00	---	---
30...	1600	3.00	6000			23.0		---	---	---	---	---	---	---		0.00	---	---
NOV																		
04...	0945	3.00	5000			---		---		---		---		---		0.00	---	---
04...	0950	25.0	5000			---		---		---		---		---		0.00	---	---
04...	1030	3.00	6000			---		---		---		---		---		0.00	---	---
04...	1045	27.0	6000			---		---		---		---		---		0.00	---	---
10...	1200	3.00	6000			30.0		---		---		---		---		0.00	---	---
10...	1205	27.0	6000			---		---		---		---		---		0.00	---	---
12...	1900	3.00	6000			---		---		---		---		---		0.00	---	---
12...	1905	26.0	6000			---		---		---		---		---		0.00	---	---
13...	0715	3.00	6000			38.0		---		---		---		---		0.00	---	---
13...	0720	27.0	6000			---		---		---		---		---		0.00	---	---
18...	0920	3.00	6000			36.0		11.0	---	---	---	---	700	---	---	0.00	---	---
18...	0925	27.0	6000			---		---	---	---	---	---	---	---		0.00	---	---
25...	1140	2.00	6000			23.0		---	---	---	---	---	---	---		0.00	---	---
25...	1145	27.0	6000			---		---	---	---	---	---	---	---		0.00	---	---
DEC																		
02...	1200	27.0	6000			---		---		---		---		---		0.00	---	---
02...	1210	3.00	6000			36.0		---		---		---		---		0.00	---	---
08...	1010	3.00	6000			40.0		---		---		---		---		0.00	---	---
08...	1015	27.0	6000			---		---		---		---		---		0.00	---	---
16...	0900	3.00	6000			---		---		---		---		---		0.00	---	---
16...	0905	27.0	6000			---		---		---		---		---		0.00	---	---
16...	1019	1.00	6000			29.0		---		---		---		---		0.00	---	---
29...	1215	3.00	6900			35.0		---		---		---		---		0.00	---	---
29...	1230	29.0	6900			---		---		---		---		---		0.00	---	---
JAN																		
15...	1110	3.00	6900			56.0		---		---		---		---		0.00	---	---
15...	1120	24.0	6900			---		---		---		---		---		0.00	---	---
23...	1850	24.0	6900			---		---		---		---		---		0.00	---	---

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARBON KI TO	OXYGEN DEMAND, BIOCHEM ULT.	OXYGEN NITROG. KI TO	DEOXYGE NATION NITROG. KI TO	OXYGEN DEMAND, BIOCHEM NITROG. ULT.	OXYGEN DEMAND, BIOCHEM NITROG. ULT.	OXYGEN DEMAND, BIOCHEM NITROG. ULT.	DEOXY- GENA- TION CON- STANT KI TO	COLI- FORM, FECAL, 0.45, UM-WF (COLS./ 100 ML)	STREP- TOCOCI FECAL, KF AGAR (COLS. PER 100 ML)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)
	(82133)	(00320)	(82135)	(82132)	(00321)	(00319)	(00325)	(31616)	(31673)	(60050)	
OCT											
02...	.16	3.7	1.0	.16	1.0	4.7	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	.16	4.5	3.0	.16	2.3	6.9	--	--	--	--	--
16...	.17	4.8	.00	.11	1.0	5.8	--	--	--	--	--
16...	.14	4.0	5.1	.81	2.3	6.3	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	.17	3.9	8.0	.16	1.3	5.2	--	--	--	22000	--
21...	.10	5.4	1.0	.08	1.2	6.6	--	--	--	23000	--
30...	.10	3.9	3.4	.72	.28	4.2	--	--	--	--	--
NOV											
04...	.12	3.9	--	.00	.00	3.9	--	--	--	--	--
04...	.11	3.8	.90	.40	.80	4.6	--	--	--	--	--
04...	.12	3.3	11.0	.20	1.3	4.6	--	--	--	--	--
10...	.08	3.7	8.2	.15	.60	4.2	--	--	--	--	--
10...	.07	4.1	11.0	.05	1.1	4.8	--	--	--	--	--
12...	.08	3.1	3.9	.12	1.0	5.1	--	--	--	--	--
12...	.10	3.1	1.2	1.0	.50	3.6	--	--	--	--	--
13...	.09	3.1	2.0	.26	.30	4.0	--	--	--	--	--
13...	.10	2.4	2.0	.25	.60	3.7	--	--	--	--	--
18...	--	--	--	.00	.00	2.4	--	--	--	--	--
18...	.10	3.5	--	.00	.00	3.9	.10	--	--	3100	--
25...	.08	2.7	13.0	.00	.50	3.5	--	--	--	5300	--
25...	.10	2.7	12.0	.29	.80	3.2	--	--	--	--	--
DEC											
02...	.10	2.5	7.5	.15	1.0	3.5	--	--	--	--	--
07...	.07	4.0	5.5	.12	1.5	5.5	--	--	--	--	--
08...	.15	5.1	7.0	.33	.70	5.8	--	--	--	--	--
08...	.12	3.9	5.1	.19	1.3	5.2	--	--	--	--	--
16...	.11	3.5	9.1	.59	.40	4.0	--	--	--	8200	--
16...	.13	2.9	4.0	.05	1.7	4.7	--	--	--	11000	--
16...	--	--	--	--	--	--	--	--	--	--	--
29...	.15	3.5	--	.00	.00	3.5	--	--	--	--	--
29...	.10	3.4	--	--	--	--	--	--	--	--	--
JAN											
15...	.13	3.0	--	.00	.00	3.0	--	--	--	--	--
15...	.20	2.2	9.3	.20	1.0	3.1	--	--	--	--	--
23...	.13	4.1	.00	.80	.43	4.5	--	--	--	--	--

APPENDIX A
 - POTOMAC RIVER AT QUANTICO, VA. --Cont.

01658710

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	(000003)	SAMPLE LOC- ATION, CRSS SECTION (FIT FM L BANK)	(000009)	TRANS- PAR- ENCY (SECHI DISK) (IV)	(00077)	LIGHT DEPTH TO 1%	SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 10%	SURFACE LIGHT (FEET)	(00198)	LIGHT DEPTH TO 50%	SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, IMME- DIATE (MG/L)	(00302)	OXYGEN DEMAND, CARBON. DAYS LAGTIME AT 20C (82135)	
JAN																						
	23...	3.00		6900																		.00
	29...	3.00		6000		58.0																.00
	29...	25.0		6000																		.00
FER																						
	04...	2.00		6000		38.0		13.0									200					.00
	1255	30.0		6000																		.00
	1650	26.0		6000																		.00
	1655	2.00		6000																		.00
	0927	2.00		6000		30.0																.00
	17...	3.00		6000																		.00
	0930	3.00		6000																		.00
	17...	25.0		6000																		.00
	17...	2.00		6000		24.0																.00
	1615	3.00		6000		19.0																.00
	1625	26.0		6000																		.00
	23...	27.0		6000																		.00
	24...	3.00		6000																		.00
	24...	3.00		6000																		.00
	24...	3.00		6000		12.0																.00
	25...	2.00		6000																		.00
	25...	25.0		6000																		.00
	25...	3.00		6000																		.00
	27...	3.00		6000																		.00
	27...	28.0		6000																		.00
MAR																						
	03...			6000																		.00
	0700			6000																		.00
	0706	2.00		6000		12.0																.00
	1413	3.00		6000		6.0																.00
	1415			6000																		.00
	0855	2.00		6000		6.0																.00
	18...			6000																		.00
	0900			6000																		.00
	1319	2.00		6000		12.0																.00
	24...			6000																		.00
APR																						
	01...			6000																		.00
	1403	3.00		6000		18.0																.00
	09...			6000																		.00
	1315			6000																		.00
	09...	3.00		6000		18.0																.00
	1320	3.00		6000		6.0																.00
	0957	3.00		6000																		.00
	15...			6000																		.00
	1050			6000																		.00
	1058	2.00		6000		6.0		2.50									1600					.00
	15...			6000																		.00
	16...			6000																		.00

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARRON- ACEOUS (00320)	OXYGEN DEMAND, BIOCHEM NITROS, NITROS, LAGTIME AT 20C (92135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (92132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. NITROG. JLT. (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (00319)	DEOXY- SEVA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JAN										
23...	.08	3.3	2.1	.44	.34	3.6	--	--	--	--
29...	.11	2.9	4.0	.50	.40	3.2	--	--	--	--
29...	.09	3.0	--	.00	.00	3.0	--	--	--	--
FFR										
04...	.11	4.8	1.0	.50	.50	5.3	--	--	--	13000
04...	.11	4.3	--	--	--	--	--	--	--	9600
11...	.12	4.5	.00	.40	.50	5.1	--	--	--	--
11...	.07	5.4	.00	.50	.50	6.0	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	.10	4.1	15.0	--	3.8	7.9	--	--	--	--
17...	.11	3.9	.00	.18	1.1	5.0	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
23...	.08	5.3	8.4	.26	4.4	9.8	--	--	--	--
23...	.11	4.5	8.1	.17	6.4	11	--	--	--	8400
24...	.13	5.1	8.1	.43	3.0	8.1	--	--	--	--
24...	.13	5.1	12.0	.34	4.2	9.3	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
25...	.12	4.9	4.3	.19	4.1	9.0	--	--	--	--
25...	.12	4.9	2.4	.13	4.2	9.0	--	--	--	--
27...	.08	5.0	11.5	--	1.9	6.9	--	--	--	--
27...	.10	4.2	12.0	.00	2.6	6.9	--	--	--	--
MAR										
03...	.07	4.7	5.0	.19	3.4	8.0	--	--	--	--
04...	.16	4.0	9.5	.21	2.5	6.5	--	--	--	<3700
04...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	.08	3.0	5.8	.12	3.1	6.1	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
18...	.09	2.5	5.7	.23	2.2	4.8	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	.17	1.5	.00	.12	.53	2.3	--	--	--	--
APR										
01...	.12	2.4	11.4	.33	2.5	4.9	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
09...	.11	2.3	4.8	.10	3.5	5.9	--	--	--	6300
09...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	.12	2.2	2.7	.17	3.2	5.3	--	--	--	4100
15...	--	--	--	--	--	--	--	--	--	--
16...	.14	3.0	1.5	.08	4.8	7.9	--	--	--	--

APPENDIX A
 - POTOMAC RIVER AT QJANTICO, VA. --Cont.

01558710 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (SECCI DISK (IV)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, INVE- DIATE (MG/L) (00302)
APR 17...	0917	3.00	6000	12.0	--	--	--	--	--	--
22...	1300	--	6000	--	--	--	--	--	.00	.0
22...	1309	3.00	6000	12.0	--	--	--	--	--	--
29...	1253	2.00	6000	16.0	--	--	--	--	--	--
29...	1300	--	6000	--	--	--	--	--	.00	.0
MAY 04...	0930	3.00	6000	10.0	--	--	--	--	--	--
04...	0935	--	6000	--	--	--	--	--	.00	.0
12...	1458	2.00	6000	22.0	--	--	--	--	--	--
15...	1500	--	6000	--	--	--	--	--	.00	.0
19...	1114	2.00	6000	12.0	3.10	--	165	--	--	--
19...	1120	--	6000	--	--	--	--	--	.00	.0
27...	1555	3.00	6000	20.0	--	--	--	--	--	--
28...	1253	2.00	6000	19.0	--	--	--	--	--	--
28...	1300	--	6000	--	--	--	--	--	.00	.0
JUN 01...	1700	--	6000	--	--	--	--	--	.00	.0
11...	1720	--	6000	--	--	--	--	--	.00	.0
15...	1000	--	6000	--	--	--	--	--	.00	.0
15...	1011	2.00	6000	19.0	--	--	--	--	--	--
24...	1010	--	6000	--	--	--	--	--	.00	.0
30...	1415	--	6900	--	--	--	--	--	.00	.0
30...	1424	2.00	6000	18.0	4.00	--	1100	--	--	--
JUL 08...	1519	2.00	6000	19.0	7.00	--	500	--	--	--
08...	1520	--	50000	--	--	--	2,000	--	.00	.0
08...	1549	2.00	2300	17.0	6.60	--	1,700	1050	--	--
15...	1455	--	6000	--	--	--	--	--	.00	.0
15...	1500	2.00	6000	24.0	6.00	--	--	2000	--	--
20...	1027	1.00	2300	20.0	--	--	--	--	--	--
20...	1030	--	50000	--	--	--	--	--	.00	.0
20...	1039	1.00	6000	23.0	--	--	--	--	--	--
20...	2100	--	50000	--	--	--	--	--	.00	.0
21...	0654	1.00	6000	22.0	--	--	--	--	--	--
21...	0707	1.00	2300	20.0	--	--	--	--	--	--
21...	0710	--	50000	--	--	--	--	--	.00	.0
21...	2030	--	50000	--	--	--	--	--	.00	.0
22...	1010	--	50000	--	--	--	--	--	.00	.0
22...	1019	1.00	6000	18.0	--	--	--	--	.00	.0
28...	0845	--	6000	--	--	--	--	--	--	.0

APPENDIX A
 01556710 - POTOMAC RIVER AT QUANTICO, VA. ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITRO3, JAYS LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITRO3, JLT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	JEOKY- SENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31616)	STREP- TOCCCCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
APR 17....	..	2.5	1.1	..	..	..	..	..	..	..
22....	.13	..	..	.11	2.9	5.4	..	..	..	8400
29....	..	..	..	..	..	..	..	..	..	..
29....	.09	2.3	2.5	.11	2.5	4.8	..	..	..	..
MAY 04....	..	..	..	..	..	..	..	..	..	..
04....	.12	2.7	10.4	.13	1.8	4.5	..	..	..	..
12....	..	..	..	..	..	..	..	..	..	..
12....	.11	3.5	3.0	.11	3.0	6.6	..	..	..	..
19....	..	..	..	..	..	..	..	..	..	..
19....	.09	6.1	2.9	.18	1.8	8.0	..	..	..	43000
27....	..	..	..	..	..	..	..	..	..	..
28....	.13	5.3	6.9	.20	2.1	7.4	..	..	..	42000
JUN 01....	.09	4.2	4.0	.12	1.7	5.9	..	..	..	..
11....	.11	3.4	3.2	.13	2.4	5.9	..	..	..	..
15....	.15	4.5	5.0	.05	3.0	7.6	..	..	..	..
15....	..	..	..	..	..	..	..	..	..	..
24....	.12	4.4	4.7	.32	1.3	5.7	..	..	..	..
30....	.14	7.5	5.5	.08	3.3	11	..	..	..	457000
30....	..	..	..	..	..	..	..	..	..	..
JUL 08....	..	..	..	..	..	..	..	..	..	..
08....	.11	5.2	3.0	.23	.63	5.8	..	..	..	19000
08....	..	..	..	..	..	..	..	..	..	..
15....	.12	6.0	6.7	.34	1.9	7.9	..	..	..	..
15....	..	..	..	..	..	..	..	..	..	..
20....	..	..	..	..	..	..	..	..	..	..
20....	.11	5.2	..	.00	.00	5.2	..	..	..	25000
20....	..	..	..	..	..	..	..	..	..	..
20....	.13	5.9	8.0	.06	2.8	8.7	..	..	..	16000
21....	..	..	..	..	..	..	..	..	..	..
21....	..	..	..	..	..	..	..	..	..	..
21....	.13	5.0	14.0	..	2.2	7.1	..	..	..	12000
21....	.12	6.5	2.0	.20	1.2	7.7	..	..	..	21000
22....	.14	5.4	9.6	.15	2.8	8.2	..	..	..	11000
22....	..	..	..	..	..	..	..	..	..	..
28....	.07	5.0	1.9	.10	1.7	6.7	..	..	..	23000

APPENDIX A
 - POTOMAC RIVER AT QUANTICO, VA. --Cont.

01658710

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LDC- ATION, CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (SECCHI DISK (IN))	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID, 400- 700NM INTENS. (U-EINS (SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMYE- DIATE (MG/L) (00302)
JUL 28...	0951	1.60	6000	22.0	5.50	--	--	600	--	--
AUG 06...	1754	1.00	6000	21.0	--	--	--	--	--	--
06...	1800	--	50000	--	--	--	--	--	--	.00
06...	1808	1.00	2300	19.0	--	--	--	--	--	.00
17...	1745	--	6000	--	--	--	--	--	--	--
17...	1751	1.60	6000	23.0	--	--	--	--	--	--
18...	0854	1.60	6000	17.0	--	--	--	--	--	.00
18...	0900	--	6900	--	--	--	--	--	--	--
18...	0904	1.60	2300	25.0	--	--	--	--	--	.00
24...	2230	--	50000	--	--	--	--	--	--	.00
25...	1022	1.00	2300	14.0	5.00	--	.700	1200	--	--
25...	1033	1.00	6000	23.0	5.10	--	.700	1350	--	--
25...	1045	--	50000	--	--	2.700	--	70.0	--	.00
25...	1758	1.00	2300	18.0	--	--	.750	--	--	.00
25...	1800	--	50000	--	--	--	--	--	--	--
25...	1814	1.00	6000	--	4.50	--	.580	120	--	--
26...	1034	1.00	2300	17.0	4.50	--	.580	1200	--	--
26...	1049	1.00	6000	16.0	5.10	--	.580	1250	--	--
26...	1100	--	50000	--	--	--	--	--	--	.00
26...	1724	1.00	6000	15.0	4.50	--	.750	450	--	--
26...	1730	--	50000	--	--	--	--	--	--	.00
26...	1739	1.00	2300	22.0	4.80	--	.500	690	--	--
SEP 03...	0845	--	6000	--	--	--	--	--	--	.00
03...	0850	1.00	6000	24.0	--	--	--	--	--	--
10...	1025	--	6000	--	--	--	--	--	--	.00
10...	1035	1.60	6000	23.0	--	--	--	--	--	--
16...	0714	2.00	6000	14.0	--	--	--	--	--	--
16...	0715	--	6000	--	--	--	--	--	--	.00
21...	1759	1.60	6000	14.0	--	--	--	--	--	--
21...	1800	3.00	6000	--	--	--	--	--	--	.00
21...	1805	26.0	6000	--	--	--	--	--	--	.00
22...	0705	26.0	6000	--	--	--	--	--	--	.00
22...	0710	3.00	6000	--	--	--	--	--	--	.00
22...	0711	1.60	6000	12.0	--	--	--	--	--	--

01659710 - APPENDIX A - POTOMAC RIVER AT QUANTICO, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUL 28...	--	--	--	--	--	--	--	--	--	--
AUG 06...	--	4.9	.00	.13	2.1	7.0	--	--	--	32000
06...	--	4.7	11.0	.25	2.7	7.4	--	--	--	>12000
17...	--	4.1	--	.00	.00	4.1	--	--	--	>7400
18...	--	4.9	--	.00	.00	4.8	--	--	--	>27000
25...	--	3.5	10.0	.05	2.9	6.5	--	--	--	>23000
25...	--	4.1	1.2	.09	2.9	7.0	--	--	--	>19000
26...	--	5.0	--	.00	.00	5.0	--	--	--	>22000
26...	--	6.3	--	.00	.00	6.3	--	--	--	>20000
26...	--	3.3	5.0	.11	2.1	5.4	--	--	--	--
03...	--	3.2	--	--	--	--	--	--	--	--
10...	--	3.4	--	.62	.80	4.1	--	--	--	--
16...	--	3.0	4.0	.08	3.4	6.4	--	--	--	>9000
21...	--	2.9	1.8	.10	2.5	5.4	--	--	--	>4800
22...	--	3.0	2.9	.08	2.5	5.4	--	--	--	>6500
22...	--	4.4	--	.00	.00	4.4	--	--	--	>10000
22...	--	--	--	--	--	--	--	--	--	--

382640077159900 - POTOMAC RIVER AT DOUGLAS POINT
APPENDIX A

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAMPLE LOCATION	SAMPLING DEPTH (FEET)	TRANS-PAR-ENCY	LIGHT DEPTH TO 1%	LIGHT DEPTH TO 10%	LIGHT DEPTH TO 50%	LIGHT INCID.	OXYGEN DEMAND, BIOCHEM. CARBON, OXYGEN DEMAND, IMME-DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM. CARBON, OXYGEN DEMAND, IMME-DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM. CARBON, OXYGEN DEMAND, IMME-DIATE (MG/L)
AUG 01...	1749	2700	1.60	24.0	--	--	--	--	--	--	--
AUG 02...	1154	2700	1.60	30.0	--	--	--	--	--	--	--
AUG 02...	1242	11700	1.60	26.0	--	--	--	--	--	--	--
AUG 02...	1312	7200	1.60	25.0	--	--	--	--	--	--	--
SEP 13...	1335	2700	3.00	18.0	--	--	--	--	0	0	0
SEP 13...	1345	11700	3.00	20.0	--	--	--	--	--	--	--

DATE	TIME	SAMPLE LOCATION	SAMPLING DEPTH (FEET)	TRANS-PAR-ENCY	LIGHT DEPTH TO 1%	LIGHT DEPTH TO 10%	LIGHT DEPTH TO 50%	LIGHT INCID.	OXYGEN DEMAND, BIOCHEM. CARBON, OXYGEN DEMAND, IMME-DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM. CARBON, OXYGEN DEMAND, IMME-DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM. CARBON, OXYGEN DEMAND, IMME-DIATE (MG/L)
AUG 01...	1749	2700	1.60	24.0	--	--	--	--	--	--	--
AUG 02...	1154	2700	1.60	30.0	--	--	--	--	--	--	--
AUG 02...	1242	11700	1.60	26.0	--	--	--	--	--	--	--
AUG 02...	1312	7200	1.60	25.0	--	--	--	--	--	--	--
SEP 13...	1335	2700	3.00	18.0	--	--	--	--	0	0	0
SEP 13...	1345	11700	3.00	20.0	--	--	--	--	--	--	--

DATE	TIME	SAMPLE LOCATION	SAMPLING DEPTH (FEET)	TRANS-PAR-ENCY	LIGHT DEPTH TO 1%	LIGHT DEPTH TO 10%	LIGHT DEPTH TO 50%	LIGHT INCID.	OXYGEN DEMAND, BIOCHEM. CARBON, OXYGEN DEMAND, IMME-DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM. CARBON, OXYGEN DEMAND, IMME-DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM. CARBON, OXYGEN DEMAND, IMME-DIATE (MG/L)
AUG 01...	1749	2700	1.60	24.0	--	--	--	--	--	--	--
AUG 02...	1154	2700	1.60	30.0	--	--	--	--	--	--	--
AUG 02...	1242	11700	1.60	26.0	--	--	--	--	--	--	--
AUG 02...	1312	7200	1.60	25.0	--	--	--	--	--	--	--
SEP 13...	1335	2700	3.00	18.0	--	--	--	--	0	0	0
SEP 13...	1345	11700	3.00	20.0	--	--	--	--	--	--	--

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980									
DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (SECHI DISK) (IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/SS)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (02135)
		(00003)	(00009)	(00077)	(00034)	(00198)	(00199)	(00200)	(00302)
OCT									
06...	1241	1.00	2000	18.0	--	--	--	--	--
06...	1303	1.00	11700	21.0	--	--	--	--	--
DEC									
19...	1440	16.0	2000	--	--	--	--	--	.00
19...	1445	3.00	2000	30.0	--	--	--	--	.00
19...	1515	1.00	11700	24.0	--	--	--	--	--
19...	1520	--	11700	--	--	--	--	--	.00
JAN									
16...	1429	1.00	11700	10.0	--	--	--	--	--
16...	1430	--	11700	--	--	--	--	--	.00
16...	1450	3.00	2000	--	--	--	--	--	.00
16...	1451	1.00	2000	17.0	--	--	--	--	--
FER									
18...	1850	3.00	2000	--	--	--	--	--	.5
18...	1900	--	11700	--	--	--	--	--	1.0
19...	0815	3.00	2000	6.0	--	--	--	--	.00
19...	0830	--	11700	--	--	--	--	--	1.0
19...	0834	3.00	11700	3.0	--	--	--	--	--
27...	0920	--	50000	--	--	--	--	--	.00
27...	1130	--	50000	--	--	--	--	--	.00
27...	1340	--	2000	--	--	--	--	--	.00
MAR									
02...	1250	--	--	--	--	--	--	--	--
06...	1315	--	50000	--	--	--	--	--	.00
06...	1645	--	50000	--	--	--	--	--	.00
11...	1140	--	50000	--	--	--	--	--	.00
11...	1410	--	50000	--	--	--	--	--	.00
11...	1735	--	50000	--	--	--	--	--	.00
17...	1715	15.0	2000	--	--	--	--	--	.00
17...	1720	3.00	2000	--	--	--	--	--	.00
17...	1745	--	11700	--	--	--	--	--	.00
18...	1905	--	20000	--	--	--	--	--	.00
20...	0700	--	50000	--	--	--	--	--	.00
20...	0940	--	50000	--	--	--	--	--	.00
20...	1320	--	50000	--	--	--	--	--	.00
25...	1025	--	50000	--	--	--	--	--	.00
25...	1225	--	50000	--	--	--	--	--	1.1
26...	1400	--	50000	--	--	--	--	--	.00
28...	0952	3.00	2000	9.0	--	--	--	--	.00
28...	1000	--	50000	--	--	--	--	--	.00
28...	1002	3.00	11700	9.0	--	--	--	--	.00
28...	1006	3.00	15300	9.0	--	--	--	--	.00
APR									
03...	0747	3.00	2000	12.0	--	--	--	--	.00

382640077159900 - POTOMAC RIVER AT DOUGLAS POINT --Cont.

APPENDIX A
WATER QUALITY DATA - WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARRON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MS/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS, LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROS, ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
OCT 06...	--	--	--	--	--	--	--	--	--	--
OCT 06...	--	--	--	--	--	--	--	--	--	--
DEC 19...	.07	3.9	2.5	.16	3.6	7.4	--	--	--	23000
19...	.07	3.9	5.1	.18	2.2	6.0	--	--	--	15000
19...	--	--	--	--	--	--	--	--	--	--
19...	.09	4.9	.17	.04	7.4	12	--	--	--	12000
JAN 16...	--	--	--	--	--	--	--	--	--	--
16...	.20	4.2	5.0	.16	2.9	7.0	--	--	--	5000
16...	.09	3.0	2.0	.17	2.5	5.5	--	--	--	2700
16...	--	--	--	--	--	--	--	--	--	--
FEB 18...	.11	4.7	10.0	.08	4.0	8.7	--	--	--	6300
18...	.14	5.9	14.0	.52	.90	6.7	--	--	--	--
19...	--	--	--	--	--	5.0	.08	--	--	6100
19...	.11	5.0	10.0	.04	5.3	10	--	--	--	6600
19...	--	--	--	--	--	--	--	--	--	--
27...	.14	4.2	6.9	.14	4.0	8.2	--	--	--	--
27...	.15	3.3	7.0	.18	3.7	6.9	--	--	--	--
27...	.07	4.9	9.4	.40	2.0	6.9	--	--	--	--
MAR 02...	--	--	--	--	--	--	--	--	--	--
06...	.11	7.0	7.0	.32	2.1	9.1	--	--	--	--
06...	.09	4.5	7.1	.10	5.6	10	--	--	--	30000
11...	.11	9.5	7.2	--	1.9	11	--	--	--	51000
11...	.08	8.1	5.4	.27	4.2	12	--	--	--	65000
11...	.12	8.0	9.4	.24	3.5	12	--	--	--	53000
17...	.32	5.0	9.6	.31	4.5	9.5	--	--	--	66000
17...	.08	8.7	12.0	--	2.0	11	--	--	--	59000
17...	.20	9.0	6.9	.08	5.0	12	--	--	--	62000
18...	.16	7.8	13.0	.09	7.5	12	--	--	--	--
20...	.31	4.5	3.9	.29	4.0	9.0	--	--	--	34000
20...	.17	5.1	8.8	.29	4.0	12	--	--	--	36000
20...	.12	6.0	1.0	.14	6.2	12	--	--	--	40000
25...	.13	2.5	7.0	.27	2.1	5.8	--	--	--	30000
25...	.12	4.5	13.0	.76	2.3	6.8	--	--	--	19000
26...	.07	3.5	11.0	.24	1.4	5.1	--	--	--	24000
28...	--	--	--	--	--	--	--	--	--	--
28...	.06	4.1	7.9	.16	2.6	6.7	--	--	--	14000
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
APR 03...	--	--	--	--	--	--	--	--	--	--

APPENDIX A
 382640077159900 - POTOMAC RIVER AT DOUGLAS POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (DISK 1 IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (R2135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
APR	0755	---	50000	---	---	---	---	---	0.00	0.0
	0901	3.00	15300	12.0	---	---	---	---	---	---
	0922	3.00	2000	19.0	---	---	---	---	---	---
	10...	---	50000	---	---	---	---	---	0.00	0.0
	0932	3.00	11700	18.0	---	---	---	---	---	---
	1031	1.00	2000	27.0	---	---	---	---	---	---
	1107	3.00	11700	20.0	---	---	---	---	---	---
	1110	---	11700	---	---	---	---	---	---	-1.4
MAY	1007	3.00	2000	15.0	---	---	---	---	---	---
	1016	3.00	11700	18.0	---	---	---	---	---	---
	1510	---	2000	---	---	---	---	---	0.00	0.0
	1518	3.00	2000	24.0	---	---	---	---	---	---
	1520	---	11700	---	---	---	---	---	0.00	0.0
	1531	3.00	11700	12.0	---	---	---	---	---	---
JUN	0843	1.00	2000	26.0	---	---	---	---	---	---
	0902	3.00	11700	36.0	---	---	---	---	---	---
	0921	3.00	15300	25.0	---	---	---	---	---	---
	1020	3.00	2000	25.0	---	---	---	---	---	---
	17...	---	2000	---	---	---	---	---	0.00	0.0
JUL	0735	3.00	2000	24.0	---	---	---	---	0.00	0.0
	0746	3.00	11700	18.0	---	---	---	---	---	---
	0750	---	11700	---	---	---	---	---	0.00	0.0
AUG	1905	3.00	2000	24.0	1.80	---	---	25.0	---	---
	1910	15.0	2000	---	---	---	---	---	0.00	0.0
	0840	3.00	2000	28.0	4.30	---	---	450	0.00	0.0
	0845	15.0	2000	---	---	---	---	---	0.00	0.0
	0903	3.00	11700	35.0	3.90	---	---	260	0.00	0.0
	0910	---	11700	---	---	---	---	---	---	-1.0
SEP	1745	3.00	2000	30.0	8.00	---	---	70.0	0.00	0.0
	1802	3.00	11700	24.0	5.30	---	---	50.0	---	---
	1810	---	11700	---	---	---	---	---	---	0.00

APPENDIX A
382640077159900 - POTOMAC RIVER AT DOUGLAS POINT ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARRON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS. LAGTIME AT 20C (82135)	DEOXYGE NATION NITRDG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TION COV- STAVT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-4F (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
APR 03...	.13	2.9	5.4	.24	2.2	5.0	--	--	--	13000
03...	--	--	--	--	--	--	--	--	--	--
10...	.08	2.9	--	.00	.00	2.8	--	--	--	16000
10...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	.11	9.2	--	.00	.00	9.2	--	--	--	75000
MAY 09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
19...	.35	1.5	9.9	.23	1.6	3.2	--	--	--	26000
19...	.23	2.4	11.0	.07	3.7	6.1	--	--	--	32000
19...	--	--	--	--	--	--	--	--	--	--
JUN 02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	.28	1.5	5.8	.07	5.8	7.5	--	--	--	--
JUL 22...	.21	4.9	7.7	.37	1.7	6.7	--	--	--	40000
22...	--	--	--	--	--	--	--	--	--	--
22...	.16	5.4	3.9	.31	1.6	6.9	--	--	--	26000
AUG 18...	--	--	--	--	--	--	--	--	--	--
18...	.19	5.9	13.0	--	2.9	8.6	--	--	--	--
19...	.14	5.5	11.0	.30	2.6	8.2	--	--	--	--
19...	.17	5.5	15.0	--	1.7	7.2	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	.22	5.9	7.7	.10	3.7	9.5	--	--	--	--
SEP 17...	.21	5.7	13.0	--	1.7	7.4	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	.11	5.0	13.0	--	1.3	6.4	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTFMR 1981

DATE	TIME	SAM- DEPTH (FEET)	SAM- PLING (FEET)	CROSS SECTION (FT FM L BANK)	LOC- ATION, CROSS	TRANS- PAR- ENCY (SECHI DISK) (IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM. CARBON, LAGTIME AT 20C (82135)
		(00003)	(00003)	(00009)	(00036)	(00077)	(00198)	(00199)	(00200)	(00302)	(00302)	(82135)
OCT												
	1533	1.00	2000			22.0	4.000		960			
	1540	20.0	2000									.00
	1608	1.00	11700			14.0	2.300		750			
NOV												
	1850	17.0	2000									.00
	0940	2.00	2000			48.0			150			.00
	0845	21.0	2000									.00
	0900		11700									.00
	0904	2.00	11700			23.0			150			
DEC												
	1620	2.00	2000			34.0	2.700		7.00			.00
	1640		11700									.00
	1644	2.00	11700			24.0						
FEB												
	1400	2.00	2000			36.0			300			.00
	1405	26.0	2000									.00
	1420		11700									.00
	1424	2.00	11700			34.0						
	1053	2.00	2000			24.0						
	1437	2.00	2000			23.0						
	1418	2.00	2000			12.0						
MAR												
	1830	3.00	2000									.00
	1835	20.0	2000									.00
	1900		11700									.65
	1406	2.00	2000			12.0						
APR												
	1300	23.0	2000									.00
	1305	2.00	2000			7.0			1800			.00
	1330		11700									.00
	1334	2.00	11700			7.0			2100			
	0944	3.00	2000			18.0						
MAY												
	1250	20.0	2000									.00
	1255	2.00	2000			12.0			145			.00
	1320		11700									.00
	1324	2.00	11700			12.0	1.100		70.0			
	1356	2.00	2000			24.0						
JUN												
	01...	2.00	2000			12.0						
	1632	2.00	11700			12.0						
	1535	2.00	2000			13.0			1300			.00
	1540	24.0	2000									.00
	1618	2.00	11700			11.0			2100			

APPENDIX A
 382640077159900 - POTOMAC RIVER AT DOUGLAS POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEMA ULT. CARBON- ACEOUS (MS/L) (00320)	OXYGEN DEMAND, BIOCHEMA NITROS, LAGTIME AT 20C (82136)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEMA NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEMA UNINHIB ULT. (MG/L) (00319)	DEJXY- SEVA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-4F (COLS./ 100 ML) (31616)	STREP- TOCOC FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
OCT 21...	--	--	--	--	--	--	--	--	--	--
21...	.07	3.4	--	.00	.00	3.4	--	--	--	6900
NOV 17...	.15	2.4	--	.00	.00	2.4	--	--	--	1800
18...	.15	2.2	.00	.29	.30	2.5	--	--	--	4900
18...	.16	2.7	12.0	--	.43	3.1	--	--	--	4100
18...	.15	2.2	2.0	.26	.42	2.6	--	--	--	3100
18...	--	--	--	--	--	--	--	--	--	--
DEC 15...	--	--	--	--	--	7.9	--	--	--	28000
15...	.15	5.3	4.1	.09	2.6	8.2	--	--	--	32000
15...	--	--	--	--	--	--	--	--	--	--
FER 04...	.16	5.1	10.0	.40	.45	5.5	--	--	--	35000
04...	.10	4.0	.00	.48	1.0	5.0	--	--	--	18000
04...	.22	4.4	13.1	--	.74	5.1	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
MAR 03...	.10	4.7	10.5	.12	4.6	9.4	--	--	--	<4500
03...	.12	4.0	9.8	.12	4.5	8.6	--	--	--	<12000
03...	.13	4.7	8.3	.20	3.1	7.8	--	--	--	<10000
24...	--	--	--	--	--	--	--	--	--	--
APR 15...	.15	3.2	9.5	.54	3.1	6.2	--	--	--	5700
15...	.20	3.1	5.2	.21	5.1	8.2	--	--	--	<12000
15...	.17	2.0	2.9	.08	3.6	5.6	--	--	--	2400
15...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
MAY 19...	.09	4.3	--	--	1.1	5.3	--	--	--	20000
19...	.11	3.7	9.9	.75	.86	4.6	--	--	--	26000
19...	.09	5.4	9.2	.35	1.4	6.9	--	--	--	41000
19...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
JUN 01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
30...	.20	6.0	--	.00	.00	6.0	--	--	--	25000
30...	.16	5.2	--	.00	.00	5.2	--	--	--	13000
30...	--	--	--	--	--	--	--	--	--	--

APPENDIX A
 382640077159900 - POTOMAC RIVER AT DOUGLAS POINT ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOCATION	DEPTH	TRANS- PAR- ENCY	SURFACE LIGHT	SURFACE LIGHT	SURFACE LIGHT	DEPTH	DEPTH	DEPTH	LIGHT	LIGHT	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C
DATE	TIME	(00003) (00009)	(00034) (00198)	(00077) (00199)	(00034) (00198)	(00034) (00198)	(00034) (00198)	(00034) (00198)	(00034) (00198)	(00034) (00198)	(00034) (00198)	(00034) (00198)	(00302) (82135)	(00302) (82135)
JUL	0915	---	---	---	---	---	---	---	---	---	---	---	---	---
27...	2025	3.00	---	---	---	---	---	---	---	---	---	---	---	---
27...	2030	25.0	---	---	---	---	---	---	---	---	---	---	---	---
27...	2040	1.60	24.0	---	---	---	---	---	---	---	---	---	---	---
28...	0810	1.60	19.0	6.00	---	---	---	---	---	---	---	---	---	---
28...	0818	1.60	12.0	3.00	---	---	---	---	---	---	---	---	---	---
AUG	1714	1.60	24.0	---	---	---	---	---	---	---	---	---	---	---
17...	1725	---	---	---	---	---	---	---	---	---	---	---	---	---
17...	1728	1.60	18.0	---	---	---	---	---	---	---	---	---	---	---
SEP	1744	1.60	22.0	---	---	---	---	---	---	---	---	---	---	---
21...	1745	---	---	---	---	---	---	---	---	---	---	---	---	---
21...	1748	1.60	16.0	---	---	---	---	---	---	---	---	---	---	---

DATE	TIME	DEOXYGENATION CARBON K1 TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON ACEOUS (43/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. BASE E PER DAY AT 20C (92132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	SEVA-TION STANT K1 TO BASE E (00325)	COLI-FORM, FECAL, 0.45 UM-WF (COLS./100 ML) (31616)	STREP-TOCOCCI, KF-AGAR (COLS. PER 100 ML) (31673)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML) (60050)
JUL	0915	.04	8.1	.18	1.4	9.5	---	---	---	---
27...	2025	.10	3.0	---	1.3	4.3	---	---	---	>19000
27...	2030	.07	---	---	---	4.1	.07	---	---	>20000
27...	2040	---	---	---	---	---	---	---	---	---
28...	0810	---	---	---	---	---	---	---	---	---
28...	0818	---	---	---	---	---	---	---	---	---
AUG	1714	---	---	---	---	---	---	---	---	---
17...	1725	.12	4.1	.00	---	4.1	---	---	---	>9400
17...	1728	---	---	---	---	---	---	---	---	---
SEP	1744	---	---	---	---	---	---	---	---	---
21...	1745	.12	2.7	.10	1.3	4.0	---	---	---	>7300
21...	1748	---	---	---	---	---	---	---	---	---

APPENDIX A
 382124077122700 - POTOMAC RIVER AT MARYLAND POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAMPLE LOCATION	SAMPLING DEPTH (FEET)	TRANS-PAR-ENCY	DISK (IV)	SURFACE LIGHT (FEET)	DEPTH TO 10% OF SURFACE LIGHT (FEET)	DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCIDENT. 400-700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME-DIATE (MG/L)	OXYGEN DEMAND, CARBON. DAYS LAGTIME AT 20C (82135)
JUL 20...	1849	5900	3.00	8.0							
AUG 01...	1651	5900	1.60	50.0							
01...	1718	3600	1.60	24.0							
01...	1722	1800	1.60	18.0							
SEP 13...	1425	5900	3.00	21.0						.0	.00

DATE	TIME	OXYGEN DEMAND, BIOCHEM. NITROG. DAYS LAGTIME AT 20C (82133)	OXYGEN DEMAND, BIOCHEM. NITROG. ULT. (MG/L) (00320)	BASE E PER DAY AT 20C (82135)	BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM. NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM. UNINHIB ULT. (MG/L) (00319)	SEVA-TION CON-STANT KI TO BASE E (00325)	COLI-FORM, FECAL. 0.45 UM-WF (COLS./100 ML) (31616)	STREP-FECAL KF AGAR (COLS. PER 100 ML) (31673)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML) (60050)
JUL 20...	--	--	--	--	--	--	--	--	--	--	--
AUG 01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
SEP 13...	--	--	--	--	--	--	--	.07	--	--	72000

APPENDIX A
 382124077122700 - POTOMAC RIVER AT MARYLAND POINT --Cont.

WATER QUALITY DATA. WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (SECCHI DISK IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)
OCT 06...	1400	3.00	5900	18.0	--	--	--	.0	.00
DEC 15...	1415	3.00	2700	--	--	--	--	.0	.00
DEC 19...	1345	30.0	5900	42.0	--	--	--	--	--

DATE	TIME	OXYGEN DEMAND, BIOCHEM LAGTIME AT 20C (82133)	OXYGEN DEMAND, BIOCHEM NITROS. LAGTIME AT 20C (82135)	DEOXYGE NATION K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UV-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
OCT 06...	055	3.1	--	--	3.1	--	--	--	28000
DEC 15...	025	1.5	--	0.90	2.5	--	--	--	6300
DEC 19...	--	--	--	--	--	--	--	--	27000

APPENDIX A
382233077102000 - POTOMAC RIVER AT STUART WHARF

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LOC- ATION, CRDSS SECTION (FT FM L BANK)	(00009)	TRANS- PAR- ENCY (SECHI DISK)	(00077)	LIGHT DEPT- TO 1% OF	(00034)	LIGHT DEPTH TO 10% OF	(00198)	LIGHT DEPTH TO 50% OF	(00199)	LIGHT INCID. 400- 700NM	(00200)	OXYGEN DEMAND, BIOCHEM- CARBON, DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, DIATE (MG/L)	(00302)
JAN																		
16...	1540	27.0	3600													.00	.0	.00
16...	1545	3.00	3600													.00	.0	.00
16...	1548	1.00	3600			24.0										---	---	---
FEB																		
18...	1740	17.0	3600													.00	.0	.00
18...	1745	3.00	3600													.00	.0	.00
20...	1105	22.0	3600													.00	.0	.00
27...	0800	3.00	50000													.00	.0	.00
27...	1110	3.00	50000													.00	.0	.00
27...	1115	27.0	50000													.00	.0	.00
27...	1400	27.0	50000													.00	.0	.00
MAR																		
07...	0720	27.0	50000													.00	.0	.00
10...	1740	27.0	50000													1.6	1.6	1.6
10...	1745	3.00	50000													.00	.0	.00
15...	0840	3.00	50000													.50	.5	.50
15...	0950	27.0	50000													.00	.0	.00
17...	1605	24.0	3600													-.35	.6	-.35
17...	1610	3.00	3600													.00	.0	.00
21...	0820	27.0	50000													.00	.0	.00
26...	1520	3.00	50000													.00	.0	.00
28...	1129	3.00	3600			22.0										.00	.0	.00
28...	1130	27.0	50000													.00	.0	.00
28...	1135	3.00	50000													.00	.0	.00
28...	1138	3.00	6150			22.0										.00	.0	.00
APR																		
02...	1120	27.0	50000													.00	.0	.00
02...	1440	27.0	50000													.00	.0	.00
03...	0859	3.00	3600			10.0										.00	.0	.00
03...	0905	27.0	50000													.00	.0	.00
03...	0906	3.00	6150			10.0										.00	.0	.00
10...	1019	3.00	3600			15.0										.00	.0	.00
10...	1020	27.0	50000													.00	.0	.00
10...	1025	3.00	50000													.00	.0	.00
10...	1028	3.00	6150			18.0										.00	.0	.00
10...	1710	3.00	50000													.00	.0	.00
22...	1520	---	---													.69	.8	.69
23...	1204	3.00	3600			30.0										.00	.0	.00
MAY																		
09...	1056	3.00	3600			30.0										.00	.0	.00
09...	1106	3.00	6150			30.0										.00	.0	.00
19...	1620	3.00	3600			12.0										.00	.0	.00
19...	1625	22.0	3600			---										.00	.0	.00

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (52133)	OXYGEN DEMAND, BIOCHEM ULIT. CARBON-- ACEOUS (MS/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS, DAYS LAGTIME AT 20C (92135)	DEOXYGE NATION NITROG, KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG, ULIT. (00321)	OXYGEN DEMAND, BIOCHEM NITROG, ULIT. (00319)	OXYGEN DEMAND, RIOCHEM UNINHIB ULT. (MG/L) (00325)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31616)	STREPTO- COCCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JAN										
16...	.16	4.4	9.0	.08	3.2	7.6	7.6	--	--	6400
16...	.27	7.1	--	.00	.00	7.1	7.1	--	--	24000
16...	--	--	--	--	--	--	--	--	--	--
FEB										
18...	.16	6.1	1.4	.03	5.8	12	12	--	--	15000
18...	.21	5.9	14.0	.41	1.2	7.0	7.0	--	--	18000
20...	.15	6.2	15.2	--	.90	7.1	7.1	--	--	--
27...	.12	4.8	13.4	.32	.90	5.8	5.8	--	--	--
27...	.15	5.2	12.5	.67	1.1	6.2	6.2	--	--	--
27...	.16	9.5	14.1	.90	1.1	11	11	--	--	--
27...	.14	6.2	12.7	--	1.0	7.2	7.2	--	--	--
MAR										
07...	.32	5.4	9.0	.25	2.8	8.2	8.2	--	--	--
10...	.20	11	--	.00	.00	13	13	--	--	56000
10...	.19	6.7	10.2	.31	2.7	9.4	9.4	--	--	52000
15...	.20	5.0	11.5	.31	3.9	8.9	8.9	--	--	71000
15...	.22	6.1	14.7	--	4.6	11	11	--	--	59000
17...	.29	5.5	3.0	.10	8.0	14	14	--	--	94000
17...	.13	9.1	14.2	.39	2.5	12	12	--	--	83000
21...	.20	9.0	7.2	.18	4.5	14	14	--	--	--
26...	.09	3.9	10.5	.22	1.3	5.2	5.2	--	--	36000
28...	--	--	--	--	--	--	--	--	--	--
28...	.19	2.9	10.9	.35	.80	3.5	3.5	--	--	30000
28...	.15	3.9	--	.00	.00	3.9	3.9	--	--	28000
28...	--	--	--	--	--	--	--	--	--	--
APR										
02...	.12	1.4	7.1	--	.70	2.1	2.1	--	--	18000
02...	.06	2.9	4.4	.14	2.1	5.0	5.0	--	--	9600
03...	--	--	--	--	--	--	--	--	--	--
03...	.11	3.2	7.9	.40	1.3	4.5	4.5	--	--	14000
03...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
10...	.10	2.0	10.3	.36	1.7	3.7	3.7	--	--	11000
10...	.22	1.1	9.7	--	--	4.0	4.0	--	--	13000
10...	--	--	--	--	--	--	--	--	--	--
10...	.15	3.4	7.0	.14	2.4	5.7	5.7	--	--	15000
22...	.12	10	10.8	.37	2.3	13	13	--	--	100000
23...	--	--	--	--	--	--	--	--	--	--
MAY										
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	3.0	3.0	.09	--	17000
19...	.16	2.5	14.4	--	.90	3.4	3.4	--	--	5200

APPENDIX A
 392233077102000 - POTOMAC RIVER AT STUART WHARF1 --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOCATION	DEPTH TO 1% OF SURFACE LIGHT (FEET)	DEPTH TO 10% OF SURFACE LIGHT (FEET)	DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCIDENT 400-700NM INTENS. (U-EINS/SQCM/S)	OXYGEN DEMAND, IMME-DIATE (MG/L) (00302)	OXYGEN DEMAND, BIOCHEM CARBON DAYS LAGTIME AT 20C (R2135)
MAY 19...	1702	3.00 6150	30.0	--	--	--	--	--
JUN 17...	0930	3.00 3600	21.0	--	--	--	.0	.00
JUL 22...	0825	25.0 3600	--	--	--	--	.0	.00
JUL 22...	0830	3.00 3600	26.0	--	--	--	.0	.00
AUG 18...	1755	3.00 3600	28.0	4.80	--	110	.0	.00
SEP 17...	1835	3.00 3600	37.0	7.00	--	17.0	.0	.00

DATE	TIME	OXYGEN DEMAND, BIOCHEM ULT. (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM ULT. (MG/L) (00319)	SEVANTION CON-STANT (COLS./100 ML) (00325)	COLIFORM, FECAL 0.45 UM-WF (COLS./100 ML) (31616)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTOPLANKTON, TOTAL (CELLS PER ML) (60050)
MAY 19...	--	--	--	--	--	--	--	--
JUN 17...	--	--	--	4.2	.06	--	--	--
JUL 18...	.18	3.7	1.1	4.8	--	--	--	<17000
JUL 22...	--	--	--	3.4	.13	--	--	16000
AUG 18...	--	--	--	5.3	.14	--	--	--
SEP 17...	--	--	--	4.2	.11	--	--	--

APPENDIX A

382233077102000 - POTOMAC RIVER AT STUART WHARF --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L RANK)	(00009)	TRANS- PAR- ENCY (SECCHI DISK) (TN)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	(00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, BIOCHEM CARBON. LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
OCT																	
	21...	1.00	3600			24.0	--	4.000	--	--	--	600	--	--	--	--	--
	21...	3.00	3600			--	--	--	--	--	--	--	--	--	--	.00	.0
	21...	16.0	3600			--	--	--	--	--	--	--	--	--	--	.00	.0
NOV																	
	1800	2.00	3600			--	--	--	--	--	--	--	--	--	--	.00	.0
DEC																	
	15...	2.00	3600			35.0	9.25	--	--	--	--	40.0	--	--	--	.00	.0
FER																	
	04...	2.00	3600			36.0	--	--	--	--	--	--	--	--	--	.00	.0
	04...	20.0	3600			--	--	--	--	--	--	--	--	--	--	.00	.0
MAR																	
	03...	2.00	3600			22.0	--	--	--	--	--	--	--	--	--	.00	.0
	03...	23.0	3600			--	--	--	--	--	--	--	--	--	--	.00	.0
	18...	2.00	3600			24.0	--	--	--	--	--	--	--	--	--	.00	.0
	18...	22.0	3600			--	--	--	--	--	--	--	--	--	--	.00	.0
APR																	
	1410	2.00	3600			12.0	4.30	--	--	--	--	2100	--	--	--	.00	.0
	1415	23.0	3600			--	--	--	--	--	--	--	--	--	--	.00	.0
MAY																	
	19...	2.00	3600			13.0	4.00	--	--	--	--	150	--	--	--	.00	.0
	19...	26.0	3600			--	--	--	--	--	--	--	--	--	--	.00	.0
JUN																	
	01...	2.00	3600			15.0	4.50	--	--	--	--	--	--	--	--	.00	.0
	18...	3.00	3600			19.0	--	--	--	--	--	--	--	--	--	.00	.0
	18...	3.00	3600			19.0	--	--	--	--	--	--	--	--	--	.00	.0
	18...	3.00	3600			19.0	--	--	--	--	--	--	--	--	--	.00	.0
	18...	3.00	3600			21.0	--	--	--	--	--	--	--	--	--	.00	.0
	18...	3.00	3600			22.0	--	--	--	--	--	--	--	--	--	.00	.0
	18...	3.00	3600			21.0	--	--	--	--	--	--	--	--	--	.00	.0
	30...	2.00	3600			4.00	4.00	--	--	--	--	2500	--	--	--	.00	.0
	30...	24.0	3600			--	--	--	--	--	--	--	--	--	--	.00	.0
JUL																	
	1924	1.60	3600			18.0	5.50	--	--	--	--	--	--	--	--	.00	.0
	1925	3.00	3600			--	--	--	--	--	--	--	--	--	--	.00	.0
	1930	26.0	3600			--	--	--	--	--	--	--	--	--	--	.00	.0
AUG																	
	1619	1.60	3600			19.0	--	--	--	--	--	--	--	--	--	.00	.0
	1620	3.00	3500			--	--	--	--	--	--	--	--	--	--	.00	.0
SEP																	
	1630	22.0	3600			--	--	--	--	--	--	--	--	--	--	.00	.0
	1636	1.60	3600			23.0	--	--	--	--	--	--	--	--	--	.00	.0

APPENDIX A
 382233077102000 - POTOMAC RIVER AT STUART WHARF --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (42133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (4320)	OXYGEN DEMAND, BIOCHEM NITROG. LAGTIME AT 20C. (82136)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (4321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (4319)	DEOXY- GEVA- TION CON- STANT KI TO BASE E (40325)	COLI- FORM, FECAL, 0.45 UM-MF (4016)	STREP- TOCOC FECAL, KF AGAR (4017)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (40050)
OCT									
21...	--	--	--	--	--	--	--	--	--
21...	.06	3.3	.43	1.6	4.8	--	--	--	2900
21...	.12	2.3	9.0	1.4	3.7	--	--	--	590
NOV									
17...	.13	1.9	3.0	.70	2.6	--	--	--	2900
DEC									
15...	--	--	--	--	4.3	.12	--	--	<7900
FEB									
04...	.18	3.5	13.0	.90	4.5	--	--	--	14000
04...	.13	5.4	5.0	.35	5.7	--	--	--	11000
MAR									
03...	.17	6.3	--	.00	6.3	--	--	--	<19000
03...	.25	8.9	--	.00	8.9	--	--	--	33000
18...	--	--	--	--	--	--	--	--	--
18...	.16	3.7	3.5	2.0	5.7	--	--	--	--
APR									
15...	.07	2.2	11.2	2.1	4.3	--	--	--	<5700
15...	.10	2.4	10.2	1.8	4.2	--	--	--	1200
MAY									
19...	.14	4.2	9.9	.80	4.9	--	--	--	14000
19...	.11	3.1	9.2	1.5	4.6	--	--	--	10000
JUN									
01...	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	7.3	.13	--	--	<9600
30...	.12	4.4	14.0	1.2	5.6	--	--	--	7900
JUL									
27...	--	--	--	--	--	--	--	--	--
27...	.16	1.3	5.1	2.0	3.3	--	--	--	>5700
27...	.05	2.7	3.1	.70	3.4	--	--	--	>990
AUG									
17...	--	--	--	--	--	--	--	--	--
17...	.14	3.2	2.7	.69	3.9	--	--	--	>5200
SFP									
21...	.11	2.5	--	.00	2.5	--	--	--	--
21...	--	--	--	--	--	--	--	--	--

01660800 APPENDIX A - POTOMAC R NR MORGANTOWN, MD

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAM- PLING DEPTH (FEET)	SECTION (FT FW L BANK)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME, AT 20C (82135)	OXYGEN DEMAND, IMNE- DIATE (MG/L) (00302)
FEB 23...	1215	1.60	50.0	--	--	--	--	--	.00	.0
MAR 08...	0720	1.00	1500	--	--	--	--	--	.00	.0
16...	1330	3.00	1500	--	--	--	--	--	.00	.0
JUL 20...	1807	3.00	1500	10.0	--	--	--	--	--	--
26...	1140	1.00	1500	--	--	--	--	--	.00	.0
31...	1357	1.60	1500	44.0	--	--	--	--	--	--
31...	1440	66.0	1500	--	--	--	--	--	.00	.0
31...	1455	1.00	1500	--	--	--	--	--	.00	.0
AUG 01...	1613	1.60	1500	32.0	--	--	--	--	--	--
16...	0930	1.00	1500	--	--	--	--	--	.00	.0
SEP 05...	0735	60.0	1500	--	--	--	--	--	.00	.0
07...	0720	59.0	1500	--	--	--	--	--	.00	.0
07...	1000	75.0	1500	--	--	--	--	--	.00	.0
10...	0900	3.00	1500	--	--	--	--	--	.00	.0
10...	0910	69.0	1500	--	--	--	--	--	.00	.0
10...	1230	62.0	1500	--	--	--	--	--	.00	.0
11...	1000	65.0	1500	--	--	--	--	--	.00	.0
11...	1350	55.0	1500	--	--	--	--	--	.00	.0
12...	1510	52.0	1500	--	--	--	--	--	.00	.0
13...	1200	3.00	1500	27.0	--	--	--	--	.00	.0
21...	1215	3.00	1500	--	--	--	--	--	.00	.0

011660800 APPENDIX A
 -- POTOMAC R VR MORGANTOWN, MD --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS, DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIR ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
FEB 23...	.23	3.0	--	.00	.00	3.0	--	--	--	--
MAR 08...	.09	3.3	4.1	.16	1.3	4.6	--	--	--	--
16...	.12	2.5	11.3	.39	1.2	3.6	--	--	--	--
JUL 20...	--	--	--	--	--	--	--	--	--	--
26...	.28	13	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
31...	.19	2.2	12.5	2.4	.81	3.0	--	--	--	--
31...	.17	4.9	12.8	--	.52	5.4	--	--	--	--
AUG 01...	--	--	--	--	--	--	--	--	--	--
16...	.12	1.9	2.1	.20	.58	2.5	--	--	--	--
SEP 05...	.21	2.5	14.8	--	.52	3.1	--	--	--	--
07...	.21	1.7	7.4	--	.83	2.5	--	--	--	--
07...	.12	2.3	13.8	--	.52	3.3	--	--	--	--
10...	.18	2.5	11.7	--	.41	2.9	--	--	--	--
10...	.16	2.1	11.5	.15	.93	3.1	--	--	--	--
10...	.14	2.3	10.2	.06	1.4	3.7	--	--	--	--
11...	.13	1.5	8.2	.48	.82	2.4	--	--	--	--
11...	.16	1.5	8.0	.24	1.1	2.6	--	--	--	--
12...	.12	3.0	13.7	--	.70	3.7	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	40000
21...	.20	2.4	10.0	--	.35	2.7	--	--	--	--

01660800

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- DEPTH (FEET)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FV L RANK)	(00009)	TRANS- PAR- ENCY, DISK (IN)	(00077)	LIGHT DEPTH TO 1%	(00034)	LIGHT DEPTH TO 10%	(00198)	LIGHT DEPTH TO 50%	(00199)	LIGHT INCID. 400- 700NM	(00200)	OXYGEN DEMAND, BIOCHEM CARBON. LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
OCT																	
06...	1621	1.00		1500		22.0		--		--		--		--		--	--
12...	1120	59.0		1500		--		--		--		--		--		--	.00
12...	1130	3.00		1500		--		--		--		--		--		--	.00
19...	1302	3.00		1500		--		--		--		--		--		--	.00
19...	1442	52.0		1500		--		--		--		--		--		--	.00
26...	1315	59.0		1500		--		--		--		--		--		--	.00
26...	1320	3.00		1500		--		--		--		--		--		--	.00
26...	1635	59.0		1500		--		--		--		--		--		--	.00
NOV																	
04...	1035	52.0		1500		--		--		--		--		--		--	.00
04...	1045	3.00		1500		--		--		--		--		--		--	.00
04...	1315	52.0		1500		--		--		--		--		--		--	.00
25...	1420	3.00		1500		--		--		--		--		--		--	.00
25...	1430	52.0		1500		--		--		--		--		--		--	.00
DEC																	
19...	1220	3.00		1500		36.0		--		--		--		--		--	.00
JAN																	
16...	1700	63.0		1500		--		--		--		--		--		--	.00
16...	1705	3.00		1500		--		--		--		--		--		--	.00
FEB																	
18...	1625	72.0		1500		--		--		--		--		--		--	.00
18...	1630	3.00		1500		36.0		--		--		--		--		--	.00
MAR																	
10...	1645	55.0		50000		--		--		--		--		--		--	.00
12...	1410	55.0		50000		--		--		--		--		--		--	.00
17...	1505	3.00		1500		24.0		--		--		--		--		--	.00
18...	1131	55.0		50000		--		--		--		--		--		--	.00
19...	1205	13.0		1500		--		--		--		--		--		--	.00
24...	1030	3.00		50000		--		--		--		--		--		--	.00
24...	1400	3.00		50000		--		--		--		--		--		--	.00
26...	1640	3.00		50000		--		--		--		--		--		--	.00
28...	1250	55.0		50000		--		--		--		--		--		--	.00
28...	1258	3.00		4000		24.0		--		--		--		--		--	.00
APR																	
02...	1540	3.00		50000		--		--		--		--		--		--	.00
03...	1047	3.00		4000		11.0		--		--		--		--		--	.00
03...	1050	3.00		50000		--		--		--		--		--		--	.00
08...	1335	55.0		50000		--		--		--		--		--		--	.00
10...	1123	3.00		4000		25.0		--		--		--		--		--	.00
10...	1125	62.0		1500		--		--		--		--		--		--	.00
10...	1135	55.0		50000		--		--		--		--		--		--	.00
10...	1136	55.0		50000		--		--		--		--		--		--	.00
10...	1143	3.00		2500		26.0		--		--		--		--		--	.00
10...	1154	3.00		1500		24.0		--		--		--		--		--	.00

APPENDIX A
 - POTOMAC R NR MORGANTOWN, MD ---Cont.

01660900

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS. LAGTIME AT 20C (92135)	DEOXYGE NATION NITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROS. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM NITROS. ULT. (MG/L) (00319)	OXYGEN DEMAND, BIOCHEM NITROS. ULT. (MG/L) (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
OCT										
06...	--	--	--	--	--	--	--	--	--	--
12...	.13	1.7	13.2	.65	.44	2.2	--	--	--	--
18...	.06	3.2	--	.00	.00	3.2	--	--	--	--
19...	.11	2.4	11.0	--	1.2	3.6	--	--	--	--
19...	.15	2.1	12.0	.12	2.5	4.6	--	--	--	--
26...	.12	1.0	4.2	.15	1.1	2.1	--	--	--	--
26...	.10	1.0	7.5	.35	1.0	2.0	--	--	--	--
26...	.10	.9	5.5	.10	1.4	2.3	--	--	--	--
NOV										
04...	.11	2.0	--	--	--	--	--	--	--	5300
04...	.11	2.3	--	--	--	--	--	--	--	5200
04...	--	1.9	--	--	--	--	--	--	--	4200
25...	.17	1.8	--	.00	.00	1.8	--	--	--	9000
25...	.10	2.4	1.7	.27	.34	2.8	--	--	--	4400
DEC										
19...	--	--	--	--	--	3.6	.14	--	--	7500
JAN										
16...	.23	5.9	16.0	--	2.2	8.1	--	--	--	22000
16...	.23	8.2	--	.00	.00	8.2	--	--	--	31000
FEB										
17...	.17	8.2	--	.00	.00	8.2	--	--	--	29000
18...	--	--	--	--	--	7.4	.14	--	--	20000
MAR										
10...	.22	17	1.0	.26	3.2	20	--	--	--	100000
12...	.20	10	4.0	.12	3.0	22	--	--	--	110000
17...	.27	10	--	.00	.00	10	--	--	--	86000
18...	.24	11	--	--	2.2	13	--	--	--	93000
19...	.22	9.7	.00	.19	3.3	13	--	--	--	88000
24...	.43	12	--	--	5.1	17	--	--	--	100000
24...	.22	10	--	--	2.0	12	--	--	--	82000
26...	.18	8.8	--	.00	.00	8.8	--	--	--	76000
28...	.23	8.5	--	.00	.00	8.6	--	--	--	83000
28...	--	--	--	--	--	--	--	--	--	--
APR										
02...	.13	3.0	6.5	.28	1.2	4.1	--	--	--	20000
03...	--	--	--	--	--	--	--	--	--	--
03...	.08	6.4	.00	--	.57	7.0	--	--	--	31000
08...	.18	6.0	--	--	2.2	8.3	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
10...	.24	3.2	--	.00	.00	3.2	--	--	--	22000
10...	.23	2.2	8.5	.28	5.7	7.8	--	--	--	28000
10...	.23	2.2	12.2	.42	1.5	3.7	--	--	--	22000
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--

APPENDIX A

01660800

- POTOMAC R NR MORGANTOWN, MD --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	TRANS- PAR- ENCY (SECCHI DISK) (TV) (00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET) (00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET) (00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET) (00199)	LIGHT INCID. 400- 700NM INTENS. (U-ETNS /SQM/S) (00200)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)	OXYGEN DEMAND, BIOCHEM. CARBON, DAYS LAGTIME AT 20C (82135)
APR										
10...	1455	52.0	1500	---	---	---	---	---	.0	.00
15...	1520	55.0	50000	---	---	---	---	---	.0	.00
16...	1600	3.00	50000	---	---	---	---	---	.3	.92
17...	1610	55.0	50000	---	---	---	---	---	.0	.00
18...	1150	3.00	50000	---	---	---	---	---	.0	.00
19...	1206	55.0	50000	---	---	---	---	---	.0	.00
20...	1500	3.00	50000	---	---	---	---	---	.0	.00
21...	1510	55.0	50000	---	---	---	---	---	.0	.00
22...	1320	3.00	50000	---	---	---	---	---	.0	.00
23...	1424	3.00	1500	22.0	---	---	---	---	---	---
24...	1503	3.00	4000	23.0	---	---	---	---	---	---
25...	0942	3.00	1500	24.0	---	---	---	---	---	---
26...	1015	55.0	50000	---	---	---	---	---	.0	.00
MAY										
01...	1800	55.0	50000	---	---	---	---	---	.0	.00
02...	1545	3.00	50000	---	---	---	---	---	.0	.00
03...	1901	3.00	1500	---	---	---	---	---	---	---
04...	1910	3.00	2500	22.0	---	---	---	---	---	---
05...	1921	3.00	4000	24.0	---	---	---	---	---	---
06...	1201	3.00	4000	24.0	---	---	---	---	---	---
07...	1207	3.00	2500	24.0	---	---	---	---	---	---
08...	1215	55.0	50000	---	---	---	---	---	.0	.00
09...	1226	3.00	1500	24.0	---	---	---	---	---	---
10...	1057	3.00	1500	24.0	---	---	---	---	---	---
11...	1115	3.00	50000	---	---	---	---	---	.0	.00
12...	1119	3.00	2500	24.0	---	---	---	---	---	---
13...	1125	55.0	50000	---	---	---	---	---	.0	.00
14...	1126	3.00	4000	22.0	---	---	---	---	---	---
15...	0905	55.0	50000	---	---	---	---	---	.0	.00
16...	2005	---	1500	---	---	---	---	---	.0	.00
17...	2006	3.00	4000	24.0	---	---	---	---	---	---
18...	0825	3.00	1500	24.0	---	---	---	---	.0	.00
19...	0800	55.0	50000	---	---	---	---	---	.0	.00
20...	0810	3.00	50000	---	---	---	---	---	.0	.00
21...	0925	3.00	1500	28.0	---	---	---	---	.0	.00
22...	1001	3.00	2500	30.0	---	---	---	---	.0	.00
23...	1011	3.00	4000	21.0	---	---	---	---	---	---
24...	1635	55.0	50000	---	---	---	---	---	.0	.00
25...	1645	3.00	50000	---	---	---	---	---	.0	.00
26...	1910	55.0	50000	---	---	---	---	---	.0	.00

01660800 APPENDIX A POTOMAC R VR MORGANTOWN, MD ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON KI TO BASE F PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEDUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOC CI, FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER. ML) (60050)
APR 10...	.15	3.9	--	--	2.9	6.8	--	--	--	21000
10...	.23	2.7	--	--	3.8	6.4	--	--	--	28000
15...	.12	2.9	11.0	.34	2.4	5.7	--	--	--	26000
15...	.07	5.4	5.0	.15	1.8	7.2	--	--	--	22000
17...	.12	3.8	--	--	1.4	5.1	--	--	--	46000
17...	.12	3.0	14.0	--	1.5	4.7	--	--	--	31000
17...	.11	3.5	--	--	1.6	5.1	--	--	--	48000
17...	.08	3.7	7.2	.22	1.8	5.4	--	--	--	23000
22...	.18	3.1	11.4	.28	1.8	5.0	--	--	--	39000
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
28...	.12	4.1	--	--	1.5	5.6	--	--	--	28000
MAY 01...	.12	5.5	8.9	.76	.99	6.6	--	--	--	14000
06...	.19	5.7	--	.00	.00	5.7	--	--	--	24000
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	.09	5.2	--	.00	.00	5.3	--	--	--	2500
09...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
12...	.12	4.7	13.3	.44	.96	5.6	--	--	--	23000
12...	--	--	--	--	--	--	--	--	--	--
12...	.12	4.4	1.1	.12	.48	4.9	--	--	--	41000
12...	--	--	--	--	--	--	--	--	--	--
16...	.16	4.3	--	.00	.00	4.3	--	--	--	25000
19...	.20	14	--	--	7.9	22	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
20...	.12	8.3	--	.00	.00	8.3	--	--	--	28000
23...	.12	2.0	12.1	1.0	3.0	5.0	--	--	--	12000
23...	.19	2.1	--	.00	.00	2.1	--	--	--	--
27...	.09	3.2	1.1	.16	1.2	4.7	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
29...	.12	5.5	--	--	1.9	7.4	--	--	--	--
29...	.11	3.9	--	.00	.00	3.9	--	--	--	--
29...	.21	3.5	6.7	.42	.87	4.5	--	--	--	--

01560900

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LDC- ATTION, CROSS SECTION	TRANS- PAR- ENCY	LIGHT DEPTH TO 1% OF	LIGHT DEPTH TO 10% OF	LIGHT DEPTH TO 50% OF	LIGHT INCID, 400- 700NM	OXYGEN DEMAND, BIOCHEM CARBON, LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
JUN	1750	3.00 50000	--	--	--	--	--	.00	.0
03...	1800	55.0 50000	--	--	--	--	--	.00	.0
03...	1106	3.00 1500	34.0	--	--	--	--	--	--
06...	1140	3.00 50000	--	--	--	--	--	.00	.0
06...	1050	57.0 1500	--	--	--	--	--	.00	.0
11...	1117	3.00 1500	24.0	--	--	--	--	.00	.0
12...	1620	3.00 50000	--	--	--	--	--	.00	.0
12...	1900	3.00 50000	--	--	--	--	--	.00	.0
12...	1915	3.00 4000	30.0	--	--	--	--	.00	.0
16...	1725	3.00 1500	--	--	--	--	--	.00	.0
16...	1730	61.0 1500	--	--	--	--	--	.00	.0
21...	1120	3.00 50000	--	--	--	--	--	.00	.0
21...	1125	3.00 4000	30.0	--	--	--	--	.00	.0
21...	1130	55.0 50000	--	--	--	--	--	.00	.0
21...	1133	3.00 2500	30.0	--	--	--	--	.00	.0
21...	1140	3.00 1500	30.0	--	--	--	--	.00	.0
21...	1332	3.00 4000	30.0	--	--	--	--	.00	.0
21...	1342	3.00 2500	30.0	--	--	--	--	.00	.0
21...	1350	3.00 50000	--	--	--	--	--	.00	.0
25...	1340	3.00 2500	30.0	--	--	--	--	.00	.0
25...	1355	55.0 50000	--	--	--	--	--	.00	.0
25...	1404	3.00 1500	32.0	--	--	--	--	.00	.0
25...	1405	3.00 50000	--	--	--	--	--	.00	.0
25...	1420	3.00 4500	28.0	--	--	--	--	.00	.0
27...	1120	3.00 50000	--	--	--	--	--	.00	.0
27...	1121	3.00 4000	20.0	--	--	--	--	.00	.0
27...	1125	3.00 2500	24.0	--	--	--	--	.00	.0
27...	1130	55.0 50000	--	--	--	--	--	.00	.0
27...	1131	3.00 1500	26.0	--	--	--	--	.00	.0
27...	1405	3.00 1500	24.0	--	--	--	--	.00	.0
27...	1415	3.00 2500	24.0	--	--	--	--	.00	.0
27...	1420	3.00 50000	--	--	--	--	--	.00	.0
27...	1430	55.0 50000	--	--	--	--	--	.00	.0
JUL	0930	55.0 50000	--	--	--	--	--	.00	.0
09...	1430	55.0 50000	--	--	--	--	--	.00	.0
10...	1801	62.0 1500	--	--	--	--	--	1.6	.7
11...	0835	52.0 1500	--	--	--	--	--	.00	.0
18...	1615	3.00 4000	26.0	--	--	--	--	.00	.0
18...	1630	55.0 50000	--	--	--	--	--	.00	.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON KI TO BASE F PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON ACEDOUS (M3/L) (00320)	OXYGEN DEMAND, BIOCHEM NITRO3, DAYS LAGTIME AT 20C (92135)	DEOXYGE NATION KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIS ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (50050)
JUN 03....	.15	4.2	---	.00	.00	4.2	---	---	---	---
03....	.15	8.5	12.4	.34	2.0	10	---	---	---	---
06....	---	---	---	---	---	---	---	---	---	---
06....	.19	6.9	---	.00	.00	6.8	---	---	---	---
11....	.11	4.1	---	.00	.00	4.1	---	---	---	---
11....	.14	3.3	3.0	.15	1.1	4.4	---	---	---	---
12....	.29	3.4	12.1	.39	12	15	---	---	---	---
12....	.37	2.3	11.4	.32	14	16	---	---	---	---
12....	---	---	---	---	---	---	---	---	---	---
15....	.15	3.3	9.0	.22	7.5	11	---	---	---	---
16....	.09	2.4	---	.00	.00	2.4	---	---	---	---
21....	.23	2.0	4.0	.14	3.3	5.3	---	---	---	---
21....	---	---	---	---	---	---	---	---	---	---
21....	.09	4.1	5.0	.18	8.9	13	---	---	---	---
21....	---	---	---	---	---	---	---	---	---	---
21....	---	---	---	---	---	---	---	---	---	---
21....	---	---	---	---	---	---	---	---	---	---
21....	---	---	---	---	---	---	---	---	---	---
21....	---	---	---	---	---	---	---	---	---	---
21....	.29	4.4	5.2	.41	2.3	6.7	---	---	---	27000
25....	.15	4.1	4.4	.40	4.0	8.1	---	---	---	---
25....	---	---	---	---	---	---	---	---	---	---
25....	.25	7.9	11.3	.26	3.2	11	---	---	---	---
25....	.13	6.9	9.5	.22	10	17	---	---	---	---
27....	---	---	---	---	---	---	---	---	---	---
27....	---	---	---	---	---	---	---	---	---	---
27....	.15	3.2	5.2	---	---	6.9	.08	---	---	---
27....	---	---	---	---	---	---	---	---	---	---
27....	---	---	---	---	---	---	---	---	---	---
27....	---	---	---	---	---	---	---	---	---	---
27....	.14	6.5	6.5	.12	7.3	14	---	---	---	---
27....	.12	1.0	5.7	.25	11	12	---	---	---	---
JUL 09....	.08	3.5	---	.00	.00	3.5	---	---	---	---
09....	.29	2.3	11.0	.41	1.0	3.4	---	---	---	---
10....	.11	4.3	---	.00	.00	4.3	---	---	---	---
11....	.07	4.2	3.8	.23	.63	4.8	---	---	---	---
18....	---	---	---	---	---	---	---	---	---	---
18....	.11	3.9	---	.00	.00	3.9	---	---	---	---

APPENDIX A
 - POTOMAC R NR MORGANTOWN, MD --Cont.

01660800

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (SECCHI DISK IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INGID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM- ICAL LAGTIME AT 20C (H2135)
		(00003)	(00009)	(00077)	(00034)	(00198)	(00199)	(00200)	(00302)	(82135)
JUL										
	1636	3.00	2500	32.0	--	--	--	--	--	--
	1640	3.00	5000	--	--	--	--	--	.0	.00
	1656	3.00	1500	28.0	--	--	--	--	.0	.00
	0930	3.00	1500	36.0	--	--	--	--	--	--
	0904	2.00	1500	34.0	--	--	--	--	--	--
	0915	55.0	5000	--	--	--	--	--	.0	.00
	0929	2.00	2500	34.0	--	--	--	--	--	--
	0932	2.00	4000	30.0	--	--	--	--	--	--
	1018	3.00	1500	41.0	--	--	--	--	--	--
	1302	3.00	4000	18.0	--	--	--	--	--	--
	1314	3.00	2500	24.0	--	--	--	--	--	--
	1337	3.00	1500	18.0	--	--	--	--	--	--
AUG										
	1717	3.00	4000	18.0	--	--	--	--	--	--
	1740	3.00	1500	20.0	--	--	--	--	--	--
	1332	3.00	4000	24.0	--	--	--	--	--	--
	1346	3.00	2500	30.0	--	--	--	--	--	--
	1400	55.0	5000	--	--	--	--	--	.0	.00
	1408	3.00	1500	25.0	--	--	--	--	--	--
	1700	3.00	1500	24.0	4.00	--	--	195	.0	.00
	1427	1.00	1500	36.0	--	--	--	--	--	--
	1445	3.00	2500	36.0	--	--	--	--	--	--
SEP										
	1710	3.00	1500	36.0	--	--	--	--	--	--
	1725	3.00	5000	--	--	--	--	--	.0	.00
	1742	3.00	4000	27.0	--	--	--	--	--	--
	1402	3.00	1500	39.0	--	--	--	--	--	--
	1405	3.00	5000	--	--	--	--	--	.0	.00
	1415	55.0	5000	--	--	--	--	--	.0	.00
	1424	3.00	2500	42.0	--	--	--	--	--	--
	1434	3.00	4000	34.0	--	--	--	--	--	--
	1407	3.00	1500	36.0	--	--	--	--	--	--
	1431	3.00	2500	36.0	--	--	--	--	--	--
	1443	3.00	4000	36.0	--	--	--	--	--	--
	1438	3.00	4000	30.0	--	--	--	--	--	--
	1456	3.00	2500	34.0	--	--	--	--	--	--
	1506	3.00	1500	38.0	--	--	--	--	--	--
	1328	3.00	4000	30.0	--	--	--	--	--	--
	1350	55.0	5000	--	--	--	--	--	.0	.00
	1925	3.00	1500	49.0	--	--	--	--	.0	.00
	1830	3.00	1500	37.0	8.70	--	--	110	.0	.00

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEDUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. NITROG. LAGTIME AT 20C. (82135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45' UM-4F (COLS./ 100 ML) (31616)	STREP- TOC9CCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUL										
1R...	--	--	--	--	--	--	--	--	--	--
1R...	.13	5.8	--	.00	.00	5.8	--	--	--	--
1R...	--	--	--	--	--	--	--	--	--	--
22...	.20	4.1	--	.00	.00	4.1	--	--	--	<19000
25...	--	--	--	--	--	--	--	--	--	--
25...	.12	3.3	--	.00	.00	3.8	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
AUG										
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	.12	4.4	14.0	--	.46	4.8	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
18...	.35	26	--	--	7.4	34	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
SEP										
02...	--	--	--	--	--	--	--	--	--	--
02...	.19	6.5	--	.00	.00	6.5	--	--	--	3900
02...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	.13	4.5	--	.00	.00	4.5	--	--	--	9700
05...	.06	2.9	2.5	.11	1.5	4.4	--	--	--	<2700
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	.07	3.4	.00	.55	.35	3.7	--	--	--	1600
17...	--	--	--	--	--	2.8	.13	--	--	--
18...	--	--	--	--	--	3.8	.09	--	--	--

01660800 APPENDIX A
 -- POTOMAC R VR MORGANTOWN, MD --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLING DEPTH (FEET)	SAMPLE LOCATION	TRANS- PAR- ENCY (SECCHI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400-700NM	OXYGEN DEMAND, TIME-DIATE (MG/L)	OXYGEN DEMAND, DAYS LAGTIME AT 20C (82135)
SEP 25...	1737	3.00	1500	59.0	--	--	--	--	.0	.00

DATE	TIME	SAMPLING DEPTH (FEET)	SAMPLE LOCATION	TRANS- PAR- ENCY (SECCHI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400-700NM	OXYGEN DEMAND, TIME-DIATE (MG/L)	OXYGEN DEMAND, DAYS LAGTIME AT 20C (82135)
SEP 25...	1737	3.00	1500	59.0	--	--	--	--	.0	.00

DATE	TIME	SAMPLING DEPTH (FEET)	SAMPLE LOCATION	TRANS- PAR- ENCY (SECCHI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400-700NM	OXYGEN DEMAND, TIME-DIATE (MG/L)	OXYGEN DEMAND, DAYS LAGTIME AT 20C (82135)
SEP 25...	1737	3.00	1500	59.0	--	--	--	--	.0	.00

DATE	TIME	SAMPLING DEPTH (FEET)	SAMPLE LOCATION	TRANS- PAR- ENCY (SECCHI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400-700NM	OXYGEN DEMAND, TIME-DIATE (MG/L)	OXYGEN DEMAND, DAYS LAGTIME AT 20C (82135)
SEP 25...	1737	3.00	1500	59.0	--	--	--	--	.0	.00

DATE	TIME	SAMPLING DEPTH (FEET)	SAMPLE LOCATION	TRANS- PAR- ENCY (SECCHI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400-700NM	OXYGEN DEMAND, TIME-DIATE (MG/L)	OXYGEN DEMAND, DAYS LAGTIME AT 20C (82135)
SEP 25...	1737	3.00	1500	59.0	--	--	--	--	.0	.00

01660800 APPENDIX A - POTOMAC R NR MORGANTOWN, MD --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	SECTION (FT FM, L BANK)	TRANS- PAR- ENCY DISK (IV)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID, 400- 700NM INTENS, (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM CARBON, LAGTIME/ AT 20C (#2135)
		(00003)	(00009)	(00077)	(00034)	(00198)	(00199)	(00200)	(00302)	
OCT										
01...	1805	59.0	1500	--	--	--	--	--	.0	.00
09...	1120	3.00	1500	54.0	--	--	--	--	.0	.00
09...	1125	65.0	1500	--	--	--	--	--	.0	.00
14...	1530	3.00	1500	54.0	--	--	--	--	.0	.00
14...	1535	70.0	1500	--	--	--	--	--	.0	.00
21...	1735	2.00	1500	48.0	1.20	--	225	--	.0	.00
21...	1740	67.0	1500	--	--	--	--	--	.0	.00
27...	1315	3.00	1500	--	--	--	--	--	.3	-1.0
27...	1320	52.0	1500	--	--	--	--	--	.0	.00
NOV										
05...	1600	57.0	1500	--	--	--	--	--	.0	.00
05...	1605	2.00	1500	60.0	--	--	--	--	.0	.00
13...	0720	2.00	1500	46.0	--	--	--	--	.0	.00
13...	0725	67.0	1500	--	--	--	--	--	.0	.00
17...	1710	61.0	1500	--	--	--	--	--	.0	.00
28...	1430	70.0	1500	--	--	--	--	--	.0	.00
28...	1440	3.00	1500	42.0	--	--	--	--	.0	.00
DEC										
04...	1340	50.0	1500	--	--	--	--	--	.0	.00
04...	1345	3.00	1500	35.0	--	--	--	--	.0	.00
09...	1625	61.0	1500	--	--	--	--	--	.0	.00
15...	1435	2.00	1500	57.0	16.5	--	40.0	--	.0	.00
JAN										
02...	1410	3.00	1500	--	--	--	--	--	.0	.00
02...	1420	69.0	1500	--	--	--	--	--	.0	.00
22...	0910	2.00	1500	66.0	--	--	--	--	.0	.00
22...	0915	50.0	1500	--	--	--	--	--	.0	.00
FEB										
04...	1610	2.00	1500	60.0	--	--	--	--	.0	.00
04...	1615	72.0	1500	--	--	--	--	--	.0	.00
13...	1200	58.0	1500	--	--	--	--	--	.0	.00
13...	1210	3.00	1500	54.0	--	--	--	--	.0	.00
19...	1345	57.0	1500	--	--	--	--	--	.0	.00
19...	1355	3.00	1500	54.0	--	--	--	--	.0	.00
26...	1630	59.0	1500	--	--	--	--	--	.0	.00
26...	1640	3.00	1500	--	--	--	--	--	.0	.00
MAR										
03...	1630	3.00	1500	30.0	--	--	--	--	.0	.00
03...	1635	70.0	1500	--	--	--	--	--	.0	.00
09...	1145	3.00	1500	31.0	--	--	--	--	.0	.00
09...	1150	57.0	1500	--	--	--	--	--	.0	.00
18...	1050	2.00	1500	33.0	--	--	--	--	.0	.00
18...	1055	72.0	1500	--	--	--	--	--	.2	-.26
26...	1445	3.00	1500	42.0	--	--	--	--	.0	.00

01560800

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (00320)	OXYGEN DEMAND, BIOCHEM NITROG. KI TO BASE E PER DAY AT 20C (92135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (00321)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (00319)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREPT- TOCOCOCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
OCT 01...	.05	2.51	2.2	.08	1.5	4.0	--	--	--	--
09...	.09	3.0	9.2	.20	.52	3.6	--	--	--	--
09...	.09	3.3	9.0	.40	.30	3.6	--	--	--	--
14...	.12	2.4	.63	.43	.83	3.2	--	--	--	--
14...	.08	3.0	1.4	.32	.31	3.3	--	--	--	--
21...	--	--	--	--	--	4.4	.15	--	--	16000
21...	.06	3.0	2.5	.35	.70	3.8	--	--	--	3300
27...	.12	2.4	9.3	.12	.68	3.4	--	--	--	--
27...	.11	2.7	.00	.50	.28	3.0	--	--	--	--
NOV 05...	.12	2.9	--	--	.34	3.3	--	--	--	--
05...	.16	2.5	12.8	--	.50	3.1	--	--	--	--
13...	.16	2.9	4.0	.15	.40	3.2	--	--	--	--
13...	.18	4.2	--	.00	.00	4.2	--	--	--	--
17...	.12	2.3	.00	.13	1.0	3.3	--	--	--	<3600
28...	.11	2.7	6.3	.50	.80	3.5	--	--	--	--
28...	.09	3.4	--	.00	.00	3.4	--	--	--	--
DEC 04...	.18	3.3	1.7	.18	1.3	4.6	--	--	--	--
04...	.14	3.3	3.6	.33	.43	3.8	--	--	--	--
09...	.21	2.4	11.0	.19	1.5	3.9	--	--	--	--
15...	.16	4.0	13.9	.19	.74	4.7	--	--	--	6100
JAN 02...	.11	2.4	1.0	.15	.43	2.9	--	--	--	--
02...	.09	4.0	1.0	.20	.70	4.6	--	--	--	--
22...	.16	4.0	--	.00	.00	4.0	--	--	--	13000
22...	.17	4.5	--	.00	.00	4.5	--	--	--	17000
FEB 04...	.14	3.9	--	--	.92	4.8	--	--	--	9600
04...	.14	3.9	--	.00	.00	3.9	--	--	--	20000
13...	.15	3.2	--	.00	.00	3.2	--	--	--	--
13...	.09	3.5	--	.00	.00	3.6	--	--	--	--
19...	.24	6.3	--	--	.37	6.6	--	--	--	--
19...	.21	4.9	.00	.04	.96	5.9	--	--	--	--
26...	.23	7.3	--	--	.74	8.0	--	--	--	--
26...	.15	5.9	--	.00	.00	5.9	--	--	--	15000
MAR 03...	.20	6.9	--	.00	.00	6.9	--	--	--	28000
03...	13	13	--	.00	.00	13	--	--	--	42000
09...	.15	3.2	--	.00	.00	3.2	--	--	--	--
09...	.12	3.0	.00	.15	.72	3.7	--	--	--	--
18...	--	--	--	--	--	5.9	.15	--	--	--
18...	.17	5.3	2.0	.13	.91	6.4	--	--	--	--
26...	.17	3.4	1.4	.12	2.0	5.4	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM) L RANKU (00009)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET) (00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET) (00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET) (00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S) (00200)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)	OXYGEN DEMAND, BIOCHEM- ICAL LAGTIME AT 20C (HOURS) (82135)
APR	02...	56.0	1500	---	---	---	---	---	.0	.00
	07...	3.00	1500	18.0	---	---	---	---	.0	.00
	1510	2.00	1500	19.0	6.50	---	1800	---	.0	.00
	1515	58.0	1500	---	---	---	---	---	.0	.00
	1325	3.00	1500	---	---	---	---	---	.0	.00
	23...	62.0	1500	---	---	---	---	---	.0	.00
	1330	2.00	1500	---	---	---	---	---	.0	.00
	30...	59.0	1500	---	---	---	---	---	-1.3	.93
MAY	04...	3.00	1500	24.0	---	---	---	---	.0	.00
	1355	69.0	1500	---	---	---	---	---	.0	.00
	11...	58.0	1500	---	---	---	---	---	.0	.00
	1230	2.00	1500	36.0	---	---	---	---	.0	.00
	1500	2.00	1500	36.0	7.50	---	110	---	.0	.00
	1335	57.0	1500	---	---	---	---	---	.0	.00
	1345	2.00	1500	36.0	---	---	---	---	.0	.00
JUN	01...	78.0	1500	---	---	---	---	---	.0	.00
	1430	2.00	1500	36.0	---	---	---	---	.0	.00
	09...	64.0	1500	---	---	---	---	---	.0	.00
	1125	2.00	1500	24.0	---	---	---	---	.0	.00
	1450	2.00	1500	24.0	---	---	---	---	.0	.00
	15...	58.0	1500	---	---	---	---	---	.0	.00
	25...	2.00	1500	30.0	---	---	---	---	.0	.00
	1140	2.00	1500	30.0	4.90	---	1400	---	.0	.00
	1900	2.00	1500	---	---	---	---	---	.0	.00
	30...	58.0	1500	---	---	---	---	---	.0	.00
JUL	07...	59.0	1500	---	---	---	---	---	.0	.00
	1630	2.00	1500	24.0	---	---	---	---	.0	.00
	1315	2.00	1500	26.0	8.50	---	1800	---	.0	.00
	1320	78.0	1500	---	---	---	---	---	.0	.00
	1045	53.0	1500	---	---	---	---	---	.0	.00
	1055	2.00	1500	32.0	---	---	---	---	.0	.00
	1830	1.60	1500	---	---	---	---	---	.0	.00
	1935	57.0	1500	---	---	---	---	---	.0	.00
AUG	07...	2.00	1500	34.0	---	---	---	---	.0	.00
	1145	56.0	1500	---	---	---	---	---	.0	.00
	14...	2.00	1500	30.0	---	---	---	---	.0	.00
	17...	3.00	1500	31.0	---	---	---	---	.0	.00
	28...	55.0	1500	---	---	---	---	---	.0	.00
	1020	3.00	1500	26.0	---	---	---	---	.0	.00
	1030	3.00	1500	---	---	---	---	---	.0	.00
SEP	01...	58.0	1500	---	---	---	---	---	.0	.00

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. LAGTIME AT 20C (82136)	DEOXYGE NATION K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, UNINHIB ULT. (MG/L) (00319)	JEQXY- SEVA- TION CON. STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45' UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCOCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
APR 02....	.17	5.2	--	.00	.00	5.2	--	--	--	<6100
07....	.09	2.4	--	--	2.8	3.2	--	--	--	--
15....	.14	2.5	--	--	.90	3.4	--	--	--	<7300
15....	.14	2.3	--	--	1.8	4.1	--	--	--	<10000
23....	.22	3.9	--	.00	.00	3.9	--	--	--	22000
23....	.16	5.4	--	--	1.4	6.8	--	--	--	31000
30....	.12	6.2	5.0	.45	.80	7.0	--	--	--	31000
30....	.16	9.7	--	.00	.00	9.7	--	--	--	32000
MAY 04....	.15	6.0	--	.00	.00	6.0	--	--	--	<27000
04....	.13	6.8	--	.00	.00	6.8	--	--	--	<30000
11....	.16	4.3	13.1	.26	1.2	5.5	--	--	--	<16000
11....	.17	4.9	11.9	--	1.9	6.8	--	--	--	<19000
19....	--	--	--	--	--	--	--	--	--	42000
28....	.12	3.8	--	.00	.00	3.8	--	--	--	5900
28....	.19	6.4	10.3	.14	1.3	7.6	--	--	--	21000
JUN 01....	.11	3.8	--	.00	.00	3.8	--	--	--	<8400
01....	.19	5.0	12.0	.13	1.9	6.8	--	--	--	<11000
09....	.11	3.4	--	.00	.00	3.4	--	--	--	--
09....	.23	8.4	5.1	.12	1.9	10	--	--	--	--
15....	--	--	--	--	--	--	--	--	--	--
25....	.14	5.1	--	.00	.00	5.1	--	--	--	--
25....	.15	8.5	.00	.23	1.3	9.8	--	--	--	--
30....	--	--	--	--	--	6.8	.14	--	--	<24000
30....	.09	7.0	--	--	.94	8.0	--	--	--	3900
JUL 07....	.13	4.3	10.2	.18	1.7	6.0	--	--	--	4700
07....	.09	10	--	.00	.00	10	--	--	--	19000
15....	.11	4.9	--	.00	.00	4.9	--	--	--	--
15....	.08	2.9	--	--	.78	3.7	--	--	--	--
24....	.14	2.5	10.4	.10	2.4	4.9	--	--	--	>1500
24....	.21	5.4	--	.00	.00	5.4	--	--	--	>3700
27....	.14	3.0	9.1	.36	1.3	4.3	--	--	--	>1500
27....	.17	1.3	9.0	.13	1.4	2.7	--	--	--	>780
AUG 07....	.17	1.9	11.3	.24	1.0	2.9	--	--	--	--
14....	.09	2.1	.36	.05	1.7	3.8	--	--	--	--
14....	.18	3.5	--	--	--	--	--	--	--	--
17....	.11	2.7	--	--	--	2.7	--	--	--	>1200
28....	.07	2.5	--	.00	.00	2.5	--	--	--	--
28....	.07	2.4	--	.00	.00	2.4	--	--	--	--
SEP 02....	.17	2.9	--	.00	.00	2.8	--	--	--	--

APPENDIX A
 POTOMAC R VR MORGANTOWN, MD --Cont.

01660800

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT FV, L BANK)	TRANS- PAR- ENCY (DISK (IV))	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTEVS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM CARBON, LAGTIME DAYS AT 20C (82135)
SEP 10...	1220	3.00	(00009)	--	--	--	--	--	.0	.00
10...	1225	57.0		--	--	--	--	--	.5	2.3
10...	1232	1.60		32.0	--	--	--	--	--	--
17...	1350	3.00		--	--	--	--	--	.0	.00
17...	1351	1.00		24.0	--	--	--	--	--	--
17...	1400	62.0		--	--	--	--	--	.0	.00
21...	1548	1.60		26.0	--	--	--	--	--	--
21...	1550	3.00		--	--	--	--	--	.0	.00
21...	1555	67.0		--	--	--	--	--	.0	.00

DATE	TIME	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (92134)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MG/L)	OXYGEN DEMAND, BIOCHEM NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L)	OXYGEN DEMAND, BIOCHEM KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45' UM-WF (COLS./ 100 ML)	STREP- TOCDDCI FECAL, KF AGAR (COLS. PER 100 ML)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)
SEP 10...	.10	2.3	--	--	.57	2.9	--	--	--	--
10...	.08	3.2	.00	.00	.00	3.2	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
17...	.17	1.4	.14	1.5	2.9	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	.06	3.3	.00	.00	3.3	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	.12	1.8	.11	.75	2.6	--	--	--	--	>1200
21...	.10	1.9	.10	1.1	3.0	--	--	--	--	>780

APPENDIX A
381516076503000 - POTOMAC RIVER AT COBR ISLAND

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAM- DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT FV)	TRANS- PAR- ENCY (SECCI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SRM/S)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
JUL	1706	3.00	6600	18.0	--	--	--	--	--	--
	1600	3.00	21500	44.0	--	--	--	--	--	--
	1651	1.60	6500	50.0	--	--	--	--	--	--
AUG	01...	1.60	6600	48.0	--	--	--	--	--	--
SEP	13...	3.00	6600	45.0	--	--	--	--	0.00	--
	13...	3.00	19300	39.0	--	--	--	--	--	--

DATE	TIME	OXYGEN DEMAND, BIOCHEM ULIT. CARBON- ACEOUS (MG/L)	OXYGEN DEMAND, BIOCHEM NITROG. DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION CARRON KI TO BASE E PER DAY AT 20C (82133)	DEOXYGE NATION KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	DEOXYGE NATION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCCOCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUL	20...	--	--	--	--	--	--	--	--	--	--
	31...	--	--	--	--	--	--	--	--	--	--
	31...	--	--	--	--	--	--	--	--	--	--
AUG	01...	--	--	--	--	--	--	--	--	--	--
SEP	13...	--	--	--	--	--	--	0.11	--	--	58000
	13...	--	--	--	--	--	--	--	--	--	58000

APPENDIX A
 381516076503000 - POTOMAC RIVER AT CORB ISLAND ---Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (SPECI DISK (IV)	LIGHT DEPT- TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM CARBON, LAGTIME DAYS AT 20C (82135)
		(000003)	(000009)	(000077)	(000034)	(00198)	(00199)	(00200)	(00302)	(00302)
OCT										
07...	0850	3.00	6600	40.0	--	--	--	--	.0	.00
07...	0935	3.00	21500	42.0	--	--	--	--	.0	.00
JAN										
16...	1835	19.0	20100	---	--	--	--	--	.0	.00
16...	1840	3.00	20100	---	--	--	--	--	.0	.00
17...	0915	3.00	20100	---	--	--	--	--	.0	.00
17...	0917	1.00	20100	30.0	--	--	--	--	--	---
FEB										
18...	1505	3.00	20100	24.0	--	--	--	--	.0	.00
18...	1530	23.0	6600	---	--	--	--	--	.0	.00
18...	1535	3.00	6600	48.0	--	--	--	--	.0	.00
20...	1740	17.0	6600	---	--	--	--	--	.0	.00
20...	1820	15.0	20100	---	--	--	--	--	.0	.00
MAR										
17...	1326	1.00	20100	36.0	--	--	--	--	--	---
17...	1345	3.00	6600	50.0	--	--	--	--	.0	.00
28...	1550	19.0	6600	---	--	--	--	--	.0	.00
28...	1555	3.00	6600	---	--	--	--	--	.0	.00
28...	1615	3.00	20100	40.0	--	--	--	--	.0	.00
APR										
03...	1340	3.00	20100	25.0	--	--	--	--	.0	.00
03...	1345	18.0	20100	---	--	--	--	--	.0	.00
03...	1405	3.00	6600	29.0	--	--	--	--	.0	.00
10...	1330	3.00	6600	50.0	--	--	--	--	.0	.00
10...	1405	17.0	20100	---	--	--	--	--	.0	.00
16...	1400	3.00	6600	---	--	--	--	--	.0	.00
24...	1020	3.00	6500	18.0	--	--	--	--	.0	.00
24...	1025	25.0	6600	---	--	--	--	--	.0	.00
24...	1105	3.00	20100	48.0	--	--	--	--	.0	.00
MAY										
09...	1342	3.00	6600	36.0	--	--	--	--	--	---
09...	1426	3.00	20100	30.0	--	--	--	--	--	---
20...	1000	3.00	6600	30.0	--	--	--	--	.0	.00
20...	1045	18.0	20100	---	--	--	--	--	.0	.00
20...	1050	3.00	20100	42.0	--	--	--	--	.0	.00
22...	1600	3.00	5500	12.0	--	--	--	--	.0	.00
JUN										
09...	1034	3.00	6600	35.0	--	--	--	--	--	---
09...	1102	3.00	20100	32.0	--	--	--	--	--	---
16...	1540	3.00	6600	33.0	--	--	--	--	.0	.00
16...	1545	24.0	6600	---	--	--	--	--	.0	.00
16...	1615	3.00	20100	36.0	--	--	--	--	.0	.00
JUL										
09...	1055	3.00	6600	---	--	--	--	--	.0	.00

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (43/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
OCT										
07...	--	--	--	--	--	3.2	.12	--	--	<15000
07...	--	--	--	--	--	3.0	.20	--	--	21000
JAN										
16...	.19	6.4	7.4	.15	1.1	7.5	--	--	--	35000
16...	.18	5.0	--	.00	.00	5.0	--	--	--	65000
17...	.25	5.1	11.0	.28	1.5	6.6	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
FEB										
18...	--	--	--	--	--	7.1	.18	--	--	36000
18...	.11	4.5	.91	1.3	.50	5.1	--	--	--	19000
18...	--	--	--	--	--	4.7	.11	--	--	13000
20...	.22	5.5	12.0	.24	1.4	7.0	--	--	--	32000
20...	.22	6.4	13.0	.34	.83	7.3	--	--	--	20000
MAR										
17...	--	--	--	--	--	--	--	--	--	--
17...	.20	3.4	.00	.50	.75	4.2	--	--	--	--
28...	.23	8.5	10.5	.15	4.8	13	--	--	--	50000
28...	.08	5.5	--	.00	.00	5.6	--	--	--	22000
28...	--	--	--	--	--	4.4	.16	--	--	34000
APR										
03...	--	--	--	--	--	7.8	.23	--	--	44000
03...	.19	5.3	--	.00	.00	5.3	--	--	--	23000
03...	--	--	--	--	--	8.5	.16	--	--	36000
10...	--	--	--	--	--	4.8	.11	--	--	13000
10...	.11	5.7	--	.00	.00	5.7	--	--	--	21000
16...	.15	3.2	11.0	.15	2.0	5.2	--	--	--	18000
24...	--	--	--	--	--	4.6	.13	--	--	26000
24...	.13	4.5	--	.00	.00	4.5	--	--	--	26000
24...	--	--	--	--	--	6.3	.13	--	--	33000
MAY										
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
20...	.15	6.4	--	--	--	6.4	--	--	--	--
20...	.05	4.5	12.0	1.3	.70	3.2	--	--	--	--
20...	.19	3.5	11.8	.25	.88	4.5	--	--	--	39000
22...	--	--	--	--	--	--	--	--	--	--
JUN										
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
16...	.19	5.4	12.0	.42	1.8	7.1	--	--	--	29000
16...	.27	1.2	7.7	.23	5.0	6.3	--	--	--	--
16...	.17	5.4	--	--	--	5.4	--	--	--	--
JUL										
09...	.15	9.4	--	.00	.00	9.4	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLING DEPTH (FEET)	SAMPLING DEPTH (M)	SAMPLE LOCATION	TRANS-PAR-ENCY	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, (MG/L)	BIOCHEM. CARBON. DAYS LAGTIME AT 20C (82135)
		(00003)	(00003)	(00003)	(00077)	(00034)	(00198)	(00199)	(00200)	(00302)	
OCT											
	1840	2.00	6600		52.0	8.00	--	--	3.00	.0	.00
	0820	2.00	6600		55.0	18.0	--	--	130	.0	.00
	0825	18.0	6600		--	--	--	--	--	.0	.00
	0845	2.00	20100		50.0	18.0	--	--	350	.0	.00
NOV											
	1540	2.00	6600		50.0	18.0	--	--	40.0	.0	.00
	1605	2.00	20100		48.0	8.00	--	--	10.0	.0	.00
	1610	17.0	20100		--	--	--	--	--	.0	.00
DEC											
	1320	2.00	6600		78.0	24.3	--	--	120	.0	.00
	1325	22.0	6600		--	--	--	--	--	.0	.00
	1350	2.00	20100		48.0	18.5	--	--	120	.0	.00
	1355	15.0	20100		--	--	--	--	--	.0	.00
JAN											
	1110	2.00	6600		98.0	--	--	--	--	.0	.00
	1115	24.0	6600		--	--	--	--	--	.0	.00
	1125	2.00	20100		90.0	--	--	--	--	.0	.00
	1130	15.0	20100		--	--	--	--	--	.0	.00
FEB											
	1715	18.0	20100		--	--	--	--	--	.0	.00
	1720	2.00	20100		72.0	--	--	--	--	.0	.00
	0830	2.00	6600		50.0	--	--	--	--	.0	.00
MAR											
	1445	3.00	6600		48.0	--	--	--	--	.0	.00
	1450	23.0	6600		--	--	--	--	--	.0	.00
	03.00	3.00	20100		54.0	--	--	--	1200	.0	.00
	1150	2.00	20100		31.0	--	--	--	--	.0	.00
	1210	2.00	6600		35.0	--	--	--	--	.0	.00
APR											
	02.00	19.0	6600		--	--	--	--	--	.0	.00
	1810	3.00	20100		42.0	--	--	--	--	.0	.00
	15.00	2.00	20100		29.0	7.40	--	--	1200	.0	.00
	15.00	18.0	6600		--	--	--	--	--	.0	.00
	15.00	2.00	6600		38.0	9.30	--	--	850	.0	.00
	16.00	2.00	6600		48.0	10.0	--	--	1000	.0	.00
MAY											
	1600	2.00	20100		48.0	11.0	--	--	190	.0	.00
	1630	29.0	6600		--	--	--	--	--	.0	.00
	19.00	2.00	6600		48.0	11.0	--	--	185	.0	.00
	0725	2.00	6600		48.0	12.5	--	--	140	.0	.00
	1450	2.00	6600		51.0	--	--	--	--	.0	.00
JUN											
	1328	2.00	20100		50.0	--	--	--	--	.0	.00
	1355	2.00	6600		56.0	13.0	--	--	--	.0	.00

381516076503000 - POTOMAC RIVER AT CORR ISLAND ---Cont.

APPENDIX A

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEDYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. K1 TO BASE E LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00319)	DEOXY- GEVA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
OCT										
21...	.14	6.4	--	.00	.00	6.4	--	--	--	<8300
22...	.10	4.3	--	--	--	4.3	.10	--	--	<12000
22...	.06	4.7	2.0	.50	1.0	5.7	--	--	--	11000
22...	.14	3.5	.00	.21	.81	4.3	--	--	--	<13000
NOV										
17...	.27	3.2	5.4	.11	1.6	4.9	--	--	--	14000
17...	.17	5.2	--	--	--	5.2	.17	--	--	33000
17...	.14	4.0	--	.00	.00	4.0	--	--	--	18000
DEC										
15...	.08	5.0	--	--	--	5.0	.08	--	--	5300
15...	.09	5.1	--	--	--	5.1	.09	--	--	8800
15...	.09	5.1	1.0	.16	1.0	6.1	--	--	--	7300
15...	.10	5.4	--	--	--	5.4	.10	--	--	9000
JAN										
22...	.12	3.4	--	.00	.00	3.4	--	--	--	9200
22...	.12	4.1	9.5	.45	.43	4.6	--	--	--	<19000
22...	.12	3.2	12.4	.72	.48	3.7	--	--	--	<17000
22...	.13	3.8	12.2	.93	.61	4.4	--	--	--	18000
FEB										
04...	.14	3.5	.00	.30	.72	4.2	--	--	--	22000
04...	.17	3.3	--	.00	.00	3.3	--	--	--	11000
05...	--	--	--	--	--	3.4	.16	--	--	10000
MAR										
03...	.14	4.0	--	.00	.00	4.0	--	--	--	12000
03...	.17	4.0	.00	.17	.39	4.4	--	--	--	13000
03...	--	--	--	--	--	4.8	.17	--	--	22000
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
APR										
02...	.21	5.5	4.1	.19	1.2	6.7	--	--	--	<27000
02...	.20	3.7	--	--	.53	4.2	--	--	--	--
15...	.13	3.0	3.0	.29	.86	3.9	--	--	--	7700
15...	.19	6.4	11.1	.27	2.6	9.0	--	--	--	36000
15...	--	--	--	--	--	9.7	.15	--	--	<22000
16...	.27	3.3	12.5	.41	.98	4.3	--	--	--	6300
MAY										
19...	--	--	--	--	--	8.7	.08	--	--	39000
19...	.17	9.5	--	.00	.00	9.6	--	--	--	21000
19...	.12	6.8	7.4	.27	1.0	7.9	--	--	--	46000
20...	--	--	--	--	--	7.6	.09	--	--	46000
28...	--	--	--	--	--	--	--	--	--	--
JUN										
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	5.4	.11	--	--	--

381516076503000 - POTOMAC RIVER AT COBB ISLAND --Cont.

APPENDIX A

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOCATION	SAMPLING DEPTH (FEET)	TRANS-PAR-ENCY (SECCHI DISK (IN))	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME-DIATE (MG/L) (00302)	OXYGEN DEMAND, BIOCHEM-CARBON. DAYS LAGTIME AT 20C (R2135)
JUN	09:00	3.00 20100	48.0	--	--	--	--	--	--	--
	20:00	2.00 6600	34.0	--	--	--	--	--	0.00	0.00
	20:25	24.0 6600	--	--	--	--	--	--	0.00	0.00
JUL	10:05	2.00 6600	--	10.0	--	--	2200	--	--	--
	10:35	2.00 20100	36.0	10.5	--	--	750	--	0.00	0.00
	10:40	22.0 20100	--	--	--	--	--	--	0.00	0.00
	11:00	2.00 6600	42.0	10.0	--	--	1500	--	0.00	0.00
	11:15	2.00 20100	36.0	9.50	--	--	2000	--	0.00	0.00
	11:15	18.0 20100	--	--	--	--	--	--	0.00	0.00
	17:09	1.60 6600	36.0	19.5	--	--	1500	--	--	--
	17:10	3.00 6600	--	--	--	--	--	--	0.00	0.00
	17:34	1.60 20100	42.0	14.8	--	--	1100	--	--	--
	17:40	16.0 20100	--	--	--	--	--	--	0.00	0.00
AUG	14:23	1.60 20100	44.0	--	--	--	--	--	--	--
	17:00	16.0 20100	--	--	--	--	--	--	0.00	0.00
	07:39	1.60 6600	60.0	--	--	--	--	--	--	--
	07:45	27.0 6600	--	--	--	--	--	--	0.00	0.00
SEP	14:36	1.60 6600	60.0	--	--	--	--	--	--	--
	15:05	3.00 20100	--	--	--	--	--	--	0.00	0.00
	21:00	1.60 20100	48.0	--	--	--	--	--	--	--

381516076503000 - POTOMAC RIVER AT COBB ISLAND --Cont.

APPENDIX A

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARBON K1 TO BASE F PER DAY AT 20C (82133)	OXYGEN DEMAND BIOCHEM ULT. CARBON- ACEOUS (M3/L) (00320)	OXYGEN DEMAND BIOCHEM NITROS. DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION VITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND BIOCHEM NITROS. ULT. (MG/L) (00321)	OXYGEN DEMAND BIOCHEM UNINHIB ULT. (MG/L) (00319)	JEQY- SEMA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOC FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUN 09...	---	---	---	---	---	---	---	---	---	---
30...	.16	5.3	9.4	.30	.99	6.3	---	---	---	20000
30...	.20	2.4	10.4	.49	1.0	3.4	---	---	---	<2400
JUL 01...	---	---	---	---	---	---	---	---	---	36000
01...	---	---	---	---	---	5.6	.15	---	---	21000
01...	.18	4.7	---	.00	.00	4.7	---	---	---	17000
15...	---	---	---	---	---	6.1	.12	---	---	---
15...	---	---	---	---	---	5.1	.09	---	---	22000
15...	.11	4.9	---	.00	.00	4.8	.08	---	---	---
27...	---	---	---	---	---	---	---	---	---	---
27...	.15	5.9	5.2	.16	1.4	7.3	---	---	---	>12000
27...	---	---	---	---	---	---	---	---	---	---
27...	.12	4.9	---	.00	.00	4.9	---	---	---	>12000
AUG 17...	---	---	---	---	---	---	---	---	---	---
17...	.14	5.2	1.0	.09	2.9	8.0	---	---	---	>4400
19...	---	---	---	---	---	---	---	---	---	---
19...	.19	3.1	---	.00	.00	3.1	---	---	---	---
SEP 21...	---	---	---	---	---	---	---	---	---	---
21...	.18	5.2	5.0	.09	1.5	6.7	---	---	---	>7100
21...	---	---	---	---	---	---	---	---	---	---

APPENDIX A

01661475 - POTOMAC R AT PINEY POINT, MD

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAMPLING DEPTH (FEET)	SAMPLING SECTION (FIT F/L BANK)	LOCATION CROSS SECTION	TRANS- PAR- ENCY (SECTI DISK) (IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (00302)
JUL											
20...	1530	3.00	300		18.0	--	--	--	--	--	--
31...	1830	3.00	500		58.0	--	--	--	--	--	--
31...	1901	3.00	6300		72.0	--	--	--	--	--	--
31...	1915	3.00	10800		68.0	--	--	--	--	--	--
31...	1936	3.00	15900		55.0	--	--	--	--	--	--
AUG											
01...	1442	3.00	500		52.0	--	--	--	--	--	--

DATE	TIME	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUL											
20...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
AUG											
01...	--	--	--	--	--	--	--	--	--	--	--

APPENDIX A
 - POTOMAC R AT PINEY POINT, MD --Cont.

01661475

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT FV L BANK)	TRANS- PAR- ENCY (DISK IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMVE- DIATE (MG/L) (00302)
OCT										
07...	1105	3.00	10800	41.0	--	--	--	--	--	--
07...	1205	3.00	500	44.0	--	--	--	--	-.79	--
DEC										
18...	1225	3.00	10800	24.0	--	--	--	--	.00	.0
JAN										
17...	1035	3.00	500	102	--	--	--	--	.00	.0
17...	1120	37.0	10800	--	--	--	--	--	.00	.0
17...	1125	3.00	10800	--	--	--	--	--	.00	.0
17...	1126	1.00	10800	108	--	--	--	--	--	--
FEB										
18...	1300	32.0	10800	--	--	--	--	--	.00	.0
18...	1305	3.00	10800	49.0	--	--	--	--	.00	.0
18...	1345	35.0	500	--	--	--	--	--	.00	.0
18...	1350	3.00	500	54.0	--	--	--	--	.00	.0
MAR										
17...	1120	34.0	10800	--	--	--	--	--	.00	.0
17...	1125	3.00	10800	48.0	--	--	--	--	-1.8	--
17...	1211	1.00	500	50.0	--	--	--	--	--	--
APR										
03...	1655	3.00	500	78.0	--	--	--	--	.00	.0
03...	1720	3.00	10800	66.0	--	--	--	--	.00	.0
03...	1725	32.0	10800	--	--	--	--	--	.00	.0
10...	1505	3.00	10800	72.0	--	--	--	--	.00	.0
10...	1540	3.00	500	78.0	--	--	--	--	.00	.0
10...	1545	57.0	500	--	--	--	--	--	-.60	.0
24...	1215	50.0	500	--	--	--	--	--	.00	.0
24...	1220	3.00	500	36.0	--	--	--	--	.00	.0
24...	1245	3.00	10800	37.0	--	--	--	--	.00	.0
28...	1250	3.00	10800	--	--	--	--	--	.00	.0
MAY										
09...	1635	3.00	10800	30.0	--	--	--	--	.00	.0
12...	1320	3.00	10800	46.0	--	--	--	--	.00	.0
12...	1350	59.0	500	--	--	--	--	--	.00	.0
12...	1400	3.00	500	46.0	--	--	--	--	.00	.0
22...	1430	3.00	500	48.0	--	--	--	--	.00	.0
22...	1435	51.0	500	--	--	--	--	--	.00	.0
22...	1510	3.00	10800	42.0	--	--	--	--	.00	.0
27...	1125	3.00	10800	48.0	--	--	--	--	.00	.0
JUN										
09...	1158	3.00	15900	36.0	--	--	--	--	--	--
09...	1220	3.00	10800	44.0	--	--	--	--	--	--
09...	1245	3.00	4500	38.0	--	--	--	--	--	--
10...	1315	3.00	4500	44.0	--	--	--	--	.00	.0
10...	1320	56.0	4500	--	--	--	--	--	.00	.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MG/L) AT 20C (00320)	OXYGEN DEMAND, BIOCHEM NITROS, DAYS LASTIME AT 20C (82135)	DEOXYGE NATION NITROS, K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
OCT 07...	--	--	--	--	--	--	--	--	--	27000
OCT 07...	--	--	--	--	--	4.4	.20	--	--	--
DEC 18...	--	--	--	--	--	7.2	.14	--	--	19000
JAN 17...	.16	3.8	16.0	--	--	4.5	--	--	--	6400
JAN 17...	.16	4.4	12.0	.21	.70	5.1	--	--	--	9600
JAN 17...	.21	4.2	--	.00	.00	4.2	--	--	--	<9000
JAN 17...	--	--	--	--	--	--	--	--	--	--
FEB 18...	.12	3.6	15.0	.39	2.0	5.6	--	--	--	11000
FEB 18...	.14	2.1	14.0	.15	1.3	3.4	--	--	--	6600
FEB 18...	.15	2.9	12.0	.27	1.2	4.1	--	--	--	19000
FEB 18...	.15	3.1	13.0	.50	.80	3.9	--	--	--	6900
MAR 17...	.19	3.1	.00	.20	1.1	4.2	--	--	--	24000
MAR 17...	--	--	--	--	--	3.6	.12	--	--	15000
MAR 17...	--	--	--	--	--	--	--	--	--	--
APR 03...	--	--	--	--	--	4.1	.08	--	--	13000
APR 03...	--	--	--	--	--	5.0	.13	--	--	8500
APR 03...	.16	5.2	.00	1.8	.55	5.7	--	--	--	15000
APR 10...	--	--	--	--	--	6.6	.05	--	--	19000
APR 10...	--	--	--	--	--	4.5	.08	--	--	20000
APR 10...	.09	3.5	--	.00	.00	3.8	--	--	--	15000
APR 24...	.10	9.0	5.2	.17	2.7	12	--	--	--	36000
APR 24...	--	--	--	--	--	12	.13	--	--	75000
APR 24...	.09	11	--	--	.87	12	--	--	--	85000
APR 28...	.15	8.3	--	.00	.00	8.3	--	--	--	45000
MAY 09...	--	--	--	--	--	8.9	.12	--	--	50000
MAY 12...	.27	5.4	4.9	.10	7.0	12	--	--	--	57000
MAY 12...	.08	5.8	--	.00	.00	5.8	--	--	--	45000
MAY 12...	.37	3.6	5.0	.16	4.9	8.5	--	--	--	39000
MAY 22...	--	--	--	--	--	7.8	.13	--	--	--
MAY 22...	.07	8.7	--	.00	.00	8.7	--	--	--	--
MAY 22...	.21	15	--	.00	.00	15	--	--	--	--
MAY 27...	.17	7.5	--	.00	.00	7.5	--	--	--	--
JUN 09...	--	--	--	--	--	--	--	--	--	--
JUN 09...	--	--	--	--	--	--	--	--	--	--
JUN 09...	--	--	--	--	--	--	--	--	--	--
JUN 10...	--	--	--	--	--	6.1	.16	--	--	--
JUN 10...	.29	2.5	--	--	9.3	12	--	--	--	--

01661475 APPENDIX A
 - POTOMAC R AT PINEY POINT, MD --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FIT FM L BANK)	TRANS- PAR- ENCY (SECCI DISK) (IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (82135)
JUN										
10...	1400	3.00	10800	32.0	--	--	--	--	.0	.00
16...	1315	3.00	10800	42.0	--	--	--	--	.0	.00
16...	1355	3.00	4500	39.0	--	--	--	--	1.1	-1.8
16...	1400	72.0	4500	--	--	--	--	--	.0	.00
JUL										
01...	0520	3.00	15900	--	--	--	--	--	.0	.00
09...	1250	26.0	10800	--	--	--	--	--	1.1	1.7
10...	1420	3.00	10800	--	--	--	--	--	.0	.00
22...	1250	3.00	10800	56.0	--	--	--	--	.0	.00
22...	1255	35.0	10800	--	--	--	--	--	.0	.00
22...	1320	3.00	4500	66.0	--	--	--	--	.0	.00
25...	1220	3.00	4500	55.0	--	--	--	--	.0	.00
31...	1640	3.00	10800	30.0	--	--	--	--	.0	.00
31...	1700	3.00	4500	30.0	--	--	--	--	--	--
AUG										
14...	1600	3.00	4500	54.0	--	--	--	--	.0	.00
18...	1325	3.00	10800	58.0	12.8	--	1200	--	.0	.00
18...	1355	3.00	4500	42.0	20.0	--	900	--	--	--
SEP										
02...	1330	3.00	4500	78.0	--	--	--	--	.0	.00
02...	1435	3.00	10800	--	--	--	--	--	.0	.00
05...	1110	3.00	4500	70.0	--	--	--	--	.0	.00
05...	1135	35.0	10800	--	--	--	--	--	.0	.00
05...	1145	3.00	10800	58.0	--	--	--	--	.0	.00
09...	1135	3.00	10800	60.0	--	--	--	--	.0	.00
09...	1145	3.00	4500	96.0	--	--	--	--	.0	.00
09...	1155	50.0	4500	--	--	--	--	--	.0	.00
11...	1145	3.00	10800	72.0	--	--	--	--	.0	.00
11...	1225	3.00	4500	96.0	--	--	--	--	.0	.00
15...	0850	3.00	4500	114	--	--	--	--	.0	.00
15...	0900	72.0	4500	--	--	--	--	--	.0	.00
15...	0920	3.00	10800	102	--	--	--	--	.0	.00
18...	1030	3.00	4500	77.0	18.5	--	430	--	.0	.00
18...	1035	57.0	4500	--	--	--	--	--	.0	.00
18...	1105	3.00	10800	94.0	23.0	--	400	--	--	--
25...	1334	56.0	4500	--	--	--	--	--	.0	.00
25...	1342	3.00	4500	74.0	--	--	--	--	.0	.00
25...	1405	3.00	10800	63.0	--	--	--	--	.0	.00

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM JLT. CARBON ACFOUS (MS/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. DAYS LAGTIME AT 20C. (82135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROS. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT KI TO BASE E (00321)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31516)	STREP- TOCCECI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUN 10...	.13	5.4	.00	.10	1.0	6.4	--	--	--	--
16...	.23	3.0	9.9	.41	1.8	4.7	--	--	--	--
16...	.07	7.9	11.5	.46	11	20	--	--	--	--
16...	.11	3.2	13.0	.97	1.4	4.6	--	--	--	6400
JUL 01...	.23	3.9	7.5	.19	17	21	--	--	--	--
09...	.19	3.0	--	--	.82	3.8	--	--	--	--
10...	.16	9.9	--	.00	.00	9.9	--	--	--	--
22...	--	--	--	--	--	5.6	.09	--	--	26000
22...	.15	3.5	.00	.22	.44	4.0	--	--	--	7900
22...	.19	5.5	--	.00	.00	4.6	.13	--	--	21000
25...	--	--	--	--	--	5.5	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
AUG 14...	--	--	--	--	--	6.4	.09	--	--	--
18...	--	--	--	--	--	7.7	.21	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
SEP 02...	.15	4.0	--	--	.61	4.6	--	--	--	2000
02...	.15	4.9	--	.00	.00	4.9	--	--	--	2900
05...	--	--	--	--	--	4.8	.15	--	--	<6100
05...	.14	2.5	6.2	.48	.97	3.4	--	--	--	--
05...	--	--	--	--	--	18	.20	--	--	--
09...	--	--	--	--	--	5.5	.13	--	--	--
09...	--	--	--	--	--	3.9	.11	--	--	--
09...	.18	2.7	10.2	.18	1.4	4.1	--	--	--	--
11...	--	--	--	--	--	4.1	.13	--	--	--
11...	--	--	--	--	--	3.5	.16	--	--	--
15...	--	--	--	--	--	5.2	.10	--	--	--
15...	.18	6.5	--	.00	.00	6.5	--	--	--	4500
15...	--	--	--	--	--	4.5	.14	--	--	200
18...	--	--	--	--	--	4.2	.20	--	--	4700
18...	.09	3.2	.00	.47	.60	3.8	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
18...	.08	2.9	2.3	.23	.85	3.7	--	--	--	--
25...	--	--	--	--	--	5.6	.14	--	--	--
25...	.27	5.4	14.0	--	--	6.0	.22	--	--	--

01661475 APPENDIX A - POTOMAC R AT PINEY POINT, MD --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT F4, L BANK)	TRANS- PAR- ENCY (SECCI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON. LAGTIME DAYS AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
OCT										
01...	1550	55.0	4500	--	--	--	--	--	.00	.0
01...	1620	33.0	10800	--	--	--	--	--	.00	.0
09...	0745	3.00	10800	72.0	--	--	--	--	.00	.0
09...	0750	32.0	10800	--	--	--	--	--	.00	.0
09...	0800	3.00	4500	72.0	--	--	--	--	.00	.0
09...	0805	55.0	4500	--	--	--	--	--	.00	.0
14...	1140	3.00	10800	56.0	--	--	--	--	.00	.0
14...	1145	34.0	10800	--	--	--	--	--	.00	.0
14...	1230	3.00	4500	72.0	--	--	--	--	.00	.0
14...	1235	50.0	4500	--	--	--	--	--	.00	.0
15...	1200	--	--	--	--	--	--	--	.00	.0
22...	1030	2.00	4500	74.0	25.5	11.000	900	--	.00	.0
22...	1035	71.0	4500	--	--	--	--	--	.00	.0
22...	1045	2.00	10800	89.0	25.0	--	1150	--	.00	.0
27...	0940	70.0	4500	--	--	--	--	--	.00	.0
27...	0955	32.0	10800	--	--	--	--	--	.00	.0
27...	1030	--	--	--	--	--	--	--	.00	.0
NOV										
05...	1140	2.00	10800	94.0	--	--	--	--	.00	.0
05...	1145	33.0	10800	--	--	--	--	--	.00	.0
05...	1300	2.00	4500	94.0	--	--	--	--	.00	.0
05...	1305	70.0	4500	--	--	--	--	--	.00	.4
13...	1025	2.00	10800	50.0	--	--	--	--	.00	.0
13...	1030	40.0	10800	--	--	--	--	--	.00	.0
13...	1100	2.00	4500	58.0	--	--	--	--	.00	1.0
13...	1110	52.0	4500	--	--	--	--	--	.00	.0
17...	1405	3.00	10800	60.0	26.0	--	150	--	.00	.0
17...	1410	27.0	10800	--	--	--	--	--	.00	.0
17...	1420	2.00	4500	--	--	--	--	--	.00	.0
17...	1425	73.0	4500	72.0	26.0	--	70.0	--	.00	.0
28...	1110	3.00	4500	96.0	--	--	--	--	.00	.0
28...	1120	65.0	4500	--	--	--	--	--	.95	.2
28...	1140	3.00	10800	54.0	--	--	--	--	.00	.0
28...	1150	31.0	10800	--	--	--	--	--	.00	.0
DEC										
09...	1340	34.0	10800	--	--	--	--	--	.00	.0
09...	1345	2.00	10800	10A	--	--	--	--	.00	.0
09...	1405	2.00	4500	10A	--	--	--	--	.00	.0
15...	1125	2.00	4500	78.0	22.5	--	175	--	.00	.0

WATER QUALITY DATA. WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGENATION AT 20C (82133)	OXYGEN DEMAND BIOCHEM ULT. CARBONACEOUS (82135)	OXYGEN DEMAND BIOCHEM NITROGEN (82132)	OXYGEN DEMAND BIOCHEM NITROGEN (00321)	OXYGEN DEMAND BIOCHEM UNINHIBIT. (00319)	DEOXYGENATION CONSTANT (00325)	COLIFORMS 0.45 UM-MF (31616)	STREPTOCOCCI KF AGAR (COLS. PER 100 ML) (31673)	PHYTOPLANKTON TOTAL (CELLS PER ML) (60050)
OCT 01...	.06	3.5	.00	.00	3.6	--	--	--	--
01...	.08	3.2	.50	.47	3.6	--	--	--	--
09...	.16	11.3	.16	.50	4.0	--	--	--	--
09...	.08	2.0	.08	.98	4.5	--	--	--	--
09...	.11	.00	.00	.00	4.4	--	--	--	--
09...	.09	4.4	.00	.00	2.6	--	--	--	--
14...	.12	4.1	.00	.00	4.1	--	--	--	--
14...	.13	2.3	.15	.56	3.8	--	--	--	--
14...	.14	4.4	.00	.00	4.4	--	--	4900	---
14...	.06	4.5	.00	.00	4.6	--	--	5300	---
15...	.18	2.2	.06	1.6	3.8	--	--	11000	---
22...	--	--	--	--	5.7	.06	--	1900	---
22...	.07	3.0	.34	3.4	6.4	--	--	15000	---
22...	.15	4.1	.00	.00	4.1	--	--	---	---
27...	.15	2.8	.25	.34	3.1	--	--	---	---
27...	.13	3.0	.00	.00	3.0	--	--	---	---
27...	.14	3.5	4.8	.29	10	--	--	---	---
NOV 05...	.12	4.1	.00	.00	4.1	--	--	---	---
05...	.25	2.3	.47	.60	2.9	--	--	---	---
05...	.21	3.5	.73	.82	4.4	--	--	7900	---
05...	.07	2.8	.00	.00	3.3	--	--	2400	---
13...	.11	2.6	.20	.50	3.1	--	--	---	---
13...	.03	3.4	.54	.54	2.5	--	--	---	---
13...	.13	2.0	.00	.00	2.4	--	--	6400	---
13...	.10	2.1	.00	.00	2.1	--	--	4400	---
17...	--	--	--	--	3.5	.16	--	17000	---
17...	.17	1.4	.38	.82	2.2	--	--	5300	---
17...	.18	3.0	.00	1.0	4.0	--	--	12000	---
17...	--	--	--	--	2.4	.18	--	11000	---
28...	.13	2.5	.00	.00	2.6	--	--	8300	---
28...	.10	2.5	.00	.00	2.6	--	--	---	---
28...	.08	5.2	.00	.00	5.2	--	--	---	---
28...	.08	3.2	.65	.56	3.8	--	--	---	---
DEC 09...	.12	3.4	.28	.79	4.2	--	--	---	---
09...	--	--	--	--	3.0	.10	--	---	---
09...	.12	2.4	.39	.80	3.2	--	--	11000	---
15...	.12	2.7	.22	.90	3.5	--	--	6000	---

APPENDIX A
 - POTOMAC R AT PINEY POINT, MD ---Cont.

01661475

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	TRANS- PAR- ENCY (DISK (IN)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	(00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L)	(00302)
DEC 15....	1200	2.00	10800	100	---	18.500	---	135	---	0.00	---	---	---	---	0.00	---	---	---
JAN 02....	1010	3.00	4500	---	---	---	---	---	---	---	---	---	---	---	0.65	---	---	---
02....	1020	59.0	4500	---	---	---	---	---	---	---	---	---	---	---	0.66	---	---	---
02....	1030	3.00	10800	---	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
02....	1040	3.00	10800	---	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
22....	1425	2.00	4500	72.0	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
22....	1430	53.0	4500	---	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
22....	1455	2.00	10800	78.0	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
22....	1500	2.00	10800	---	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
27....	1300	3.00	10800	108	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
27....	1310	34.0	10800	---	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
27....	1340	3.00	4500	108	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
27....	1350	78.0	4500	---	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
FEB 05....	0940	2.00	10800	72.0	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
05....	1005	70.0	4500	---	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
05....	1010	3.00	4500	90.0	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
13....	0800	28.0	10800	---	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
13....	0810	3.00	10800	78.0	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
13....	0840	3.00	4500	90.0	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
13....	0850	70.0	4500	---	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
19....	1110	31.0	10800	---	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
19....	1120	3.00	10800	108	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
19....	1130	70.0	4500	---	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
19....	1140	3.00	4500	120	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
26....	1345	3.00	10800	---	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
26....	1355	31.0	10800	---	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
26....	1415	3.00	4500	---	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
26....	1425	70.0	4500	---	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
MAR 03....	1150	3.00	4500	96.0	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
03....	1200	58.0	4500	---	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
03....	1230	3.00	10800	96.0	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
09....	1340	3.00	10800	66.0	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
09....	1350	33.0	10800	---	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
09....	1400	3.00	4500	63.0	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
09....	1410	70.0	4500	---	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
18....	1340	2.00	10800	96.0	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
18....	1410	2.00	4500	---	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
26....	1120	3.00	10800	78.0	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---
26....	1150	3.00	4500	102	---	---	---	---	---	---	---	---	---	---	0.00	---	---	---

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXY- NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (43/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. LAGTIME AT 20C (82136)	DEOXY- NATION NITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREPT- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
DEC 15....	.18	2.2	9.0	.06	1.6	3.8	--	--	--	<3500
JAN 02....	.13	2.5	--	.00	.00	2.6	--	--	--	--
02....	.11	3.0	--	.00	.00	3.0	--	--	--	--
02....	.08	2.8	--	.00	.00	2.8	--	--	--	--
02....	.13	2.3	--	--	.52	2.8	--	--	--	--
22....	.11	2.8	--	.25	.24	3.0	--	--	--	<13000
22....	--	3.7	--	--	.37	3.0	.18	--	--	<12000
22....	.09	3.4	10.0	.23	.71	4.1	--	--	--	<15000
22....	.11	3.0	11.5	.53	.53	3.5	--	--	--	8400
27....	.15	2.3	8.0	.20	1.0	3.3	--	--	--	--
27....	.14	2.9	5.3	.24	.92	3.8	--	--	--	--
27....	.15	2.7	12.0	.15	.95	3.6	--	--	--	--
27....	.16	2.5	13.0	.28	1.8	4.3	--	--	--	--
FEB 05....	--	--	--	--	--	2.2	.14	--	--	7300
05....	.11	3.5	.00	.11	.40	3.9	--	--	--	8400
05....	.16	2.3	2.0	.12	1.1	3.4	--	--	--	<5100
13....	.07	2.7	--	.00	.00	2.7	--	--	--	--
13....	--	--	--	--	--	3.2	.08	--	--	--
13....	--	--	--	--	--	2.3	.10	--	--	--
13....	.08	2.3	--	.00	.00	2.3	--	--	--	--
19....	.10	3.0	3.0	.29	.44	3.4	--	--	--	--
19....	.08	2.0	2.4	.33	.49	2.5	--	--	--	--
19....	.08	3.2	--	.00	.00	3.2	--	--	--	--
19....	.08	2.0	--	.00	.00	2.0	--	--	--	--
26....	.07	3.3	10.9	.24	.28	3.6	--	--	--	--
26....	.12	2.5	8.7	.32	.32	2.9	--	--	--	--
26....	.11	2.4	10.1	.35	.49	2.8	--	--	--	--
26....	.11	2.5	--	.00	.00	2.5	--	--	--	8100
MAR 03....	.11	2.9	--	--	--	2.9	--	--	--	3700
03....	.12	3.2	--	--	--	3.2	--	--	--	<22000
03....	.11	2.9	--	--	.40	3.3	--	--	--	9800
09....	.07	2.1	.00	.15	.60	2.7	--	--	--	--
09....	.16	1.5	--	.00	.00	1.6	--	--	--	--
09....	.08	2.0	4.0	.15	.70	2.7	--	--	--	--
09....	.09	1.5	--	.00	.00	1.6	--	--	--	--
18....	--	--	--	--	--	2.8	.10	--	--	--
18....	.15	2.4	--	.00	.00	2.4	--	--	--	12000
26....	.07	4.2	--	.00	.00	4.2	--	--	--	--
26....	--	--	--	--	--	3.6	.10	--	--	--

01661475 - POTOMAC R AT PINEY POINT, MD --Cont.
 APPENDIX A

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- DEPTH (FEET)	SAMPLE LOC- TION	CROSS SECTION (FT FWD)	TRANS- PAR- ENCY (SECHI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, IMME- DIATE (MG/L)	OXYGEN DEMAND, BIOCHEM CARBON. LAGTIME AT 20C (82135)
		(00003)	(00009)	(00077)	(0019A)	(00199)	(00200)	(00302)			
MAR	26...	70.0	4500	--	--	--	--	--	--	.00	
APR	02...	29.0	10800	--	--	--	--	--	--	.00	
	02...	3.00	10800	94.0	--	--	--	--	--	.00	
	02...	3.00	4500	90.0	--	--	--	--	--	.00	
	07...	68.0	4500	--	--	--	--	--	--	.00	
	07...	3.00	4500	60.0	--	--	--	--	--	.00	
	07...	3.00	10800	54.0	--	--	--	--	--	.00	
	16...	78.0	4500	--	--	--	--	--	--	.00	
	16...	2.00	4500	48.0	7.50	--	--	1500	--	.00	
	16...	29.0	10800	--	--	--	--	--	--	.00	
	16...	2.00	10800	54.0	7.50	--	--	1600	--	.00	
	23...	3.00	4500	36.0	--	--	--	--	--	.00	
	23...	75.0	4500	--	--	--	--	--	--	.00	
	1100	3.00	10800	36.0	--	--	--	--	--	.00	
	1100	2.00	4500	36.0	--	--	--	--	--	.00	
	1110	68.0	4500	--	--	--	--	--	--	.00	
	1145	2.00	10800	36.0	--	--	--	--	--	.00	
MAY	04...	67.0	4500	--	--	--	--	--	--	.00	
	04...	2.00	4500	42.0	--	--	--	--	--	.00	
	04...	3.00	10800	--	--	--	--	--	--	.00	
	1240	28.0	10800	--	--	--	--	--	--	.00	
	1500	2.00	10800	36.0	--	--	--	--	--	.00	
	1510	38.0	10800	--	--	--	--	--	--	.00	
	1540	2.00	4500	30.0	--	--	--	--	--	.00	
	1550	75.0	4500	--	--	--	--	--	--	.00	
	20...	69.0	4500	--	--	--	--	--	--	.00	
	20...	2.00	4500	49.0	8.50	--	--	90.0	--	.00	
	20...	2.00	10800	57.0	12.0	--	--	200	--	.00	
	20...	31.0	10800	--	--	--	--	--	--	.00	
	1830	3.00	10800	54.0	--	--	--	--	--	.00	
	1925	3.00	4500	--	--	--	--	--	--	.00	
	1930	59.0	4500	--	--	--	--	--	--	.00	
JUN	01...	2.00	10800	72.0	15.0	--	--	--	--	.00	
	01...	32.0	10800	--	--	--	--	--	--	.00	
	01...	2.00	4500	72.0	15.0	--	--	--	--	.00	
	01...	78.0	4500	--	--	--	--	--	--	.00	
	10...	2.00	10800	45.0	--	--	--	--	--	.00	
	10...	22.0	10800	--	--	--	--	--	--	.00	
	10...	2.00	4500	52.0	--	--	--	--	--	.00	

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYSE NATION CARBON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEDUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS, LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG, KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG, ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- SEVA- TYON CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS, /100 ML) (31616)	STREPTO- COCCI FECAL, KF AGAR (COLS, PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (50050)
MAR 26...	.15	2.7	--	.00	.00	2.7	--	--	--	--
APR 02...	.17	2.8	--	.00	.00	2.8	--	--	--	<7700
02...	--	--	--	--	--	4.1	.10	--	--	<10000
02...	.18	2.7	8.7	.14	1.0	3.7	--	--	--	--
07...	.08	3.5	--	.00	.00	3.5	--	--	--	--
07...	--	--	--	--	--	4.2	.14	--	--	--
07...	.14	3.5	--	.00	.00	3.6	--	--	--	15000
16...	.19	3.9	12.3	.18	1.2	5.0	.13	--	--	33000
16...	.20	5.8	9.8	.09	1.5	7.4	--	--	--	414000
16...	.27	7.5	8.4	.34	3.1	11	.11	--	--	38000
23...	--	--	--	--	--	13	--	--	--	23000
23...	.14	6.2	11.8	--	.60	6.8	--	--	--	20000
30...	.14	12	9.2	.24	1.3	13	--	--	--	44000
30...	--	--	--	--	--	13	.12	--	--	44000
30...	.11	9.1	--	.00	.00	9.1	--	--	--	23000
30...	.15	12	5.7	.24	1.6	13	--	--	--	47000
MAY 04...	.13	10	9.2	.11	1.6	12	--	--	--	29000
04...	.14	8.3	11.4	.39	.81	9.1	--	--	--	25000
04...	.15	7.0	3.9	.10	8.2	15	--	--	--	21000
04...	.14	8.8	--	.00	.00	8.8	--	--	--	32000
11...	.17	8.0	7.2	.16	6.0	14	--	--	--	457000
11...	.10	15	11.0	.15	2.9	18	--	--	--	433000
11...	.17	8.5	--	.00	.00	8.6	--	--	--	40000
11...	.17	8.0	7.2	.16	6.0	14	--	--	--	420000
20...	.16	9.4	--	.00	.00	9.4	--	--	--	19000
20...	.12	7.7	7.7	.14	3.2	11	--	--	--	23000
20...	.10	7.9	7.3	.14	2.6	11	--	--	--	27000
20...	.18	7.5	8.6	.21	2.5	10	--	--	--	26000
28...	--	--	--	--	--	12	.08	--	--	15000
28...	.09	11	--	.00	.00	11	--	--	--	18000
28...	.18	8.0	11.4	.37	1.2	9.2	--	--	--	17000
JUN 01...	--	--	--	--	--	6.9	.09	--	--	--
01...	.19	4.4	13.5	--	1.0	5.5	--	--	--	--
01...	.12	7.4	12.5	--	.58	8.0	--	--	--	--
01...	.10	7.3	--	.00	.00	7.3	--	--	--	--
10...	--	--	--	--	--	5.6	.14	--	--	--
10...	.19	4.9	13.6	--	.59	5.6	--	--	--	--
10...	.10	5.5	--	.00	.00	5.6	--	--	--	--

APPENDIX A

015661475 - POTOMAC R AT PINEY POINT, MD --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	L BANK)	(00009)	CROSS SECTION (FT FM L BANK)	LOC- ATION, CROSS SECTION	TRANS- PAR- ENCY (SECCI DISK)	(00077)	LIGHT DEPTH TO 1%	OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 10%	OF SURFACE LIGHT (FEET)	(00198)	LIGHT DEPTH TO 50%	OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, IMME- DIATE (MG/L)	(00302)	OXYGEN DEMAND, BIOCHEM CARBON, LAGTIME AT 20C (82135)
JUN																							
15...	1615	2.00	10800					48.0		--			--			--						.0	.00
15...	1645	2.00	4500					54.0		--			--			--						.0	.00
15...	1650	70.0	4500					--		--			--			--						.0	.00
25...	1320	64.0	4500					--		--			--			--						.0	.00
25...	1330	2.00	4500					--		--			--			--						.0	.00
25...	1425	2.00	10800					48.0		--			--			--						.0	.00
JUL																							
01...	1210	3.00	10800					36.0		11.0			--			2100					.0	.00	
01...	1215	30.0	10800					--		--			--			--						.0	.00
01...	1245	3.00	4500					30.0		16.5			--			1100						.0	.00
01...	1250	73.0	4500					--		--			--			--						.0	.00
07...	1240	2.00	10800					40.0		--			--			--						.0	.00
07...	1330	2.00	4500					--		--			--			--						.0	.00
15...	0900	3.00	4500					50.0		10.0			--			2000						.0	.00
15...	0925	2.00	10800					48.0		10.0			--			2200						.0	.00
24...	1240	57.0	4500					--		--			--			--						.0	.00
24...	1250	2.00	4500					54.0		--			--			--						.0	.00
24...	1320	26.0	10800					--		--			--			--						.0	.00
24...	1330	2.00	10800					62.0		--			--			--						.0	.00
27...	1515	2.00	10800					49.0		16.5			--			1400						.0	.00
27...	1535	77.0	4500					--		--			--			--						.0	.00
27...	1543	1.60	4500					48.0		3.00			--			1400						.0	.00
AUG																							
07...	1345	2.00	4500					42.0		--			--			--						.0	.00
14...	1300	75.0	4500					--		--			--			--						.0	.00
14...	1310	2.00	4500					54.0		--			--			--						.0	.00
14...	1355	2.00	10900					54.0		--			--			--						.0	.00
17...	1120	1.60	10800					48.0		--			--			--						.0	.00
17...	1125	26.0	10800					--		--			--			--						.0	.00
28...	1150	27.0	10800					--		--			--			--						.0	.00
28...	1200	1.00	10900					64.0		--			--			--						.0	.00
28...	1230	1.00	4500					66.0		--			--			--						.0	.00
SEP																							
02...	1125	2.00	4500					72.0		--			--			--						.0	.00
02...	1210	34.0	10800					--		--			--			--						.0	.00
10...	1520	1.60	4500					78.0		--			--			--						.0	.00
10...	1535	1.60	10800					84.0		--			--			--						.0	.00
17...	1110	1.00	4500					50.0		--			--			--						.0	.00
17...	1200	1.00	10800					54.0		--			--			--						.0	.00
17...	1220	37.0	10800					--		--			--			--						.0	.00
21...	1130	80.0	4500					--		--			--			--						.0	.00
21...	1135	1.60	4500					66.0		--			--			--						.0	.00

01661475 - POTOMAC R AT PINEY POINT, MD --Cont.

APPENDIX A

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. DAYS LAGTIME AT 20C (92135)	DEOXYGE NATION KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	OXYGEN DEMAND, RIOCHEM UNINHIB ULT. (MG/L) (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCCOCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JUN 15...	..	..	..	..	..	6.0	..	..	..	..
15...	.14	5.8	..	..	..	..	..	..	..	..
15...	.18	3.7	..	..	..	3.7	..	..	..	..
25...	.17	4.3	..	..	..	4.3	..	..	..	..
25...	.14	7.1	9.2	.57	5.8	13	..	..	..	..
25...	..	..	..	..	..	3.9	..	..	..	..
JUL 01...	..	..	..	..	..	5.5	.14	..	..	11000
01...	.11	5.2	..	.00	.00	5.2	..	..	..	4500
01...	..	..	..	..	..	5.2	.15	..	..	15000
01...	.09	5.2	12.5	..	1.2	6.4	..	..	..	6100
07...	..	..	..	..	..	10	.22	..	..	<32000
07...	.14	20	..	.00	.00	20	..	..	..	29000
15...	.07	5.3	..	.00	.00	5.3	..	..	..	..
15...	..	..	..	..	..	5.2	.11	..	..	..
24...	.10	2.5	14.0	.46	1.2	3.8	..	..	..	>330
24...	.14	2.4	11.5	.10	1.1	3.4	..	..	..	>4900
24...	..	..	..	..	..	4.9	.13	..	..	>1100
24...	.19	3.9	2.4	.09	2.2	6.0	..	..	..	>10000
27...	.18	2.4	..	.00	.00	2.4	..	..	..	>7800
27...	..	..	..	..	..	..	..	..	..	>240
AUG 07...	.15	5.3	3.1	.18	2.5	7.8	..	..	..	..
14...	.10	1.8	4.2	.25	1.3	3.1	..	..	..	..
14...	.14	3.5	4.5	.37	.79	4.4	..	..	..	..
14...	..	..	..	..	..	5.2	.12	..	..	..
17...	..	..	..	..	..	5.4	.15	..	..	>4300
17...	.08	7.2	..	.00	.00	7.2	..	..	..	>1700
28...	.05	3.3	..	.00	.00	3.3	..	..	..	..
28...	..	..	..	..	..	3.4	.07	..	..	..
28...	..	..	..	..	..	3.8	.14	..	..	..
SEP 02...	..	..	..	..	..	4.0	.16	..	..	..
02...	.07	3.5	..	.00	.00	3.5	..	..	..	..
10...	.10	5.0	..	.00	.00	5.0	..	..	..	..
10...	..	..	..	..	..	4.7	.10	..	..	..
17...	..	..	..	..	..	4.6	.09	..	..	..
17...	..	..	..	..	..	4.9	.12	..	..	..
17...	.08	2.5	11.5	.40	.43	2.9	..	..	..	..
21...	.08	2.3	.97	.28	.49	2.8	..	..	..	>840
21...	..	..	..	..	..	4.3	.14	..	..	>14000

APPENDIX A
 - POTOMAC R AT PINEY POINT, MD ---Cont.

01661475

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

SAMPLE LOC- ATION, CROSS SECTION (FIT FM L BANK) (00003) (00009)	TRANS- PAR- ENCY (SECCHI DISK) (TV) (00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET) (00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET) (00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET) (00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S) (00200)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C (82135)
						OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)

SEP 21... 1220 1.60 10800 66.0 -- -- -- -- .0 .00

DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM NITROG. DAYS LAGTIME AT 20C (82136)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
--	---	---	--	--	--	--	---	---

SEP 21... -- -- -- -- 4.4 .15 -- -- >16000

390212076195000 - POTOMAC RIVER AT POINT LOOKOUT
 APPENDIX A

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAMPLE LOCATION	SAMPLING DEPTH (FEET)	TRANS- PAR- ENCY (SECCHI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400-700NM	OXYGEN DEMAND, BIOCHEMICAL (MG/L)	OXYGEN DEMAND, IMMEDIATE DIATE (MG/L)	OXYGEN DEMAND, CARBON. DAYS LAGTIME AT 20C (82135)
AUG	01:00	4500	3.00	77.0	--	--	--	--	--	--	--
	0737	9600	1.60	66.0	--	--	--	--	--	--	--
	0747	16800	1.60	93.0	--	--	--	--	--	--	--
	0800	24300	3.00	84.0	--	--	--	--	--	--	--

DATE	TIME	DEOXYGENATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEMICAL ULT. (MG/L)	OXYGEN DEMAND, NITROGEN ULT. (MG/L)	OXYGEN DEMAND, UNINHIBITED ULT. (MG/L)	DEOXYGENATION CONSTANT K1 TO BASE E (00325)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	PHYTOPLANKTON, TOTAL (CELLS PER ML)
AUG	01:00	--	--	--	--	--	--	--	--
	0737	--	--	--	--	--	--	--	--
	0747	--	--	--	--	--	--	--	--
	0800	--	--	--	--	--	--	--	--

DATE	TIME	DEOXYGENATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEMICAL ULT. (MG/L)	OXYGEN DEMAND, NITROGEN ULT. (MG/L)	OXYGEN DEMAND, UNINHIBITED ULT. (MG/L)	DEOXYGENATION CONSTANT K1 TO BASE E (00325)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	PHYTOPLANKTON, TOTAL (CELLS PER ML)
AUG	01:00	--	--	--	--	--	--	--	--
	0737	--	--	--	--	--	--	--	--
	0747	--	--	--	--	--	--	--	--
	0800	--	--	--	--	--	--	--	--

380212076195000 - POTOMAC RIVER AT POINT LOOKOJT --Cont.

APPENDIX A

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (FEET)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FIT F#)	(00009)	TRANS- PAR- ENCY (SECCHI DISK IN)	(00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	(00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	(00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	(00199)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	(00200)	OXYGEN DEMAND, IMME- DIATE (MG/L)	(00302)	OXYGEN DEMAND, BIOCHEM CARBON, DAYS LAGTIME AT 20C	(82135)
DEC	18...	3.00	24300			48.0		--	--	--	--	--	--	--	--	.0		.00	
JAN	17...	45.0	4500					--	--	--	--	--	--	--	--	.0		.00	
	1406	1.00	4500			78.0		--	--	--	--	--	--	--	--	.0		.00	
	17...	27.0	24300					--	--	--	--	--	--	--	--	.0		.00	
	1505	3.00	24300					--	--	--	--	--	--	--	--	.0		.00	
	17...	1.00	24300			78.0		--	--	--	--	--	--	--	--	.0		.00	
FER																			
	18...	27.0	24300					--	--	--	--	--	--	--	--	.0		.00	
	18...	3.00	24300			48.0		--	--	--	--	--	--	--	--	.0		.00	
	18...	3.00	4500					--	--	--	--	--	--	--	--	.0		.00	
MAR																			
	17...	3.00	24300			72.0		--	--	--	--	--	--	--	--	.0		.00	
	17...	3.00	4500			72.0		--	--	--	--	--	--	--	--	.0		.00	
APR																			
	24...	3.00	4500			84.0		--	--	--	--	--	--	--	--	.0		.00	
	24...	3.00	24300			60.0		--	--	--	--	--	--	--	--	.0		.00	
MAY																			
	22...	26.0	24300					--	--	--	--	--	--	--	--	.0		.00	
	22...	3.00	24300			96.0		--	--	--	--	--	--	--	--	.0		.00	
	22...	3.00	4500			96.0		--	--	--	--	--	--	--	--	.0		.00	
JUN																			
	09...	3.00	4500			53.0		--	--	--	--	--	--	--	--				
	09...	3.00	9600			60.0		--	--	--	--	--	--	--	--				
	09...	3.00	16800			60.0		--	--	--	--	--	--	--	--				
	09...	3.00	24300			54.0		--	--	--	--	--	--	--	--				
	10...	3.00	4500			58.0		--	--	--	--	--	--	--	--				
	16...	3.00	24300			63.0		--	--	--	--	--	--	--	--	.0		.00	
	16...	3.00	4500			61.0		--	--	--	--	--	--	--	--				
JUL																			
	22...	3.00	4500			66.0		--	--	--	--	--	--	--	--	.0		.00	
	22...	3.00	24300			66.0		--	--	--	--	--	--	--	--	.0		.00	
AUG																			
	18...	3.00	24300			72.0		21.0	--	--	--	--	--	290		.0		.00	
	18...	3.00	4500			96.0		22.5	--	--	--	--	--	400					
SEP																			
	18...	3.00	4500			84.0		19.0	--	--	--	--	--	600		.0		.00	
	18...	3.00	24300			90.0		19.0	--	--	--	--	--	1500					

APPENDIX A
 380212076195000 - POTOMAC RIVER AT POINT LOOKOJT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON- ACEOUS (MS/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS, LAGTIME AT 20C (82136)	DEOXYGE NATION NITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT K1 TO BASE E (00325)	COLI- FORM, FECAL, 0.45' UM-WF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
DEC 18...	--	--	--	--	--	4.5	.15	--	--	15000
JAN 17...	.18	3.9	11.0	.22	1.2	5.0	--	--	--	22000
17...	--	--	--	--	--	--	--	--	--	--
17...	.14	3.9	.00	.00	7.8	12	--	--	--	25000
17...	.1A	3.7	--	.00	.00	3.7	--	--	--	16000
17...	--	--	--	--	--	--	--	--	--	--
FER										
18...	.10	4.5	--	.00	.00	4.6	--	--	--	12000
18...	--	--	--	--	--	3.6	.12	--	--	12000
18...	.25	2.7	5.1	.06	3.1	5.7	--	--	--	16000
MAR										
17...	.26	3.0	2.9	.05	2.4	5.3	--	--	--	13000
17...	--	--	--	--	--	3.2	.19	--	--	17000
APR										
24...	--	--	--	--	--	6.1	.09	--	--	19000
24...	.11	6.9	--	.00	.00	6.8	--	--	--	45000
MAY										
22...	.13	6.0	--	.00	.00	6.0	--	--	--	18000
22...	.26	3.1	10.0	.19	1.5	4.7	--	--	--	--
22...	.09	6.9	--	--	--	--	--	--	--	--
JUN										
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	9.0	.06	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
JUL										
22...	.11	5.4	--	.00	.00	5.4	--	--	--	18000
22...	--	--	--	--	--	5.0	.13	--	--	<19000
AUG										
18...	--	--	--	--	--	5.7	.11	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
SEP										
1A...	.27	3.9	13.0	.47	2.4	6.3	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--

380212076195000 - POTOMAC RIVER AT POINT LOOKOUT ---Cont.---
 APPENDIX A

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	TRANS- PAR- ENCY (DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (82135)	OXYGEN DEMAND, IMME- DIATE (MG/L) (00302)
OCT										
22...	1240	2.00	4500	67.0	19.0	--	--	3000	.00	.0
22...	1245	50.0	4500	--	--	--	--	--	.00	.0
22...	1320	2.00	24300	84.0	--	--	--	--	--	--
22...	1325	20.0	24300	--	--	--	--	--	.00	.0
NOV										
17...	1235	2.00	24300	60.0	25.0	--	--	90.0	.00	.0
17...	1240	19.0	24300	--	--	--	--	--	.00	.0
17...	1320	2.00	4500	72.0	26.0	--	--	210	.00	.0
DEC										
15...	1000	2.00	24300	90.0	27.0	--	--	360	.00	.0
15...	1030	53.0	4500	96.0	27.0	--	--	325	.00	.0
JAN										
22...	1555	2.00	4500	98.0	--	--	--	--	.00	.0
22...	1600	57.0	4500	--	--	--	--	--	.00	.0
22...	1625	2.00	24300	72.0	--	--	--	--	.00	.0
22...	1630	18.0	24300	--	--	--	--	--	.00	.0
FEB										
05...	1100	3.00	4500	132	--	--	--	--	.00	.0
05...	1135	20.0	24300	--	--	--	--	--	.00	.0
05...	1140	3.00	24300	--	--	--	--	--	.00	.0
MAR										
03...	1000	3.00	24300	42.0	--	--	--	--	.00	.0
03...	1045	3.00	4500	36.0	--	--	--	--	.00	.0
03...	1050	53.0	4500	--	--	--	--	--	.00	.0
APR										
16...	1045	2.00	24300	60.0	14.0	--	--	2000	--	--
16...	1110	2.00	4500	72.0	18.0	--	--	1900	.00	.0
16...	1115	55.0	4500	--	--	--	--	--	.00	.0
MAY										
20...	1025	2.00	4500	50.0	12.5	--	--	330	.00	.0
20...	1030	58.0	4500	--	--	--	--	--	.00	.0
20...	1045	20.0	24300	--	--	--	--	--	.00	.0
20...	1050	2.00	24300	54.0	9.80	--	--	490	.00	.0
JUN										
01...	1007	2.00	24300	50.0	--	8.000	--	180	--	--
01...	1034	2.00	4500	78.0	22.0	--	--	--	--	--
10...	0825	3.00	4500	57.0	--	--	--	--	--	--
15...	1759	2.00	4500	96.0	--	--	--	--	--	--
JUL										
15...	0804	3.00	4500	94.0	13.0	--	--	1700	--	--
27...	0925	3.00	24300	--	--	--	--	--	.00	.0
27...	0930	24.0	24300	--	--	--	--	--	.00	.0
27...	0934	1.60	24300	--	15.5	--	--	1000	--	--
27...	1005	1.60	4500	72.0	21.8	--	--	1500	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULIT. CARBON-- ACEDUS (MS/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS, DAYS LAGTIME AT 20C (82135)	DEOXYGE NATION VITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROS, ULIT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY-- GENA-- TION CON-- STANT K1 TO BASE E (00325)	COLI-- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP-- TOCCCCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO-- PLANK-- TON, TOTAL (CELLS PER ML) (60050)
OCT										
22....	..	..	..	..	..	3.2	.11	--	--	<2200
22....	.13	2.5	..	.00	.00	2.5	--	--	--	1800
22....	..	..	..	..	..	--	--	--	--	10000
22....	.17	5.8	3.0	.15	1.0	6.8	--	--	--	11000
NOV										
17....	..	..	..	..	..	4.1	.18	--	--	14000
17....	.21	2.9	..	.00	.00	2.9	--	--	--	--
17....	.16	2.3	13.0	.30	.45	2.8	--	--	--	14000
DEC										
15....	..	..	..	..	..	3.9	.10	--	--	<4400
15....	.09	3.4	3.0	.15	.80	--	--	--	--	10000
JAN										
22....	.13	2.3	9.3	.19	.65	2.9	--	--	--	<3100
22....	.16	2.8	..	.00	.00	2.8	--	--	--	<11000
22....	.13	3.1	12.0	.48	.42	3.5	--	--	--	<9000
22....	.11	3.2	..	.00	.00	3.2	--	--	--	<11000
FEB										
05....	..	..	..	..	..	3.7	.11	--	--	2400
05....	.19	2.9	6.5	.08	1.8	4.7	--	--	--	5100
05....	.11	2.9	.00	.15	.75	3.7	--	--	--	3900
MAR										
03....	..	..	..	..	..	3.6	.10	--	--	26000
03....	.11	5.7	..	.00	.00	5.7	--	--	--	<90000
03....	.11	3.2	..	.00	.00	3.2	--	--	--	7500
APR										
16....	..	..	..	..	..	--	--	--	--	12000
16....	.18	5.2	15.3	1.0	.71	5.9	--	--	--	9800
16....	.22	4.5	10.0	.10	1.8	6.4	--	--	--	27000
MAY										
20....	.14	7.1	11.3	.40	1.1	8.1	--	--	--	17000
20....	.19	7.4	8.8	.14	2.1	9.4	--	--	--	32000
20....	.05	17	..	.00	.00	17	--	--	--	24000
20....	.08	14	9.2	.50	1.4	16	--	--	--	32000
JUN										
01....	..	..	..	..	..	--	--	--	--	--
01....	..	..	..	..	..	--	--	--	--	--
10....	..	..	..	..	..	--	--	--	--	--
15....	..	..	..	..	..	--	--	--	--	--
JUL										
15....	..	..	..	..	..	--	--	--	--	--
27....	.14	3.7	10.2	.60	.51	4.2	--	--	--	>1100
27....	.14	2.7	9.7	.61	.52	3.2	--	--	--	>1900
27....	..	..	..	..	..	--	--	--	--	--
27....	..	..	..	..	..	--	--	--	--	--

380212076195000 - POTOMAC RIVER AT POINT LOOKOUT ---Cont.---
 APPENDIX A

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOCATION CROSS SECTION (FT FV BANK) L BANK	DEPTH (FEET)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400-700NM INTENS. (U-EINS) /SQM/S	OXYGEN DEMAND, IMMEDIATE (MG/L)	OXYGEN DEMAND, BIOCHEMICAL CARBON. LAGTIME AT 20C (82135)
JUL 27...	1010	4500	3.00						0.0	0.00
AUG 19...	0909	4500	1.60	72.0						
19...	0915	4500	59.0							0.00
19...	0959	16800	1.60	60.0						
19...	1014	24300	1.60	60.0						
19...	1015	24300	3.00							0.00
SEP 10...	1634	4500	1.60	78.0						
10...	1635	4500	3.00							0.00
21...	1024	24300	1.60	72.0						
21...	1055	4500	57.0							0.00
DATE										
JUL 27...	0.17	2.1	5.5	0.14	1.4	3.6				>2900
AUG 19...										
19...	0.19	3.9	10.3	0.35	1.2	5.0				
19...										
19...										
19...	0.17	3.4		0.00	0.00	3.4				
SEP 10...										
10...	0.09	5.7	1.2	0.18	1.3	7.0				
21...										
21...	0.10	2.9	8.9	0.24	0.80	3.7				>2000

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLING DEPTH (FEET)	SAMPLE LOCATION	TRANS-PAR-ENCY (SECCHI DISK)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID. 400-700NM	OXYGEN DEMAND, IMMEDIATE (MG/L)	OXYGEN DEMAND, AT 20C (82135)
DEC 18...	0920	3.00	---	40.0	---	---	---	---	---	---
FEB 18...	0955	3.00	---	50.0	---	---	---	0.0	0.00	---
MAR 17...	0840	3.00	---	84.0	---	---	---	0.0	0.07	---
APR 25...	0850	3.00	---	78.0	---	---	---	1.1	1.7	---
MAY 22...	0930	3.00	---	96.0	---	---	---	0.0	0.00	---
JUN 10...	1007	3.00	---	68.0	---	---	---	---	---	---
16...	0930	3.00	---	75.0	---	---	---	0.0	0.00	---
AUG 18...	0940	3.00	---	108	21.5	---	---	0.0	0.00	---
SEP 18...	1300	3.00	---	108	28.0	---	1100	---	---	---

DATE	TIME	DEOXYGE CARBON K1 TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM ULT. (MG/L) AT 20C (00320)	OXYGEN DEMAND, BIOCHEM NITROG. K1 TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) AT 20C (00321)	OXYGEN DEMAND, UNINHIB ULT. (MG/L) (00319)	DEOXYGE SEVA-TION CON-STANT K1 TO BASE E (00325)	COLI-FORM, FECAL 0.45 UM-WF (COLS./100 ML) (31616)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML) (60050)
DEC 18...	---	---	---	---	---	---	---	---	---	---
FEB 18...	---	---	---	---	---	3.0	0.16	---	---	11000
MAR 17...	---	---	---	---	---	4.6	0.09	---	---	11000
APR 25...	0.12	5.1	0.00	0.00	5.1	5.1	---	---	---	23000
MAY 22...	0.21	4.5	13.0	0.43	4.8	4.8	---	---	---	---
JUN 10...	---	---	---	---	---	---	---	---	---	---
16...	0.14	3.4	12.0	0.48	9.9	13	---	---	---	---
AUG 18...	---	---	---	---	---	4.7	0.20	---	---	---
SEP 18...	---	---	---	---	---	---	---	---	---	---

375248076094200 - CHESAPEAKE BAY NR POTOMAC RIVER OFF SMITH POINT ---Cont.

APPENDIX A
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FEET)	SAMPLE LOC- ATION; CROSS SECTION (FT FM L RAVN)	TRANS- PAR- ENCY (SECCI DISK (IV))	LIGHT DEPTH TO 1%	LIGHT DEPTH TO 10%	LIGHT DEPTH TO 50%	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM; CARBON, DAYS LAGTIME/ AT 20C (82135)
		(00003)	(00009)	(00077)	(00034)	(00198)	(00199)	(00200)	(00302)
OCT 22...	1415	2.00	--	120	27.0	--	--	1000	.0
NOV 17...	1150	2.00	--	60.0	25.0	--	--	200	.0
DEC 15...	0900	2.00	--	99.0	24.5	--	--	300	.0
JAN 22...	1710	2.00	--	86.0	--	--	--	--	.0
MAR 03...	0855	3.00	--	42.0	--	--	--	--	--
MAY 20...	1140	2.00	--	60.0	11.2	--	--	480	--
JUN 01...	0914	2.00	--	72.0	18.0	--	1.000	--	--
JUL 27...	0824	1.60	--	72.0	19.0	--	--	1000	--
JUL 27...	0835	90.0	--	--	--	--	--	--	.0
AUG 19...	1220	1.60	--	64.0	--	--	--	--	--
SEP 21...	0929	1.60	--	78.0	--	--	--	--	--

APPENDIX A
 375248076094200 - CHESAPEAKE BAY NR POTOMAC RIVER OFF. SMITH POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (82133)	OXYGEN DEMAND, BIOCHEM. ULT. CARBON-- ACEDOUS (MS/L) (00320)	OXYGEN DEMAND, BIOCHEM. NITROG. KI TO BASE E LAGTIME AT 20C (82135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45- UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31573)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
OCT 22...	.14	3.7	2.0	1.2	.67	4.3	--	--	--	<5500
NOV 17...	.20	2.2	.00	--	--	3.2	--	--	--	9400
DEC 15...	--	--	--	--	--	3.4	.09	--	--	<4300
JAN 22...	--	--	--	--	--	3.6	.07	--	--	<14000
MAR 03...	--	--	--	--	--	--	--	--	--	18000
MAY 20...	--	--	--	--	--	--	--	--	--	16000
JUN 01...	--	--	--	--	--	--	--	--	--	--
JUL 27...	--	--	--	--	--	--	--	--	--	--
AUG 27...	.10	1.8	--	--	--	--	--	--	--	<180
SEP 19...	--	--	--	--	--	--	--	--	--	--
SEP 21...	--	--	--	--	--	--	--	--	--	--

390200076124100 - CHESAPEAKE BAY NR POTOMAC R / PT LOOKOUT TRENCH
 APPENDIX A

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLING DEPTH (FEET)	SAMPLE LOCATION	TRANS- PAR- ENCY (SECHI DISK) (IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID% 400-700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (82135)
		(00003)	(00009)	(00077)	(00034)	(00198)	(00199)	(00200)	(00302)

SFP	18...	1410	3.00	--	113	--	--	--	--
-----	-------	------	------	----	-----	----	----	----	----

DATE	TIME	SAMPLING DEPTH (FEET)	SAMPLE LOCATION	TRANS- PAR- ENCY (SECHI DISK) (IN)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET)	LIGHT INCID% 400-700NM INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, BIOCHEM CARBON. DAYS LAGTIME AT 20C (82135)
		(00320)	(82135)	(82132)	(00321)	(00319)	(00325)	(31616)	(60050)

SFP	18...	--	--	--	--	--	--	--	--
-----	-------	----	----	----	----	----	----	----	----

APPENDIX A

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- DEPTH (FEET)	SAMPLING DEPTH (FEET)	SECTION (FIT FM)	CROSS SECTION	ATTACH CROSS	LOC- ATION	SAMPLE LOC-	TRANS- PAR- ENCY	LIGHT DEPTH TO 1%	LIGHT DEPTH TO 10%	LIGHT DEPTH TO 50%	LIGHT INCID.	OXYGEN DEMAND, BIOCHEM CARBON, BAYS	OXYGEN DEMAND, IMME- DIATE	LIGHT INTENS. (U-EINS /SQM/S)	OXYGEN DEMAND, (00302)	OXYGEN DEMAND, AT 20C (82135)
OCT 22...	1500	2.00							102	28.0	--	--	1100	.0	.0		.00	.00
NOV 17...	1105	2.00							72.0	--	20.000	--	300	.0	.0		.00	.00
NOV 17...	1110	75.0							--	--	--	--						
DEC 0900	0900	2.00							94.0	--	--	--		.0	.0		.00	.00
MAR 03...	0805	3.00							54.0	--	--	--		.0	.0		.00	.00
MAY 20...	1250	2.00							54.0	13.3	--	--	540	--	--		--	--
JUN 01...	1834	2.00							78.0	18.0	--	1.000		--	--		--	--
JUL 15...	0730	2.00							77.0	17.0	--	--	500	.0	.0		.00	.00
JUL 15...	0735	75.0							--	--	--	--						
JUL 27...	0712	1.60							92.0	23.2	--	--	1500	--	--		--	--
JUL 27...	0715	3.00							--	--	--	--		.0	.0		.00	.00
JUL 27...	0720	80.0							--	--	--	--		.0	.0		.00	.00
AUG 17...	0845	3.00							--	--	--	--		.0	.0		.00	.00
AUG 17...	0850	74.0							--	--	--	--		.0	.0		.00	.00
AUG 17...	0857	1.60							96.0	25.0	--	--	800	--	--		--	--
AUG 19...	1236	1.60							72.0	--	--	--		--	--		--	--
SEP 10...	1720	1.60							84.0	--	--	--		--	--		--	--
SEP 21...	0849	1.60							84.0	--	--	--		--	--		--	--
SEP 21...	0852	3.00							--	--	--	--		.0	.0		.00	.00

APPENDIX A
 390200076124100 - CHESAPEAKE BAY NR POTOMAC R / PT LOOKOUT TRENCH --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON ACEOUS (M3/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROS. DAYS LAGTIME AT 20C (92135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/LD) (00321)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	DEOXY- GENA- TION CON- STANT KI TO BASE E (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
OCT 22...	--	--	--	--	--	4.2	.14	--	--	3300
NOV 17...	--	--	--	--	--	2.6	.17	--	--	8400
17...	.21	1.5	9.0	.12	--	2.8	--	--	--	4500
DEC 15...	--	--	--	--	--	4.6	.08	--	--	8200
MAR 03...	--	--	--	--	--	4.7	.10	--	--	20000
MAY 20...	--	--	--	--	--	--	--	--	--	14000
JUN 01...	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	3.1	.09	--	--	--
15...	.10	2.3	--	.00	--	2.3	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	.14	2.0	10.7	.40	.90	2.9	--	--	--	>1400
27...	.09	2.2	.00	.00	.00	2.2	--	--	--	>2200
AUG 17...	.12	1.3	2.6	.21	2.0	3.3	--	--	--	>1900
17...	.09	2.2	2.5	.27	.96	3.0	--	--	--	>210
17...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
SEP 10...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	.12	3.1	.03	.09	.93	4.0	--	--	--	>6200

380200076153000 - CHESAPEAKEBAY VR POTOMAC RIVER OFF PT LOOKOUT
 APPENDIX A
 WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SAMPLE LOCATION, CROSS SECTION (FT FMI) L BANK (00009)	TRANS- PAR- ENCY (SECCHI DISK) (TN) (00077)	LIGHT DEPTH TO 1% OF SURFACE LIGHT (FEET) (00034)	LIGHT DEPTH TO 10% OF SURFACE LIGHT (FEET) (00198)	LIGHT DEPTH TO 50% OF SURFACE LIGHT (FEET) (00199)	LIGHT DEPTH TO 700NM INTENS. (U-EINS) /SQM/S (00200)	OXYGEN DEMAND, IMMEDIATE (MG/L) (00302)	OXYGEN DEMAND, BIOCHEMICAL CARBON. DAYS LAGTIME AT 20C (82135)
JAN 17...	1710	3.00	--	--	--	--	--	--	.0	.00
JAN 17...	1711	1.00	--	57.0	--	--	--	--	--	--
FEB 18...	0835	3.00	--	50.0	--	--	--	--	.0	.00
MAR 17...	0740	3.00	--	72.0	--	--	--	--	.0	.00
APR 25...	0650	3.00	--	96.0	--	--	--	--	.0	.00
MAY 22...	1215	3.00	--	10A	--	--	--	--	.0	.00
MAY 22...	1220	39.0	--	--	--	--	--	--	.0	.00
JUN 10...	1149	3.00	--	58.0	--	--	--	--	--	--
JUN 16...	0845	3.00	--	--	--	--	--	--	.0	.00
JUN 16...	1135	--	--	--	--	--	--	--	.3	.93
JUL 22...	1645	3.00	--	--	--	--	--	--	.0	.00
AUG 18...	0845	3.00	--	102	24.0	--	--	90.0	.9	1.3
SEP 18...	1340	3.00	--	114	23.0	--	--	800	--	--

380200076159000 - CHESAPEAKEBAY NR POTOMAC RIVER OFF PT LOOKOUT ---Cont.

APPENDIX A

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEOXYGE NATION CARBON KI TO BASE E PER DAY AT 20C (92133)	OXYGEN DEMAND, BIOCHEM ULT. CARBON ACEOUS (MG/L) (00320)	OXYGEN DEMAND, BIOCHEM NITROG. KI TO BASE E PER DAY AT 20C (92135)	DEOXYGE NATION NITROG. KI TO BASE E PER DAY AT 20C (82132)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00321)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00319)	OXYGEN DEMAND, BIOCHEM NITROG. ULT. (MG/L) (00325)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	STREPTO- COCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML) (60050)
JAN 17...	.22	3.9	11.0	.22	1.2	5.0	--	--	--	24000
JAN 17...	--	--	--	--	--	--	--	--	--	--
FEB 18...	--	--	--	--	--	4.4	.09	--	--	31000
MAR 17...	--	--	--	--	--	4.0	.18	--	--	15000
APR 25...	.07	5.5	--	.00	.00	5.5	--	--	--	23000
MAY 22...	--	--	--	--	--	5.0	.07	--	--	--
MAY 22...	.10	4.7	--	--	--	4.7	--	--	--	18000
JUN 10...	--	--	--	--	--	--	--	--	--	--
JUN 16...	.22	4.0	--	--	--	16	--	--	--	--
JUN 16...	.67	.7	--	.04	6.6	4.0	--	--	--	--
JUL 22...	.17	4.3	5.9	.68	2.0	6.9	--	--	--	<17000
AUG 18...	--	--	--	--	--	4.1	.16	--	--	--
SEP 18...	--	--	--	--	--	--	--	--	--	--

APPENDIX B - Cross-section averages

385315077031400 - POTOMAC RIVER AT MEMORIAL BRIDGE
 APPENDIX B

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOCATION CROSS SECTION (FIT FM L BANK) (00009)	AREA WTD AVE (JMHOS) (90094)	P-H	TEMPERATURE AREA WTD AVE (DEG C) (90010)	TRANS-PARENCE (SECCI-DISK) X-SECT. AVG. (IN) (90077)	LIGHT DEPTH TO 1% X-SECT. AVG. (FEET) (90034)	LIGHT INCID. 400-700NM X-S.AVG (J-EINS /SQM/S) (90200)	OXYGEN DIS-SOLVED AREA WTD AVE (MG/L) (90300)	CHLORO-PHYLL A FLUORO. MTH COR AREA WTD AVE (US/L) (92209)	PNEOPHY -TIN A FLUORO. METHOD AREA WTD AVE (UG/L) (92213)	CHLORO-PHYLL A FLUORO. MTH UCR AREA WTD AVE (UG/L) (92217)
JUL 04...	1900	50000	277	7.6	27.4	28.0	---	---	7.4	25.2	16.7	33.0
JUL 09...	1712	50000	301	7.2	26.4	26.0	---	---	7.1	---	---	---
JUL 16...	1642	50000	334	7.8	29.3	28.0	---	---	9.1	---	---	---
JUL 23...	0835	50000	270	6.7	29.5	25.5	---	---	4.2	---	---	---
JUL 30...	1000	50000	313	7.5	27.9	24.0	9.75	---	7.0	---	---	---
JUL 30...	1915	50000	314	7.5	28.3	---	---	---	7.7	---	---	---
AUG 04...	0810	50000	339	7.6	28.2	28.5	9.40	---	7.2	---	---	---
AUG 04...	1800	50000	338	7.4	28.7	20.5	7.10	120	5.3	---	---	---
AUG 05...	0730	50000	347	7.3	28.8	25.0	---	---	7.1	---	---	---
AUG 05...	1900	50000	---	---	---	29.0	---	---	---	---	---	---
AUG 06...	0730	50000	331	7.3	28.7	29.5	7.75	---	5.3	---	---	---
AUG 06...	1740	50000	---	---	---	35.5	9.80	---	---	---	---	---
AUG 07...	0830	50000	315	7.0	29.1	33.0	8.13	---	6.9	---	---	---
AUG 07...	1745	50000	313	7.1	29.7	35.0	10.8	---	6.9	---	---	---
AUG 08...	0710	50000	309	7.4	29.4	36.5	10.3	---	5.9	---	---	---
AUG 08...	1750	50000	316	7.6	30.4	33.5	9.87	---	7.4	---	---	---
AUG 11...	1845	475	---	---	---	33.0	---	---	---	---	---	---
AUG 13...	0834	50000	310	7.5	29.3	28.5	7.25	550	5.4	---	---	---
AUG 13...	1840	50000	313	7.4	29.8	38.0	11.2	---	5.5	---	---	---
AUG 20...	0845	50000	---	---	---	24.5	6.00	525	---	---	---	---
AUG 20...	1920	50000	345	7.4	25.3	35.0	---	---	6.9	5.40	5.60	8.00
SEP 03...	2000	50000	285	7.7	28.9	42.0	---	---	6.9	14.8	5.40	17.2
SEP 15...	1345	50000	353	8.0	25.6	36.0	10.8	545	8.5	28.8	8.50	32.5

APPENDIX B
 385315077031900 - POTOMAC RIVER AT MEMORIAL BRIDGE ---Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOC- ATION CROSS SECTION (FIT FM L BANK) (00009)	SPECIF- IC CON- DUCTAN- CE	AREA MTG AVE (UMHDS) (90094)	PH	TEMPER- ATURE	TRANS- PARENCY (SECCI DISK)	LIGHT DEPTH TO 1%	LIGHT INCID. 400- 700NM	OXYGEN DIS- SOLVED AREA	CHLORO- PHYLL A FLURO. MTH COR AREA WTD AVE (US/L) (92209)	PMEOPHY -TYN A FLURO. METHOD AREA WTD AVE (US/L) (92213)	CHLORO- PHYLL A FLURO. MTH UCR AREA WTD AVE (US/L) (92217)
OCT 02....	1200	50000	452	7.7	21.7	48.0	17.0	925	7.9	2.80	2.60	4.00	
DEC 16....	1703	1180	--	--	--	--	73.0	2.00	--	--	--	--	
JUL 08....	2150	50000	323	8.3	27.8	--	--	--	8.4	53.1	16.8	60.5	
20....	0930	50000	301	8.1	27.9	42.0	--	--	7.9	42.2	12.9	47.8	
21....	2140	50000	307	8.3	28.5	--	--	--	9.0	48.7	9.40	54.5	
21....	0815	50000	303	6.8	28.5	39.0	--	--	6.7	25.7	7.70	29.1	
21....	1945	50000	311	7.9	29.1	31.0	8.42	70.0	7.1	32.9	7.10	35.9	
22....	0840	50000	310	7.7	28.3	42.0	7.00	170	5.8	19.4	9.50	23.7	
AUG 06....	1050	50000	350	7.8	27.2	25.5	6.75	155	5.5	36.6	16.1	43.8	
24....	1945	50000	387	7.4	24.4	--	--	--	5.6	19.9	11.5	25.2	
25....	0930	50000	389	5.3	23.9	27.0	6.63	1000	5.4	14.7	12.2	20.4	
25....	2000	50000	385	6.4	24.3	29.5	--	--	5.6	16.9	12.0	22.4	
26....	0915	50000	388	6.2	23.8	23.0	6.50	800	4.9	11.2	11.7	16.7	
26....	1900	50000	389	7.6	24.6	31.5	7.15	135	7.0	23.1	7.30	26.3	

APPENDIX B
 385223077022400 - POTOMAC RIVER AT 14TH STREET BR WASH DC

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOCATION CROSS SECTION (FT FM L BANK) (00009)	SPECIFIC CONDUCTANCE AREA WTD AVE (UMHOS) (90094)	P-H AREA WTD AVE (UNITS) (90400)	TEMPERATURE AREA WTD AVE (DEG C) (90010)	TRANSPARENCY (SECC-DISK) X-SECT. AVG. (IN) (90077)	LIGHT DEPTH TO 1% X-SECT. AVG. (FEET) (90034)	LIGHT ACID. 400-700NM X-S.AVG (J-EINS/SQ4/S) (90200)	OXYGEN DIS-SOLVED AREA WTD AVE (MG/L) (90300)	CHLORO-PHYLL A FLUORO. MTH COR AREA WTD AVE (UG/L) (92209)	PHEOPHY-TIN A FLUORO. METHOD AREA WTD AVE (UG/L) (92213)	CHLORO-PHYLL A FLUORO. MTH UCR AREA WTD AVE (UG/L) (92217)
JUN 17...	1943	50000	265	7.7	23.7	23.5	--	--	8.5	--	--	--
JUN 27...	1638	50000	270	7.7	26.1	33.0	--	--	7.5	--	--	--

APPENDIX B
 385223077022400 - POTOMAC RIVER AT 14TH STREET BR WASH DC ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FIT FM L BANK) (00009)	SPECIF- IC CON- DUCTAN- CE	AREA MTD AVE (UMHOS) (90094)	P-H	TEMPER- ATURE	AREA MTD AVE (DEG C) (90010)	TRANS- PARENCY (SECCI DISK)	X-SECT. AVG. (IN) (90077)	LIGHT DEPTH TO 1%	X-SECT. AVG. (FEET) (90034)	LIGHT INCID. 400- 700NM	X-S.AVG (J-EINS /SQM/S) (90200)	OXYGEN DIS- SOLVED AREA MTD AVE (MG/L) (90300)	CHLORO- PHYLL A FLURO. MTH COR AREA MTD AVE (UG/L) (92209)	PHEOPHY -TIV A FLURO. METHOD AREA MTG AVE (UG/L) (92213)	CHLORO- PHYLL A FLURO. MTH UCR AREA MTG AVE (UG/L) (92217)
OCT 21...	0725	1900	---	---	---	26.0	2.50	2.30	---	---	---	---	---	---	---	---	---
NOV 18...	1555	1900	---	---	---	78.0	17.0	100	---	---	---	---	---	---	---	---	---
DEC 16...	1700	1900	---	---	---	60.0	8.25	3.00	---	---	---	---	---	---	---	---	---
16...	1705	50000	346	8.6	4.7	---	---	---	13.0	---	---	---	---	1.50	2.00	2.70	---
FER 04...	0730	1900	---	---	---	18.0	5.00	20.0	---	---	---	---	---	---	---	---	---
APR 15...	0655	1900	---	---	---	6.0	2.90	420	---	---	---	---	---	---	---	---	---
MAY 19...	0700	1900	---	---	---	30.0	---	---	---	---	---	---	---	---	---	---	---
JUN 30...	0815	1900	---	---	---	20.0	7.00	290	---	---	---	---	---	---	---	---	---
JUL 15...	1810	1900	---	---	---	30.0	7.00	1950	---	---	---	---	---	---	---	---	---
28...	1415	1900	---	---	---	32.0	---	---	---	---	---	---	---	---	---	---	---
AUG 18...	1650	1900	---	---	---	25.0	---	---	---	---	---	---	---	---	---	---	---
SEP 10...	0640	1900	---	---	---	32.0	---	---	---	---	---	---	---	---	---	---	---

APPENDIX B
 385039077012500 - POTOMAC RIVER AT GEISBORO POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOCATION CROSS SECTION (FIT FM L BANK) (00009)	SPECIFIC CONDUCTANCE	PH	TEMPERATURE	TRANSPARENCY (SECCCHI DISK)	LIGHT DEPTH TO 1% X-SECT. AVG. (FEET)	LIGHT INCIDENT. 400-700NM X-S.AVG (J-EINS) /SQM/S	OXYGEN DIS-SOLVED AREA WTD AVE (MG/L) (90300)	CHLORO-PHYLL A FLUORO. MTH COR AREA WTD AVE (UG/L) (92209)	PHAEOPHY -YIN A FLUORO. METHOD AREA WTD AVE (UG/L) (92213)	CHLORO-PHYLL A FLUORO. MTH UCR AREA WTD AVE (UG/L) (92217)
OCT 06...	0740	450	---	---	---	8.0	---	---	---	---	---	---
JUN 17...	1910	50000	265	7.7	24.5	24.0	---	---	7.7	---	---	---
27...	1525	50000	287	7.9	26.8	25.5	---	---	7.9	---	---	---
JUL 04...	1745	50000	290	7.4	27.3	24.0	---	---	7.4	---	---	---
09...	1600	50000	304	6.8	27.5	21.0	---	---	5.3	---	---	---
16...	1615	50000	335	7.7	29.1	---	---	---	8.9	62.9	15.3	69.4
23...	0810	50000	---	---	---	19.5	---	---	---	---	---	---
30...	0915	50000	316	7.0	27.9	24.0	8.75	---	6.4	---	---	---
30...	1845	50000	303	7.2	28.9	20.0	5.50	---	7.5	---	---	---
AUG 04...	0740	50000	322	7.3	28.1	23.0	5.95	---	7.0	---	---	---
04...	1750	50000	325	7.4	29.4	23.0	6.95	---	7.9	---	---	---
05...	0700	50000	---	---	---	23.5	---	---	---	---	---	---
05...	0740	50000	339	7.0	28.7	24.0	---	---	5.2	---	---	---
05...	0830	50000	333	7.1	29.7	26.0	---	---	5.7	---	---	---
05...	0950	50000	328	7.1	29.0	---	---	---	5.8	---	---	---
05...	1140	50000	328	7.2	29.4	30.0	---	---	5.6	---	---	---
05...	1250	50000	340	7.1	29.4	27.0	---	---	5.3	---	---	---
05...	1420	50000	346	7.2	29.8	25.5	---	---	6.4	---	---	---
05...	1540	50000	346	7.0	30.1	24.0	---	---	6.6	---	---	---
05...	1840	50000	343	7.2	29.1	22.0	---	---	6.6	---	---	---
05...	1850	50000	337	7.1	29.0	---	---	---	5.7	---	---	---
06...	0700	50000	344	7.1	28.8	24.0	6.45	---	5.7	---	---	---
06...	0750	50000	354	7.0	28.9	25.0	---	---	5.1	---	---	---
06...	0915	50000	354	7.0	29.1	24.5	---	---	5.0	---	---	---
06...	1015	50000	351	7.0	29.2	27.0	---	---	5.3	---	---	---
06...	1135	50000	346	7.1	29.4	26.5	---	---	5.6	---	---	---
06...	1335	50000	337	7.1	30.0	---	---	---	5.9	---	---	---
06...	1503	50000	343	7.2	30.2	22.0	---	---	5.9	---	---	---
06...	1655	50000	352	7.1	32.2	33.5	---	---	5.9	---	---	---
06...	1710	50000	352	7.2	30.0	24.0	6.50	---	5.3	---	---	---
06...	1755	50000	359	7.1	31.2	23.5	6.50	---	6.3	---	---	---
07...	0800	50000	340	6.9	29.5	23.0	6.00	---	6.9	---	---	---
07...	1715	50000	357	6.9	30.5	19.0	7.15	---	6.7	---	---	---
08...	0640	50000	347	7.1	30.0	23.5	7.55	---	4.6	---	---	---
08...	1730	50000	353	7.4	31.3	23.5	6.25	---	7.1	---	---	---
11...	1830	50000	333	7.0	30.7	21.0	5.75	---	6.0	---	---	---
13...	0800	50000	331	7.5	29.3	21.0	5.00	375	4.9	---	---	---
13...	1800	50000	328	7.6	30.0	21.0	7.00	---	7.4	---	---	---
20...	0825	50000	328	7.4	25.9	17.5	4.00	500	5.4	---	---	---

385039077012500 - POTOMAC RIVER AT GEISBORO POINT --Cont.

APPENDIX B

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOCATION CROSS SECTION (FT FM L BANK) (00009)	SPECIFIC CONDUCTANCE	PH	TEMPERATURE	TRANS-PARENCY (SECCI DISK)	LIGHT DEPTH TO 1% X-SECT. AVG. (FEET)	WEIGHT INCID. 400-700NM X-SECT. AVG. (JULIENS /SQM/S)	OXYGEN DIS-SOLVED AREA WTD AVEI (MG/L)	CHLORO-PHYLL A FLUORO. MTH COR AREA WTD AVEI (US/L)	CHLORO-PHYLL A FLUORO. MTH UCR AREA WTD AVEI (92209)	PNEOPHY -TIV A FLUORO. METHOD AREA WTD AVEI (92213)	CHLORO-PHYLL A FLUORO. MTH UCR AREA WTD AVEI (92217)
AUG 20...	1850	50000	327	7.2	26.1	24.0	--	--	5.7	--	--	--	--
SEP 03...	1920	50000	323	7.5	28.5	23.0	6.25	51.5	7.3	--	--	--	--
SEP 15...	1410	50000	374	7.2	25.9	23.0	6.50	1000	6.6	--	--	--	--

APPENDIX B
 385039077012500 - POTOMAC RIVER AT GEISBORD POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FIT FM L BANK) (00009)	SPECIFIC CONDUCTANCE AREA WTS AVEI (UMHOS) (90094)	P4 AREA WTD AVE (UNITS) (90400)	TEMPERATURE AREA WTD AVE (DEG C) (90010)	TRANSPARENCY (SECCHI DISK) X-SECT. AVG. (IN) (90077)	LIGHT DEPTH TO 1% X-SECT. (FEET) (90034)	LIGHT INCID. 400-700NM X-S.AVG (J-EINS /SQM/S) (90200)	OXYGEN DIS-SOLVED AREA WTD AVEI (MG/L) (90300)	CHLORO-PHYLL A FLUORO. MTH COR AREA WTD AVE (UG/L) (92209)	PHEOPHY-TIN A FLUORO. METHOD AREA WTD AVEI (UG/L) (92213)	CHLORO-PHYLL A FLUORO. MTH UCR AREA WTD AVE (UG/L) (92217)
OCT 02...	1230	50000	434	6.9	22.7	21.5	7.50	1000	5.2	--	--	--
21...	0755	375	--	--	--	17.0	3.90	46.0	--	--	--	--
NOV 18...	1525	375	--	--	--	24.0	--	--	--	--	--	--
DEC 16...	1640	50000	342	8.0	5.4	54.0	--	--	11.9	--	--	--
FEB 04...	0840	375	--	--	--	36.0	6.00	450	--	--	--	--
MAR 04...	1030	375	--	--	--	27.0	--	--	--	--	--	--
APR 15...	0725	375	--	--	--	9.0	2.60	--	--	--	--	--
MAY 19...	0725	375	--	--	--	23.0	--	105'	--	--	--	--
JUN 30...	0845	375	--	--	--	24.0	6.50	1100	--	--	--	--
JUL 08...	2255	50000	324	7.8	27.3	--	--	--	8.3	--	--	--
20...	0855	50000	327	7.2	28.6	36.0	--	--	5.5	--	--	--
20...	2045	50000	309	7.7	29.0	24.5	--	--	7.6	--	--	--
21...	0745	50000	293	7.8	27.7	30.0	--	--	5.8	--	--	--
21...	1845	50000	295	9.3	29.2	29.0	6.45	330	8.8	--	--	--
22...	0815	50000	298	7.9	28.2	34.0	6.25	170	7.7	--	--	--
28...	1330	375	--	--	--	25.0	--	--	--	--	--	--
AUG 06...	1115	50000	350	7.8	27.2	21.0	5.00	135	5.9	--	--	--
18...	1620	375	--	--	--	24.0	--	--	--	--	--	--
24...	1915	50000	406	7.5	24.7	--	--	--	7.6	--	--	--
25...	0900	50000	404	5.4	24.2	18.5	4.65	700	5.7	--	--	--
25...	1925	50000	410	5.6	25.0	23.5	4.90	27.0	8.0	54.3	50.8	--
26...	0845	50000	405	5.3	24.2	18.5	4.65	625'	5.6	--	--	--
26...	1825	50000	425	7.5	25.5	22.5	4.80	270	8.9	--	--	--

384852077020500 - POTOMAC RIVER AT MARBURY POINT

APPENDIX B

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L RANK)	SPECIF- IC CON- DUCTAN- CE	AREA MTG. AVE (UMHS)	P4	AREA MTD AVE (JUNITS)	TEMPER- ATURE	AREA MTD AVE (DEG C)	TRANS- PARENCY (SECC-H DISK)	X-SECT. AVG. (IN)	LIGHT DEPTH TO 1% X-SECT. AVG. (FEET)	700NM X-S.AVG (J-EINS /SQM/S)	OXYGEN DIS- SOLVED AREA MTD AVE (MG/L)	CHLORO- PHYLL A FLUORO. MTH COR AREA MTD AVE (UG/L)	PREOPHY -TIN A FLUORO. METHOD AREA MTG AVE (UG/L)	CHLORO- PHYLL A FLUORO. MTH UCR AREA MTG AVE (UG/L)	
JUN	1800	50000	266	7.9		24.3		24.0					7.9				
	1455	50000	308	7.6		26.2		23.5					7.6				
JUL	1700	50000	299	7.1		27.3		27.5					6.1	17.9	18.9	26.8	
	1630	50000	309	7.0		27.9		22.0					4.9				
	2120	50000	293	7.2		27.3							6.2				
	1515	50000	312	6.7		27.0		21.0					4.9	11.0	16.8	19.0	
	1435	50000	378	7.4		29.3		24.0					8.4	63.2	23.6	73.7	
	0735	50000	332	5.6		29.1		19.5					4.5				
	0850	50000	312	6.8		28.0		25.0		9.50			5.9				
	1810	50000	328	7.0		29.3		20.0		6.25			7.1				
AUG	0710	50000						18.5		2.85							
	1745	50000						19.0		6.50	212						
	0635	50000						24.0									
	0835	50000	342	6.9		29.0		23.0					4.8				
	1105	50000	349	7.0		29.5		23.5					5.6				
	1227	50000	345	6.9		29.4		25.0					5.7				
	0500	50000	338	6.9		29.6		26.0					5.6				
	1520	50000	336	6.8		29.9		23.0					5.5				
	1645	50000	334	6.8		29.9		24.5					5.4				
	1810	50000	344	6.9		29.8		24.5					6.5				
	1825	50000	346	6.8		29.7		24.0					5.0				
	0640	50000						24.5		6.45							
	0815	50000	358	6.9		29.6		23.5					4.2				
	0940	50000	358	7.0		29.3		23.0					4.4				
	0600	50000	357	6.9		29.3		23.0					4.3				
	1110	50000	437	6.7		29.2		23.0					5.6				
	1308	50000	390	6.8		29.7		26.5					5.9				
	1440	50000	390	6.8		29.7		26.5					5.9				
	1627	50000	348	6.7		31.1		23.5					6.5				
	1650	50000	338	6.9		30.1		24.0		6.50			6.5				
	1740	50000	342	6.7		31.4		23.0					4.5	30.0	12.4	35.6	
	0700	50000	339	6.5		29.9		30.0		8.00			5.7				
	1645	50000	349	6.8		30.5		21.0		7.50			6.4				
	0630	50000						23.5		6.75							
	1715	50000	353	7.1		30.8		23.0		6.33			4.3				
	1815	50000	347	6.8		31.0		21.0		6.50			5.6				
	0730	50000						22.5		5.75							
	1730	50000	344	7.4		30.0		19.5		6.77			6.5				
	0800	50000	339	7.3		26.1		15.0		2.75			5.1				
	1810	50000	344	7.1		26.8		23.0		1.75			4.9				

APPENDIX B
 394852077020500 - POTOMAC RIVER AT MARBURY POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOCATION, CROSS SECTION L RANK) (00009)	SPECIFIC CONDUCTANCE	PH	TEMPERATURE	TRANSPARENCY (SECCI DISK)	LIGHT DEPTH TO 1% X-SECT. AVG. (FEET)	LIGHT INCIDENT, 400-700NM X-S.AVG (J-EINS/SQW/S)	OXYGEN DIS-SOLVED AREA WTD AVE (MG/L)	CHLORO-PHYLL A FLUORO. MTH COR AREA WTD AVE (UG/L)	PHEOPHY-TIN A FLUORO. METHOD AREA WTD AVE (UG/L)	CHLORO-PHYLL A FLUORO. MTH UCR AREA WTD AVE (UG/L)
SEP 03...	1830	50000	355	7.0	29.2	19.5	5.25	--	5.7	--	--	--
SEP 15...	1430	50000	377	7.0	25.8	21.0	5.50	--	5.8	--	--	--

394852077020500 - POTOMAC RIVER AT MARBURY POINT ---Cont.
 APPENDIX B

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOCATION CROSS SECTION (FT FM L BANK) (00009)	SPECIFIC CONDUCTANCE AREA WTS AVEI (UMHOS) (90094)	TEMPERATURE AREA WTD AVE (DEG C) (90010)	TRANS-PARENCE (SECC-HI DISK) X-SECT. AVG. (IN) (90077)	LIGHT DEPTH TO 1% X-SECT. AVG. (FEET) (90034)	LIGHT INCID. 400-700NM X-S.AVG (J-EINS /SQM/S) (90200)	OXYGEN DIS-SOLVED WTD AVEI (MG/L) (90300)	CHLORO-PHYLL A FLUORO. MTH COR AREA WTD AVE (UG/L) (92209)	PHEOPHY-TIN A FLUORO. METHOD AREA WTD AVEI (UG/L) (92213)	CHLORO-PHYLL A FLUORO. MTH UCR AREA WTD AVE (UG/L) (92217)	
OCT 02...	1315	50000	437	6.8	22.9	26.0	8.75	615	5.0	10.3	8.60	14.3
21...	0825	50000	492	6.9	18.3	28.0	5.00	220	7.2	16.7	6.80	19.8
NOV 18...	1515	50000	498	7.8	9.2	26.0	7.80	180	9.9	--	--	--
DEC 16...	1550	50000	338	7.9	7.4	29.5	9.50	35.0	11.2	--	--	--
FER 04...	0855	1200	--	--	--	48.0	11.0	450	--	--	--	--
MAR 25...	1400	50000	--	--	--	24.0	--	--	--	--	--	--
APR 15...	0735	1200	--	--	--	12.0	4.10	1550	--	--	--	--
JUL 08...	2220	50000	344	7.4	27.7	--	--	--	8.3	--	--	--
20...	0825	50000	316	7.0	28.6	32.0	--	--	5.8	--	--	--
20...	2000	50000	314	7.5	29.2	27.5	--	--	7.6	--	--	--
21...	0730	50000	311	7.4	28.4	30.0	--	--	6.4	--	--	--
21...	1800	50000	301	8.3	29.9	24.0	5.71	550	8.3	--	--	--
22...	0750	50000	317	7.4	28.4	30.0	6.25	275	7.0	--	--	--
AUG 06...	1155	50000	375	7.6	27.8	18.0	4.75	150	6.4	--	--	--
18...	1600	50000	358	7.5	25.8	24.0	--	--	6.9	--	--	--
24...	1830	50000	414	7.3	25.1	24.0	--	--	7.4	--	--	--
25...	0820	50000	421	6.3	24.3	20.5	4.70	450	6.5	--	--	--
25...	1900	50000	415	6.7	26.0	22.5	3.70	100	7.8	--	--	--
26...	0815	50000	419	6.3	25.0	18.5	5.20	305	6.9	--	--	--
26...	1800	50000	416	7.7	25.8	18.5	4.00	345	8.9	--	--	--

APPENDIX B

01652590 - POTOMAC R AT ALEXANDRIA, VA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FIT FM L BANK) (00009)	SPECIF- IC CON- DUCTAN- CE	AREA WTD AVE (UMHOS) (90094)	P-H	TEMPER- ATURE AREA WTD AVE (DEG C) (90010)	TRANS- PARENCY (SECCHI DISK) X-SECT. AVG. (IN) (90077)	LIGHT DEPTH TO 1% X-SECT. AVG. (FEET) (90034)	LIGHT INCID. 400- 700NM X-S-AVG (J-EINS /SQM/S) (90200)	OXYGEN DIS- SOLVED AREA WTD AVE (MG/L) (90300)	CHLORO- PHYLL A FLUORO. MTH COR AREA WTD AVE (UG/L) (92209)	PHEOPHY -YIN A FLUORO. METHOD AREA WTD AVE (UG/L) (92213)	CHLORO- PHYLL A FLUORO. MTH UCR AREA WTD AVE (UG/L) (92217)
JUN	0203	30000	312	7.2	22.5	--	--	--	7.5	--	--	--	--
14...	0230	40000	275	7.9	23.0	--	--	--	9.0	--	--	--	--
14...	1018	30000	300	7.3	22.9	--	--	--	7.7	--	--	--	--
14...	1042	40000	280	7.9	22.0	--	--	--	8.9	--	--	--	--
14...	1200	30000	335	7.2	22.6	--	--	--	8.5	--	--	--	--
14...	1540	40000	280	7.9	22.5	--	--	--	9.5	--	--	--	--
14...	1945	30000	300	9.0	23.8	--	--	--	10.5	--	--	--	--
14...	2025	40000	278	9.1	23.3	--	--	--	9.7	--	--	--	--
14...	2220	30000	313	7.5	23.2	--	--	--	8.6	--	--	--	--
14...	2255	40000	270	8.0	22.9	--	--	--	9.7	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FIT FM L BANK) (000009)	SPECIFIC CONDUCTANCE	PH	TEMPERATURE	TRANS-PARENCY (SECCHI DISK)	LIGHT DEPTH TO 1% X-SECT. AVG. (FEET)	LIGHT INCID. 400-700NM X-S.AVG (J-EINS /SQM/S)	OXYGEN DIS-SOLVED AREA WTD AVE (MG/L)	CHLORO-PHYLL A FLUORO. MTH COR AREA WTD AVE (US/L)	CHLORO-PHYLL A FLUORO. MTH UCR AREA WTD AVE (UG/L)	CHLORO-PHYLL A FLUORO. MTH UCR AREA WTD AVE (UG/L)
OCT 06...	0815	3400	---	---	---	7.0	---	---	---	---	---	---
DEC 20...	1125	3400	---	---	---	38.0	---	---	---	---	---	---
APR 22...	0940	3400	---	---	---	24.0	---	---	---	---	---	---
APR 22...	1030	500	---	---	---	22.0	---	---	---	---	---	---
MAY 06...	0800	3400	---	---	---	18.0	---	---	---	---	---	---
MAY 06...	0810	500	---	---	---	18.0	---	---	---	---	---	---
MAY 06...	1030	500	---	---	---	18.0	---	---	---	---	---	---
MAY 06...	1035	3400	---	---	---	18.0	---	---	---	---	---	---
MAY 08...	1900	500	---	---	---	24.0	---	---	---	---	---	---
MAY 08...	1910	3400	---	---	---	24.0	---	---	---	---	---	---
MAY 12...	1055	500	---	---	---	28.0	---	---	---	---	---	---
MAY 12...	1100	3400	---	---	---	28.0	---	---	---	---	---	---
MAY 12...	1425	500	---	---	---	28.0	---	---	---	---	---	---
MAY 12...	1430	3400	---	---	---	24.0	---	---	---	---	---	---
MAY 19...	0945	3400	---	---	---	30.0	---	---	---	---	---	---
MAY 19...	1005	500	---	---	---	18.0	---	---	---	---	---	---
JUN 17...	1725	600	---	---	---	20.0	---	---	---	---	---	---
JUN 17...	1805	40000	270	7.9	24.1	19.5	---	---	7.5	---	---	---
JUN 19...	1740	40000	258	7.5	23.5	---	---	---	7.5	---	---	---
JUN 19...	1750	30000	342	6.9	24.5	---	---	---	7.0	---	---	---
JUN 19...	19...	40000	277	7.8	22.9	---	---	---	8.9	---	---	---
JUN 19...	2130	30000	338	7.4	24.0	---	---	---	8.1	---	---	---
JUN 27...	1325	30000	334	7.1	26.0	22.0	---	---	5.5	---	---	---
JUN 27...	1400	40000	314	7.3	25.6	24.0	---	---	6.2	---	---	---
JUL 04...	1525	30000	333	6.9	27.4	26.5	---	---	5.0	---	---	---
JUL 04...	1600	40000	305	6.8	27.3	30.0	---	---	5.4	---	---	---
JUL 07...	1215	3400	---	---	---	46.0	---	---	---	---	---	---
JUL 07...	1240	500	---	---	---	31.0	---	---	---	---	---	---
JUL 09...	1350	30000	326	6.5	27.6	22.5	---	---	5.0	---	---	---
JUL 09...	1430	40000	302	6.6	26.5	18.0	---	---	4.6	---	---	---
JUL 10...	1115	500	---	---	---	25.0	---	---	---	---	---	---
JUL 10...	1215	3400	---	---	---	24.0	---	---	---	---	---	---
JUL 15...	1830	3400	---	---	---	18.0	---	---	---	---	---	---
JUL 15...	1900	500	---	---	---	17.0	---	---	---	---	---	---
JUL 16...	1340	30000	354	7.3	29.4	24.0	---	---	9.2	68.1	23.1	78.4
JUL 16...	1415	40000	371	6.8	28.5	27.5	---	---	6.7	---	---	---
JUL 23...	0600	30000	341	6.6	28.9	19.5	---	---	5.7	---	---	---
JUL 23...	0630	40000	323	6.5	29.4	23.5	---	---	4.7	---	---	---
JUL 23...	1645	30000	336	5.6	29.0	21.0	---	---	5.7	---	---	---

APPENDIX B
 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

01652590

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOC- TION, CROSS SECTION (FT FM L RANK)	SECTION AREA WTG AVE (UMHOS)	AREA WTG AVE (90400)	P-4	TEMPER- ATURE	AREA WTG AVE (90010)	TRANS- PARENCY (SECCI DISK)	X-SECT. AVG. (IN)	AREA WTG AVE (90034)	LIGHT INCID. 400- 700NM	X-S-AVG (J-EINS /SQM/S)	OXYGEN DIS- SOLVED AREA WTG AVE (MG/L)	CHLORO- PHYLL A FLUORO. MTH COR AREA WTG AVE (US/L)	PHEOPHY -TIN A FLUORO. METHOD AREA WTG AVE (UG/L)	CHLORO- PHYLL A FLUORO. MTH UCR AREA WTG AVE (UG/L)	
JUL	1720	40000	318	5.4		29.3		25.5					3.7				
23...	0701	40000	293	6.6		28.1		24.0	8.00				5.7				
30...	1625	30000	315	6.8		29.9		24.0	6.00				7.3				
30...	1715	40000	318	6.8		28.8		26.0	6.00				6.7				
AUG	0610	30000	352	6.9		27.9		19.5	3.80				6.9				
04...	0640	40000	331	6.9		28.7		23.0	3.40				6.1				
04...	1630	30000	335	7.2		30.0		19.0	4.78			250	9.2				
04...	1730	40000	321	6.8		29.6		20.0	6.50				5.4				
05...	0545	30000	--	--		--		20.0	--				--				
05...	0600	40000	337	6.8		29.2		24.0	6.50				6.6				
05...	0630	30000	367	6.7		28.7		24.0	--				5.8				
05...	0710	40000	347	6.6		29.1		27.0	--				4.2				
05...	0755	30000	357	6.7		28.9		27.0	--				5.3				
05...	0840	40000	--	--		--		24.0	--				--				
05...	0930	30000	359	6.7		29.4		24.0	--				5.4				
05...	1010	40000	351	5.8		29.5		25.5	--				4.7				
05...	1125	30000	363	5.8		29.9		25.5	--				6.3				
05...	1145	40000	352	6.8		29.7		22.5	--				5.2				
05...	1300	30000	357	6.8		30.1		22.5	--				7.4				
05...	1325	40000	344	6.5		30.2		25.5	--				4.3				
05...	1615	30000	346	6.9		29.7		24.5	5.50				7.1				
05...	1645	40000	324	6.6		29.7		24.0	6.45				6.5				
05...	1835	30000	354	6.9		29.7		21.0	--				7.9				
05...	1845	40000	338	6.6		29.6		27.0	--				4.9				
06...	0545	30000	345	7.0		28.7		18.0	--				5.8				
06...	0610	40000	313	6.6		28.9		25.5	8.20				4.0				
06...	0630	30000	358	5.7		29.1		24.0	--				6.0				
06...	0700	40000	332	6.3		29.1		27.0	--				4.0				
06...	0810	30000	373	6.6		28.8		24.0	--				4.9				
06...	0847	40000	349	6.5		29.5		28.5	--				3.7				
06...	0940	30000	366	6.6		29.1		27.0	--				4.6				
06...	1000	40000	353	5.7		29.7		30.0	--				4.0				
06...	1110	30000	371	6.6		29.7		27.0	--				5.5				
06...	1137	40000	360	5.7		28.7		28.5	--				4.3				
06...	1240	30000	367	6.8		30.2		24.0	--				6.5				
06...	1310	40000	358	5.7		29.9		21.0	--				4.5				
06...	1425	30000	358	6.7		30.5		24.0	--				6.8				
06...	1445	40000	356	6.6		30.3		21.0	--				4.6				
06...	1540	30000	350	6.8		30.4		21.0	--				6.9				
														112		18.0	119

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LDC- ATION, CROSS SECTION (FIT FM L BANK)	SPECIF- IC CON- DUCTAN- CE	AREA WTD AVE (UWHS)	P-H	TEMPER- ATURE	TRANS- PARENCY (SECCHI DISK)	LIGHT DEPTH TO 1%	LIGHT INCLD. 400- 700NM	OXYGEN DIS- SOLVED	CHLORO- PHYLL A FLUORO. MTH UCR	PHEOPHY- -TIN A FLURO. METHOD	CHLORO- PHYLL A FLURO. MTH UCR
		AREA WTD AVE (UNITS)	(90400)	AREA WTD AVE (DEG C)	(90010)	X-SECT. AVG. (IN)	(90077)	X-S.AVG (J-EINS /SQM/S)	(90200)	AREA WTD AVE (MG/L)	(90300)	AREA WTD AVE (US/L)	(92213)
AUG	06...	40000	344	6.5	30.5	--	--	--	--	6.2	--	--	--
	06...	30000	338	7.3	30.5	--	--	--	--	8.4	--	--	--
	06...	40000	321	6.7	30.0	24.5	7.00	7.00	7.00	6.5	--	--	--
	06...	30000	359	6.9	30.5	21.5	5.00	5.00	5.00	7.9	--	--	--
	06...	40000	327	5.3	30.0	25.5	--	--	--	4.9	--	--	--
	06...	30000	352	7.2	30.2	21.0	--	--	--	9.6	--	--	--
	06...	40000	337	6.5	29.9	28.5	--	--	--	4.8	--	--	--
	06...	30000	375	30.4	30.4	21.0	--	--	--	9.8	--	--	--
	06...	40000	347	5.6	30.4	27.0	--	--	--	4.5	--	--	--
	07...	30000	342	6.7	29.5	24.0	6.50	6.50	6.50	5.9	--	--	--
	07...	40000	309	5.3	29.4	23.5	7.13	7.13	7.13	6.2	--	--	--
	07...	30000	350	5.9	30.9	18.0	6.10	6.10	6.10	7.8	--	--	--
	07...	40000	337	6.6	30.8	24.0	7.60	7.60	7.60	6.5	--	--	--
	08...	30000	333	7.0	29.6	22.0	--	--	--	4.9	--	--	--
	08...	40000	310	6.8	29.5	23.5	--	--	--	3.9	--	--	--
	08...	30000	355	7.2	31.1	19.5	5.25	5.25	5.25	10.1	--	--	--
	08...	40000	331	7.1	31.5	18.5	5.39	5.39	5.39	7.8	--	--	--
	11...	30000	340	6.8	31.6	18.5	5.00	5.00	5.00	9.3	--	--	--
	11...	40000	343	6.6	30.9	18.0	5.63	5.63	5.63	5.1	--	--	--
	13...	30000	357	7.3	28.9	22.5	--	--	--	4.8	--	--	--
	13...	40000	--	--	--	24.0	6.25	35.5	35.5	--	--	--	--
	13...	30000	--	--	--	21.0	7.50	6.75	6.75	--	--	--	--
	13...	40000	350	7.3	30.1	21.0	6.88	6.88	6.88	5.6	--	--	--
	19...	500	--	--	--	34.0	--	--	--	--	--	--	--
	19...	3400	--	--	--	30.0	--	--	--	--	--	--	--
	20...	30000	381	7.0	25.8	18.5	1.00	1.00	1.00	4.4	--	--	--
	20...	40000	342	7.1	26.2	21.0	1.85	1.85	1.85	3.7	--	--	--
	20...	30000	358	7.0	26.3	24.5	4.50	4.50	4.50	5.5	--	--	--
	20...	40000	330	6.8	26.3	25.0	4.75	4.75	4.75	4.0	--	--	--
	25...	30000	371	7.1	26.8	12.0	--	--	--	7.2	--	--	--
	25...	40000	355	6.9	26.9	--	--	--	--	6.4	--	--	--
	28...	30000	429	7.0	27.9	23.0	9.00	1350	1350	7.1	--	--	--
	28...	40000	403	6.9	27.5	23.0	8.40	1350	1350	5.5	--	--	--
SEP	03...	30000	399	7.1	29.9	28.5	4.75	725	725	7.7	--	--	--
	03...	40000	371	6.7	29.0	27.5	7.75	--	--	4.8	--	--	--
	04...	30000	433	6.6	28.7	23.0	--	--	--	5.7	--	--	--
	04...	40000	408	6.4	29.0	30.0	--	--	--	4.5	--	--	--
	08...	30000	390	6.5	27.7	30.0	--	--	--	5.4	--	--	--
	08...	40000	357	6.6	27.9	32.0	--	--	--	5.1	--	--	--

APPENDIX B
 POTOMAC R AT ALEXANDRIA, VA. --Cont.

01652590

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LDC- ATION, CROSS SECTION (FIT FM L BANK)	SECTION (00009)	AREA WTG AVEI (UMHS)	P-1 (90094)	TEMPER- ATURE AREA WTG AVE (DEG C)	(90010)	TRANS- PARENCY (SECCI DISK)	X-SECT. AVG. (IN)	(90077)	LIGHT DEPTH TO 1%	X-SECT. AVG. (FEET)	(90034)	WIGHT INCID. 400- 700NM	X-S.AVG (J-EINS /SQM/S)	(90200)	OXYGEN DIS- SOLVED AREA WTG AVEI (MG/L)	(90300)	CHLORO- PHYLL A FLURO. MTH COR AREA WTG AVEI (US/L)	(92209)	PHEOPHY -YIN A FLURO. METHOD AREA WTG AVEI (US/L)	(92213)	CHLORO- PHYLL A FLURO. MTH UCR AREA WTG AVEI (U6/L)	(92217)	
SEP 11...	1940	30000	381	7.0	25.6	22.0	--	--	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 11...	2000	40000	352	6.8	25.7	--	--	--	5.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 15...	1500	40000	356	6.8	26.5	24.0	9.00	1100	4.9	9.00	1100	6.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 15...	1525	30000	397	6.9	26.3	21.5	8.70	1100	6.0	8.70	1100	6.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 16...	1600	3700	--	--	--	28.0	9.00	150	--	9.00	150	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 16...	1620	500	--	--	--	28.0	6.50	250	--	6.50	250	--	--	--	--	--	--	--	--	--	--	--	--	--	--

01652590

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPECIF- IC CON- DUCTAN- CE	AREA WTS AVE (UMHOS) (90094)	P-4 AREA WTD AVE (UNITS) (90400)	TEMPER- ATURE AREA WTD AVE (DEG C) (90010)	TRANS- PARENCY (SECCI- DISK) X-SECT. AVG. (IN) (90077)	LIGHT DEPTH TO 1% X-SECT. AVG. (FEET) (90034)	LIGHT INCID. 400- 700NM X-S.AVG (JM-EINS /50M/S) (90200)	OXYGEN DIS- SOLVED AREA WTD AVE (MG/L) (90300)	CHLORO- PHYLL A FLUORO. MTH COR AREA WTD AVE (US/L) (92209)	PMEOPHY -TIN A FLUORO. METHOD AREA WTD AVE (US/L) (92213)	CHLORO- PHYLL A FLUORO. MTH UCR AREA WTD AVE (UG/L) (92217)
OCT													
02...	1335	40000	415	6.7	22.7	27.5	9.50	725	4.8				
02...	1400	30000	436	5.8	22.8	28.0	13.3	460	4.9				
15...	0940	40000	430	7.2	16.0	39.5			6.7				
15...	0955	30000	457	7.2	15.9	36.0			7.4				
21...	0900	40000	474	6.8	17.5	28.0	5.10	340	7.1	13.3	8.30	17.1	
21...	0930	500				18.0	3.00	520					
27...	1030	40000	455	7.2	13.1				9.4				
27...	1115	30000	474	7.3	12.9				9.2				
NOV													
06...	1100	3400				41.0							
06...	1130	500				41.0							
18...	1440	40000	509	7.7	9.8	25.0	7.50	175	9.8				
25...	1355	3400				24.0							
DEC													
08...	1145	3400				25.0							
08...	1200	500				25.0							
16...	1455	30000	368	7.6	6.6	28.0	11.5	170	10.9				
16...	1530	40000	348	7.8	6.1	31.5	8.00	90.0	10.9				
29...	1015	3400				43.0							
29...	1030	500				38.0							
JAN													
15...	1320	500				72.0							
23...	1335	600				42.0							
23...	1355	3400				46.0							
28...	1200	500				60.0							
28...	1210	3400				48.0							
FER													
02...	1420	500				66.0							
04...	0920	3400				48.0	9.00	500					
04...	0950	500				48.0	13.0	850					
11...	1120	500				18.0							
17...	1200	3400				12.0							
23...	1225	500				12.0							
23...	1300	3400				12.0							
25...	1555	500				6.0							
25...	1640	3400				6.0							
26...	1545	500				5.0							
26...	1600	3400				5.0							
27...	1040	500				24.0							
MAR													
04...	0945	500				24.0							
04...	1000	3400				24.0							
11...	1030	3400				24.0							
18...	0705	3400				27.0							

APPENDIX B
 -- POTOMAC R AT ALEXANDRIA, VA. --Cont.

01652590

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOC- TION, CROSS SECTION (FT FM L BANK) (00009)	SPECIF- IC CON- DJCTAN- CE	AREA WTS AVEI (UMHOS) (90094)	P-4 AREA WTD AVE (UNITS) (90400)	TEMPER- ATURE AREA WTD AVE (DEG C) (90010)	TRANS- PAREN- CY (SECCI DISK) X-SECT. AVG. (IN) (90077)	LIGHT DEPTH TO 1% X-SECT. AVG. (FEET) (90034)	LIGHT INCID. 400- 700NM X-S.AVG (J-EINS /SQM/S) (90200)	OXYGEN DIS- SOLVED AREA WTD AVEI (MG/L) (90300)	CHLORO- PHYLL A FLUORO. MTH COR AREA WTD AVE (U3/L) (92209)	PHEOPHY -TIN A FLUORO. METHOD AREA WYG AVE (UG/L) (92213)	CHLORO- PHYLL A FLUORO. MTH UCR AREA WTD AVE (UG/L) (92217)
MAR													
18...	0725	600	---	---	---	30.0	---	---	---	---	---	---	---
24...	1118	3400	---	---	---	35.0	---	---	---	---	---	---	---
25...	1530	3400	---	---	---	30.0	---	---	---	---	---	---	---
25...	1550	600	---	---	---	36.0	---	---	---	---	---	---	---
31...	1340	500	---	---	---	22.0	---	---	---	---	---	---	---
31...	1350	3400	---	---	---	16.0	---	---	---	---	---	---	---
APR													
06...	1245	500	---	---	---	18.0	---	---	---	---	---	---	---
15...	0745	3400	---	---	---	12.0	4.10	1500	---	---	---	---	---
15...	0815	500	---	---	---	19.0	4.40	1600	---	---	---	---	---
28...	1235	3400	---	---	---	24.0	---	---	---	---	---	---	---
28...	1320	500	---	---	---	36.0	---	---	---	---	---	---	---
MAY													
04...	0810	3400	---	---	---	18.0	---	---	---	---	---	---	---
04...	0825	600	---	---	---	17.0	---	---	---	---	---	---	---
12...	0915	500	---	---	---	36.0	---	---	---	---	---	---	---
19...	0750	3400	---	---	---	24.0	---	45.0	---	---	---	---	---
19...	0830	500	---	---	---	24.0	6.00	31.0	---	---	---	---	---
26...	1045	3400	---	---	---	30.0	---	---	---	---	---	---	---
JUN													
01...	1830	500	---	---	---	24.0	---	---	---	---	---	---	---
30...	0925	3400	---	---	---	24.0	5.00	1700	---	---	---	---	---
30...	1010	500	---	---	---	24.0	5.50	650	---	---	---	---	---
JUL													
08...	2040	30000	353	7.4	28.1	24.0	7.00	3.75	9.2	---	---	---	---
08...	2120	40000	328	7.7	27.3	---	---	---	8.3	---	---	---	---
15...	1730	500	---	---	---	30.0	5.80	2100	---	---	---	---	---
15...	1740	3400	---	---	---	25.0	5.00	1500	---	---	---	---	---
20...	0730	30000	343	7.2	28.3	28.0	---	---	7.5	58.6	16.6	65.9	---
20...	0750	40000	315	6.7	28.3	33.0	---	---	4.9	---	---	---	---
20...	1820	30000	318	7.6	30.2	16.0	5.00	45.0	9.5	77.9	10.4	91.8	---
20...	1900	40000	316	7.4	29.5	17.0	---	30.0	7.5	---	---	---	---
21...	0630	30000	337	6.9	28.2	33.0	---	---	5.8	---	---	---	---
21...	0650	40000	316	7.2	28.8	34.0	---	---	5.9	---	---	---	---
21...	1700	30000	355	7.7	30.2	29.0	7.00	950	8.4	---	---	---	---
21...	1720	40000	324	7.5	29.6	32.0	6.90	1050	6.9	---	---	---	---
22...	0645	30000	346	6.9	28.1	30.0	1.50	79.0	5.7	---	---	---	---
22...	0720	40000	314	7.4	28.6	30.0	5.50	175	6.3	---	---	---	---
28...	1205	500	---	---	---	23.0	---	---	---	---	---	---	---
28...	1225	3400	---	---	---	25.0	---	---	---	---	---	---	---
AUG													
06...	1245	40000	365	7.5	27.5	15.0	4.30	210	6.8	---	---	---	---
06...	1315	30000	393	7.8	27.3	---	5.00	105	7.8	---	---	---	---
18...	1500	500	---	---	---	24.0	---	---	---	---	---	---	---

APPENDIX B
 POTOMAC R AT ALEXANDRIA, VA. --Cont.

01652590

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LDC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPECIF- IC CON- DUCTAN- CE AREA WTS AVEI (UMHOS) (90094)	P-H AREA WTD AVE (JUNITS) (90400)	TEMPER- ATURE AREA WTD AVE (DEG C) (90010)	TRANS- PARENCY (SECCI DISK) X-SECT. AVG. (IN) (90077)	LIGHT DEPTH TO 1% X-SECT. AVG. (FEET) (90034)	LIGHT INCID. 400- 700NM X-S.AVG (J-EINS /SQM/S) (90200)	OXYGEN DIS- SOLVED AREA WTD AVEI (MG/L) (90300)	CHLORO- PHYLL A FLUORO. MTH COR AREA WTD AVE (UG/L) (92209)	PHEOPHY -TIN A FLUORO. METHOD AREA WTD AVE (UG/L) (92213)	CHLORO- PHYLL A FLUORO. MTH UCR AREA WTD AVE (UG/L) (92217)
AUG 18...	1515	40000	372	7.4	26.6	24.0	--	--	6.4	--	--	--
24...	1745	30000	429	7.8	24.8	19.0	4.80	500	9.4	--	--	--
24...	1755	40000	407	7.4	24.6	23.0	5.20	265	7.7	--	--	--
25...	0720	30000	454	6.5	24.1	18.5	4.33	92.5	8.4	54.8	61.2	61.2
25...	0750	40000	--	--	--	17.0	4.63	287	--	--	--	--
25...	1755	30000	424	7.0	24.9	22.5	4.60	225	9.6	--	--	--
25...	1820	40000	405	6.8	24.8	20.0	4.70	220	8.5	--	--	--
26...	0715	30000	431	6.4	24.2	18.0	--	50.0	7.2	--	--	--
26...	0745	40000	406	6.3	24.2	18.0	5.00	193	7.1	--	--	--
26...	1720	30000	418	7.7	24.9	19.0	4.55	765	8.8	--	--	--
26...	1740	40000	408	7.5	24.8	18.0	4.05	500	8.7	--	--	--
SEP 01...	1310	500	--	--	--	30.0	--	--	--	--	--	--
01...	1330	3400	--	--	--	18.0	--	--	--	--	--	--
10...	0720	3400	--	--	--	24.0	--	--	--	--	--	--
10...	0805	500	--	--	--	24.0	--	--	--	--	--	--
16...	1300	3400	--	--	--	22.0	--	--	--	--	--	--
22...	0950	500	--	--	--	25.0	--	--	--	--	--	--
22...	1015	3400	--	--	--	26.0	--	--	--	--	--	--

APPENDIX B
384605077015R00 - POTOMAC RIVER AT ROSTER BLUFF

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FIT FM L BANK)	SPECIF- IC CON- DUCTAN- CE	AREA WTG AVE (UMHOS)	P+	TEMPER- ATURE	TRANS- PARENCY (SECCHI DISK)	LIGHT DEPTH TO 1%	LIGHT INCD. 400- 700NM	OXYGEN DIS- SOLVED	CHLORO- PHYLL A FLURO. MTH COR AREA WTD AVE (UG/L)	CHLORO- PHYLL A FLURO. MTH UCR AREA WTG AVE (UG/L)	PHEOPY -TIN A FLURO. METHOD AREA WTG AVE (UG/L)	CHLORO- PHYLL A FLURO. MTH UCR AREA WTG AVE (UG/L)
			AREA WTG AVE (90094)	WTG AVE (JNITS) (90400)		AREA WTG AVE (DEG C) (90010)	X-SECT. AVG. (IN) (90077)	X-SECT. AVG. (FEET) (90034)	X-S.AVG (J-EINS /SQM/S) (90200)	AREA WTD AVE (MG/L) (90300)	AREA WTD AVE (UG/L) (92209)	AREA WTD AVE (UG/L) (92213)	AREA WTD AVE (UG/L) (92217)	
OCT	0830	800	---	---	---	---	7.0	---	---	---	---	---	---	---
JUN	1654	625	---	---	---	---	22.0	---	---	---	---	---	---	---
	1243	50000	315	7.1	25.6	17.3	---	---	---	5.9	---	---	---	---
	30...	50000	302	6.8	26.7	25.3	---	---	---	5.1	---	---	---	---
	1630	50000	313	6.9	26.9	22.5	---	---	---	5.1	---	---	---	---
JUL	1425	50000	293	6.8	27.2	32.7	---	---	---	6.9	---	---	---	---
	1304	50000	305	6.5	26.6	28.3	---	---	---	4.5	---	---	---	---
	1252	50000	---	---	---	29.7	---	---	---	---	---	---	---	---
	16...	50000	340	6.6	29.7	---	---	---	---	6.9	30.3	39.5	39.3	---
	0745	50000	334	6.6	29.4	23.3	---	---	---	5.4	---	---	---	---
	1640	50000	311	6.7	29.1	26.0	---	---	---	4.3	---	---	---	---
	0625	50000	300	6.3	28.1	23.7	---	---	---	4.3	---	---	---	---
	1650	50000	313	6.6	29.3	27.3	---	---	---	5.6	---	---	---	---
AUG	0615	50000	298	6.3	28.6	20.7	---	---	---	4.4	---	---	---	---
	1630	50000	295	6.3	30.1	27.3	---	7.65	---	6.9	---	---	---	---
	0600	50000	310	6.1	29.2	22.6	---	---	275	4.9	---	---	---	---
	05...	50000	320	6.7	29.3	26.0	---	---	165	4.8	---	---	---	---
	0840	50000	338	6.9	29.2	30.6	---	---	972	4.9	---	---	---	---
	1033	50000	344	6.9	29.5	32.0	---	---	1460	4.9	---	---	---	---
	05...	50000	335	6.9	29.7	34.0	---	---	1790	5.0	---	---	---	---
	1815	50000	306	6.1	29.7	23.0	---	---	30.0	5.5	---	---	---	---
	1853	50000	389	6.7	28.5	25.0	---	---	---	5.6	---	---	---	---
	1955	50000	380	6.8	28.5	23.0	---	---	---	5.5	---	---	---	---
	0610	50000	300	6.2	29.2	21.3	---	---	---	4.1	---	---	---	---
	0720	50000	311	6.7	29.1	27.7	---	---	382	4.5	---	---	---	---
	0850	50000	327	6.7	29.2	27.0	---	5.23	882	4.4	---	---	---	---
	1030	50000	337	6.9	29.5	28.3	---	5.57	1500	4.7	---	---	---	---
	1145	50000	339	6.9	29.4	32.0	---	5.90	1900	4.7	---	---	---	---
	1452	50000	332	6.8	29.9	31.0	---	5.23	---	5.0	23.5	13.6	29.8	---
	1607	50000	321	6.7	30.0	32.3	---	6.40	---	5.0	---	---	---	---
	1615	50000	312	6.3	30.2	---	---	7.50	717	5.1	---	---	---	---
	1710	50000	316	6.6	29.9	32.0	---	7.16	---	5.2	21.0	8.40	24.8	---
	1830	50000	316	6.7	29.9	25.5	---	6.67	---	5.5	---	---	---	---
	1945	50000	330	6.8	30.2	24.3	---	5.23	---	6.9	43.0	14.2	49.2	---
	0640	50000	297	5.7	29.5	24.3	---	8.00	12.2	3.9	---	---	---	---
	1645	50000	294	6.2	30.6	19.0	---	7.33	867	5.4	---	---	---	---
	0600	50000	288	6.2	29.8	17.5	---	---	---	4.6	---	---	---	---
	1645	50000	305	6.3	31.1	18.7	---	5.50	1150	5.5	---	---	---	---
	1630	50000	317	7.0	31.3	22.3	---	6.70	933	5.9	---	---	---	---

APPENDIX B
 384605077015900 - POTOMAC RIVER AT ROSIER BLUFF - Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOCATION	SPECIFIC CONDUCTANCE	P-H	TEMPERATURE	TRANSPARENCY	LIGHT DEPTH	LIGHT TO 1% AVG.	WGT AVG	WGT AVG	WGT AVG	WGT AVG	WGT AVG	WGT AVG	WGT AVG	WGT AVG	WGT AVG
		(L1RANK)	(UMHOS)	(UNITS)	(DEG C)	(IN)	(FEET)	(J-EINS)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)
		(00009)	(90094)	(90400)	(90010)	(90077)	(90034)	(90200)	(90300)	(90300)	(90300)	(90300)	(90300)	(90300)	(90300)	(90300)	(90300)
AUG	0600	50000	320	6.4	29.5	20.3	--	--	3.7	--	--	--	--	--	--	--	--
13...	1610	50000	335	6.3	30.1	19.3	7.25	517	6.0	--	--	--	--	--	--	--	--
13...	0620	50000	323	6.8	25.6	21.0	--	--	4.2	--	--	--	--	--	--	--	--
20...	1615	50000	310	6.7	26.2	34.7	3.80	--	3.8	--	--	--	--	--	--	--	--
20...	1815	50000	355	6.7	27.0	19.5	--	75.0	5.6	--	--	--	--	--	--	--	--
25...																	
SEP	03...	50000	356	6.5	28.8	30.6	8.50	927	4.5	--	--	--	--	--	--	--	--
15...	1620	50000	353	6.7	26.0	23.0	6.16	300	5.3	--	--	--	--	--	--	--	--

APPENDIX B
 384605077015900 - POTOMAC RIVER AT ROSIER BLUFF --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOC- ATION	CROSS SECTION (FT FM L BANK)	SPECIF- IC CON- DUCTAN- CE	AREA WTS AVEI (UMHOS)	PH	TEMPER- ATURE	TRANS- PARENCY (SECC-I DISK)	LIGHT DEPTH TO 1%	LIGHT INVCID. 400- 700NM	OXYGEN DIS- SOLVED AREA	CHLORO- PHYLL A FLUORO- MTH COR AREA WTD AVEI (US/L)	PHOEPHY -TTV A FLUORO- METHOD AREA WTD AVEI (UG/L)	CHLORO- PHYLL A FLUORO- MTH UCR AREA WTD AVEI (UG/L)
OCT 02...	1445	50000		395	6.7		22.7	24.7	8.83	1330	4.9			
OCT 21...	0950	525						26.0	6.40	500				
NOV 18...	1420	625						28.0	8.30	110				
DEC 16...	1425	50000		347	7.7		5.7	26.3	7.75	183	10.9			
FEB 04...	1020	525						42.0	11.0	100				
MAR 04...	0925	525						24.0						
APR 15...	0830	525							4.70	1600				
MAY 19...	0850	625						22.0	5.00	115				
JUN 30...	1045	525						26.0	6.00	1750				
JUL 08...	2000	50000		312	7.2		27.6	27.3			7.6			
JUL 20...	0640	50000		316	6.7		28.5	32.0			5.6			
JUL 20...	1730	50000		317	7.0		29.6	33.7	5.16	833	6.9			
JUL 21...	0600	50000		320	6.7		28.8	36.0			5.1			
JUL 21...	1610	50000		320	7.2		29.6	26.7	6.03	1300	6.8			
JUL 22...	0615	50000		324	6.8		28.7	34.0	4.16	22.6	5.2			
AUG 06...	1345	50000		356	7.6		27.5	17.0	4.75	105	7.2			
AUG 18...	1415	50000		378	7.8		26.7	23.0			7.9			
AUG 24...	1700	50000		390	7.6		24.8	21.3	4.77	717	9.2			
AUG 25...	0645	50000		398	6.7		23.9	18.3			7.9			
AUG 25...	1730	50000		396	6.9		24.7	24.3	4.53	170	8.3			
AUG 26...	0645	50000		399	5.5		24.0	18.0			6.9			
AUG 26...	1650	50000		393	7.4		24.6	17.6	4.30	917	8.2			

APPENDIX B
384318077020300 - POTOMAC RIVER AT HATTON POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LDC- ATION, CROSS SECTION (FIT FM L RANK) (00009)	SPECIF- IC CON- DJCTAN- CE	AREA WTS. AVEI (JMHOS) (90094)	PH	AREA WTD AVE (UNITS) (90400)	TEMPER- ATURE	AREA WTD AVE (DEG C) (90010)	TRANS- PARENCY (SECC-HI DISK) X-SECT. AVG. (IN) (90077)	LIGHT DEPTH TO 1% X-SECT. AVG. (FEET) (90034)	LIGHT IVCID. 400- 700NM X-S.AVG (J-EINS /50M/S) (90200)	OXYGEN DIS- SOLVED AREA WTD AVEI (MG/L) (90300)	CHLORO- PHYLL A FLUORO. MTH COR AREA WTD AVE (UG/L) (92209)	PHEOPHY -YIN A FLUORO. METHOD AREA WTD AVEI (UG/L) (92213)	CHLORO- PHYLL A FLUORO. MTH UCR AREA WTD AVE (UG/L) (92217)
OCT	0900	1000						7.0							
06...															
JUN	1625	50000	285		7.3		23.9	25.0				6.7			
17...															
27...	1155	50000	286		6.8		25.2	24.6				5.7			
JUL	1300	50000	277		6.7		26.9	37.0				6.9			
04...	1220	50000	300		6.4		25.9	32.0				4.0			
09...	0820	50000	279		5.2		26.4	23.3				3.8			
11...	1525	50000	301		6.4		24.0	27.0				4.3	10.2	19.7	
16...	1225	50000	295		5.2		28.4	29.7				5.8			
23...	0823	50000	312		5.3		29.7	33.0				4.4			
23...	1845	50000	299		6.1		29.3	21.0				3.8			
30...	0705	50000	272		6.0		28.2	23.5				3.9			
30...	1730	50000	290		6.3		29.1	23.5				4.7			
AUG	0720	50000	271		5.0		28.8	22.3				4.6	13.6	27.8	
04...	1710	50000	252		5.0		29.7	26.0		6.83		6.1			
05...	0645	50000	270		5.8		29.3	25.7		8.50		4.1			
05...	0730	50000	287		6.4		29.4	33.3			441	4.3			
05...	0919	50000	305		5.6		29.5	31.5			1070	4.6			
05...	1105	50000	308		5.6		29.5	41.7		3.57	1680	4.6			
05...	1225	50000	290		6.6		29.6	31.6		3.10	1950	4.9			
05...	1814	50000	359		6.4		28.5	27.3				4.4			
05...	1900	50000	273		5.9		29.6	19.3				4.7			
05...	0645	50000	352		6.4		29.3	24.6				3.9			
06...	0759	50000	269		5.9		29.3	24.0				4.1			
06...	0920	50000	293		5.4		29.2	30.0		8.10	377	4.0			
06...	1059	50000	305		6.6		29.3	30.0		5.97	485	4.1			
06...	1220	50000	312		6.6		29.5	34.3		6.50	1170	4.5			
06...	1415	50000	297		6.7		29.6	42.0		6.90	1780	4.5			
06...	1524	50000	295		6.6		29.7	33.7		7.05	1500	4.3			
06...	1635	50000	272		6.4		29.7	36.3		6.00		4.3			
06...	1650	50000	255		5.3		29.9	36.0		6.33		4.5			
06...	1744	50000	277		5.9		30.2	29.0		6.50		4.4			
06...	1945	50000	285		6.3		29.8	31.3		9.00	550	4.5			
07...	0700	50000	259		5.4		29.5	26.7		6.27		4.5			
07...	1730	50000	246		5.8		30.1	30.7		6.27		5.1			
08...	0620	50000	252		5.8		29.8	21.6		7.07	220	3.4			
08...	1715	50000	258		5.9		30.7	22.7		7.75	783	4.6			
11...	1730	50000	298		6.8		30.9	20.3			3.50	4.0			
13...	0645	50000	279		6.0		29.5	22.3		8.67	1000	4.1			
										7.75	633	4.4			
										7.25	35.8	3.4			

APPENDIX B
 384318077020300 - POTOMAC RIVER AT HATTON POINT ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SPECIFIC CONDUCTANCE	PH	TEMPERATURE	TRANSPARENCY (SECCHI DISK)	LIGHT DEPTH TO 1% X-SECT. AVG. (FEET)	LIGHT INCID. 400-700NM X-S.AVG. (J-EINS/SQCM/S)	OXYGEN DIS-SOLVED AREA WTD AVE (MG/L)	CHLORO-PHYLL A FLUORO-MTH COR AREA WTD AVE (UG/L)	PREOPHY-TIN A FLUORO-MTHOD AREA WTD AVE (UG/L)	CHLORO-PHYLL A FLUORO-MTH UCR AREA WTD AVE (UG/L)
		(00009)	(90094)	(90400)	(90010)	(90077)	(90034)	(90200)	(90300)	(92209)	(92213)	(92217)
AUG 13....	1645	50000	301	6.0	29.9	22.3	6.75	293	4.7	--	--	--
20....	0630	50000	288	5.9	25.7	29.5	2.90	--	3.5	--	--	--
20....	1620	50000	279	5.6	25.1	25.7	9.00	67.3	3.7	--	--	--
25....	1A15	50000	328	6.5	26.2	25.6	7.65	433	4.0	--	--	--
SEP 03....	1640	50000	338	6.4	29.4	29.0	8.95	900	4.0	--	--	--
15....	1650	50000	349	6.7	25.9	21.3	7.25	750	5.7	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOC- TION, CROSS SECTION (FT FM L BANK) (00009)	SPECIF- IC CON- DUCTAN- CE	AREA WTG AVEI (UMHOS) (90094)	P-4 AREA WTD AVE (UNITS) (90400)	TEMPER- ATURE	TRANS- PARENCY (SECC-I DISK)	LIGHT DEPTH TO 1%	LIGHT INCID. 400- 700NM X-S.AVG (J-EINS /SQM/S)	OXYGEN DIS- SOLVED AREA WTD AVE (MG/L) (90300)	CHLORO- PHYLL A FLUORO. MTH COR AREA WTD AVE (UG/L) (92209)	PHEOPHY -YIN A FLUORO. METHOD AREA WTD AVEI (UG/L) (92213)	CHLORO- PHYLL A FLUORO. MTH UCR AREA WTD AVE (UG/L) (92217)
OCT													
	02...	50000	367	6.6	6.6	22.5	29.7	9.50	1200	4.5	---	---	---
	03...	50000	396	5.4	5.4	20.8	27.0	---	---	5.1	---	---	---
	04...	50000	444	6.9	6.9	17.2	26.0	4.50	580	7.2	---	---	---
NOV													
	1345	50000	497	7.7	7.7	9.6	31.5	11.0	216	9.9	---	---	---
DEC													
	1345	50000	341	7.7	7.7	5.5	23.7	6.63	170	10.8	---	---	---
FEB													
	1045	1000	---	---	---	---	38.0	---	100	---	---	---	---
MAR													
	0905	1000	---	---	---	---	23.0	---	---	---	---	---	---
APR													
	0850	1000	---	---	---	---	16.0	5.00	1500	---	---	---	---
MAY													
	0910	1000	---	---	---	---	24.0	6.10	240	---	---	---	---
JUL													
	1748	1000	---	---	---	---	32.0	---	---	---	---	---	---
	1920	50000	273	5.7	5.7	27.6	26.0	8.50	153	6.0	---	---	---
	1815	1000	---	---	---	---	39.0	9.67	1050	---	---	---	---
	1920	1000	---	---	---	---	34.0	10.0	110	---	---	---	---
	1645	1000	---	---	---	---	42.0	8.00	2000	---	---	---	---
	1640	1000	---	---	---	---	35.0	10.0	650	---	---	---	---
	0625	50000	303	6.7	6.7	28.5	29.0	8.50	23.2	5.1	---	---	---
	1635	50000	308	6.9	6.9	29.2	33.0	7.75	717	6.1	---	---	---
	20...	50000	292	6.7	6.7	28.9	30.0	---	---	5.3	---	---	---
	21...	50000	308	6.8	6.8	29.4	26.5	5.90	507	6.2	---	---	---
	0625	50000	310	5.9	5.9	28.7	28.0	---	---	5.5	---	---	---
	1800	1000	---	---	---	---	22.0	3.90	750	---	---	---	---
	1806	2400	---	---	---	---	---	3.10	550	---	---	---	---
	1930	50000	317	7.1	7.1	27.0	18.0	4.50	210	8.2	64.6	14.5	70.7
AUG													
	1540	50000	332	8.0	8.0	28.1	16.5	---	---	9.5	44.8	17.9	52.8
	1430	50000	328	7.3	7.3	27.7	18.5	3.00	93.3	6.3	---	---	---
	07...	1000	---	---	---	---	22.0	5.30	550	---	---	---	---
	1746	2400	---	---	---	---	18.0	3.75	300	---	---	---	---
	1928	1000	---	---	---	---	19.0	4.70	155	---	---	---	---
	1946	2400	---	---	---	---	---	---	75.0	---	---	---	---
	1240	50000	356	7.4	7.4	26.8	27.0	---	---	6.1	---	---	---
	1745	50000	359	5.5	5.5	24.7	18.0	5.77	213	7.2	45.3	14.3	51.6
	0715	50000	373	7.0	7.0	24.1	21.0	4.10	48.0	6.5	---	---	---
	2320	50000	406	7.5	7.5	24.2	---	---	---	8.3	---	---	---
	0715	50000	353	6.7	6.7	23.9	24.0	5.80	35.0	5.7	---	---	---
	2100	50000	370	6.3	6.3	24.5	---	---	---	6.7	---	---	---
SEP													
	1020	1000	---	---	---	---	22.0	---	---	---	---	---	---

APPENDIX B
 384318077020300 - POTOMAC RIVER AT HATTON POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

SAMPLE LOC- ATION, CROSS SECTION (FIT FM L BANK) (000009)	TIME	DATE	PH	TEMPER- ATURE	TRANS- PARENCY (SECCI DISK)	LIGHT DEPTH TO 1%	LIGHT INCID. 400- 700NM	OXYGEN DIS- SOLVED	CHLORO- PHYLL A FLUORO. MTH COR AREA	PHEOPHY -TIN A FLUORO. METHOD AREA	CHLORO- PHYLL A FLUORO. MTH UCR AREA
AREA WTD AVE (JUNITS) (90400)	AREA WTD AVE (DEG C) (90010)	X-SECT. AVG. (IN) (90077)	X-S.AVG (J-EINS /SQM/S) (90200)	X-SECT. AVG. (FEET) (90034)	X-S.AVG AREA WTD AVE (MG/L) (90300)	X-SECT. AVG. (FEET) (90034)	X-S.AVG AREA WTD AVE (MG/L) (90300)	X-SECT. AVG. (FEET) (90034)	X-SECT. AVG. (FEET) (90034)	X-SECT. AVG. (FEET) (90034)	X-SECT. AVG. (FEET) (90034)
22...	0920	1000	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LDC-SECTION (FIT FM L RANK) (00009)	SPECIFIC CONDUCTANCE	P4 AREA (JUNITS) (90400)	TEMPERATURE AREA (WTG AVE) (DEG C) (90010)	TRANSPARENCY (SECCCHI DISK) X-SECT. AVG. (IN) (90077)	LIGHT DEPTH TO 1% X-SECT. AVG. (FEET) (90034)	LIGHT INCID. 400-700NM X-S.AVG (J-EINS /SQM/S) (90200)	OXYGEN DIS-SOLVED AREA (MG/L) (90300)	CHLORO-PHYLL A FLUORO. MTH COR AREA (WTG AVE) (UG/L) (92209)	PHEOPHY -YIN A FLUORO. METHOD AREA (WTG AVE) (UG/L) (92213)	CHLORO-PHYLL A FLUORO. MTH UCR AREA (WTG AVE) (UG/L) (92217)
OCT 06...	0930	2100	--	--	--	8.0	--	--	--	--	--	--
DEC 20...	1030	50000	--	8.0	3.9	18.0	--	12.4	--	--	--	--
JAN 16...	0955	50000	336	8.0	3.3	20.0	--	13.6	--	--	--	--
FEB 19...	1125	50000	296	8.1	1.9	24.0	--	14.2	--	--	--	--
MAR 18...	0935	50000	258	7.4	7.6	--	--	11.5	--	--	--	--
APR 22...	1220	50000	182	7.0	15.2	16.0	--	9.3	--	--	--	--
MAY 19...	1115	50000	251	7.3	21.0	18.0	--	6.3	--	--	--	--
JUN 17...	1540	50000	279	7.2	24.3	24.0	--	6.9	--	--	--	--
27...	1115	50000	274	6.8	25.0	22.0	--	6.2	--	--	--	--
JUL 04...	1215	50000	274	6.9	26.5	19.3	--	7.3	--	--	--	--
09...	1130	50000	277	6.3	25.9	26.3	--	4.7	--	--	--	--
16...	1140	50000	278	6.3	28.4	25.0	--	6.5	34.9	15.1	41.7	--
23...	0930	50000	297	6.4	29.5	21.3	--	5.5	--	--	--	--
23...	1915	50000	296	6.1	29.4	23.3	--	5.0	--	--	--	--
30...	0750	50000	264	6.0	29.3	17.0	--	5.3	--	--	--	--
30...	1840	50000	272	6.4	29.1	16.3	--	5.9	--	--	--	--
AUG 04...	0815	50000	--	--	--	15.3	--	--	--	--	--	--
04...	1810	50000	244	6.1	30.0	21.5	5.83	7.2	--	--	--	--
05...	0655	50000	251	5.0	29.0	27.3	--	5.6	--	--	--	--
05...	0740	50000	251	5.8	29.2	22.3	7.36	5.3	--	--	--	--
05...	0845	50000	248	5.9	28.9	34.0	150	4.3	--	--	--	--
05...	1035	50000	250	6.1	29.2	28.0	--	4.3	--	--	--	--
05...	1235	50000	252	6.2	29.6	28.0	--	5.8	--	--	--	--
05...	1620	50000	251	6.5	29.8	21.0	--	8.9	--	--	--	--
05...	1825	50000	246	6.3	29.3	22.0	--	7.2	--	--	--	--
05...	1930	50000	247	5.9	29.7	12.5	--	6.8	--	--	--	--
06...	0655	50000	241	6.0	28.9	26.6	--	5.0	--	--	--	--
06...	0715	50000	255	6.0	29.3	18.7	6.40	5.4	--	--	--	--
06...	0835	50000	243	5.9	29.0	28.7	--	4.5	--	--	--	--
06...	0955	50000	247	6.0	29.1	33.0	--	4.1	--	--	--	--
06...	1125	50000	256	5.0	29.3	32.7	--	4.1	--	--	--	--
06...	1445	50000	244	5.0	29.4	24.0	--	5.3	--	--	--	--
06...	1640	50000	244	5.5	29.6	22.0	--	8.1	--	--	--	--
06...	1725	50000	253	6.3	30.1	15.3	4.83	7.9	--	--	--	--
06...	1845	50000	241	5.3	29.7	23.0	--	7.7	--	--	--	--

APPENDIX B
384136077054500 - POTOMAC RIVER AT MARSHALL HALL --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LDC- ATION, CROSS SECTION (FT FM L BANK) (000009)	SPECIF- IC CON- DUCTAN- CE	AREA WTS AVEI (UMHOS) (90094)	PH	TEMPER- ATURE	AREA WTD AVE (DEG C) (90010)	TRANS- PARENCY (SECCI- DISK)	X-SECT. AVG. (IN) (90077)	LIGHT DEPTH TO 1%	X-SECT. AVG. (FEET) (90034)	INCID. 400- 700NM X-S.AVG (J-EINS /SQM/S) (90200)	OXYGEN DIS- SOLVED AREA WTD AVE (MG/L) (90300)	CHLORO- PHYLL A FLUCRO. MTH COR AREA WTD AVE (UG/L) (92209)	PHEOPHY -TIN A FLUCRO. METHOD AREA WTD AVE (UG/L) (92213)	CHLORO- PHYLL A FLUCRO. MTH UCR AREA WTD AVE (UG/L) (92217)
AUG 07...	0720	50000	253	5.5	29.5	20.0	6.57	133	5.5	---	---	---	---	---	---	---
07...	1815	50000	224	6.2	30.0	14.0	5.33	1400	8.4	---	---	---	---	---	---	---
08...	0645	50000	244	6.2	29.8	22.3	5.87	17.6	6.9	---	---	---	---	---	---	---
08...	1745	50000	247	6.2	30.9	14.0	4.43	1000	9.1	---	---	---	---	---	---	---
11...	1815	50000	245	6.6	30.7	19.6	5.00	580	5.0	---	---	---	---	---	---	---
13...	0725	50000	236	5.7	29.5	20.6	4.80	202	3.9	---	---	---	---	---	---	---
13...	1730	50000	251	5.5	29.9	22.3	8.17	293	4.1	---	---	---	---	---	---	---
19...	1155	50000	243	5.6	26.8	26.5	5.85	155	4.2	---	---	---	---	---	---	---
20...	0700	50000	255	5.6	26.0	23.0	6.10	120	3.1	---	---	---	---	---	---	---
20...	1650	50000	238	5.5	26.2	21.3	7.10	139	5.5	---	---	---	---	---	---	---
25...	1905	50000	278	6.3	26.3	21.0	5.75	197	4.8	---	---	---	---	---	---	---
SEP 03...	1800	50000	308	6.3	29.7	26.6	7.17	367	5.0	---	---	---	---	---	---	---
15...	1735	50000	333	6.4	25.8	23.0	6.77	460	4.6	---	---	---	---	---	---	---
16...	1650	2100	---	---	---	26.0	8.50	200	---	---	---	---	---	---	---	---

APPENDIX B
384136077054500 - POTOMAC RIVER AT MARSHALL HALL --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FIT FM L RANK)	SECTION AREA WTG AVE (UMHOS)	PH WTG AVE (UNITS)	TEMPER- ATURE AREA WTG AVE (DEG C)	TRANS- PARENCY (SECC-DISK)	LIGHT DEPTH TO 1%	LIGHT INCID. 400- 700NM	OXYGEN DIS- SOLVED AREA WTG AVE (MG/L)	CHLORO- PHYLL A FLUORO- MTH COR AREA WTG AVE (US/L)	PHEOPHY -TIV A FLUORO- METHOD AREA WTG AVE (UG/L)	CHLORO- PHYLL A FLUORO- MTH UCR AREA WTG AVE (UG/L)
		(00009)	(90094)	(90010)	(90077)	(90034)	(90200)	(90300)	(92209)	(92213)	(92217)	
OCT												
02...	1620	50000	351	6.5	22.6	24.3	--	--	5.3	--	--	--
03...	1015	50000	354	5.1	21.0	27.0	--	--	4.8	--	--	--
21...	1100	50000	419	6.7	17.1	27.5	4.50	1070	7.2	--	--	--
NOV												
18...	1230	50000	499	7.7	9.7	28.0	8.50	657	9.9	--	--	--
DEC												
16...	1320	50000	357	7.7	5.3	19.7	7.32	177	10.8	--	--	--
FEB												
04...	1115	2300	--	--	--	36.0	9.00	150	--	--	--	--
MAR												
04...	0840	2300	--	--	--	16.0	--	--	--	--	--	--
APR												
15...	0915	2300	--	--	--	11.0	4.80	1900	--	--	--	--
MAY												
19...	0925	2300	--	--	--	36.0	4.90	105	--	--	--	--
JUN												
30...	1140	2300	--	--	--	--	5.50	2000	--	--	--	--
JUL												
08...	1830	50000	255	6.6	27.3	27.3	6.93	467	5.4	--	--	--
20...	0725	50000	271	6.5	28.4	20.0	--	153	5.1	--	--	--
20...	1745	50000	287	6.8	29.2	31.0	5.90	387	6.5	--	--	--
21...	0940	50000	254	6.6	28.7	21.0	--	--	5.2	--	--	--
21...	1745	50000	293	6.6	29.3	31.0	7.06	777	5.9	--	--	--
22...	0715	50000	292	6.7	28.6	31.0	--	--	5.2	--	--	--
28...	1100	2300	--	--	--	26.0	4.80	150	--	--	--	--
AUG												
06...	1515	50000	292	6.6	27.1	21.0	3.08	36.7	4.6	--	--	--
18...	1200	50000	334	7.3	26.7	23.7	--	--	6.4	--	--	--
24...	1900	50000	359	5.0	24.7	19.5	--	--	6.7	--	--	--
25...	0750	50000	357	6.7	22.7	22.7	5.83	212	5.5	--	--	--
25...	2145	50000	353	5.9	24.3	--	--	--	5.7	--	--	--
26...	0815	50000	436	6.7	23.8	16.5	4.70	228	6.1	--	--	--
26...	2015	50000	476	5.4	24.7	--	--	--	7.6	--	--	--
SEP												
16...	0945	2300	--	--	--	22.0	--	--	--	--	--	--

APPENDIX B
383818077072900 - POTOMAC RIVER AT HALLOWING POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FIT FM L BANK) (000009)	SPECIFIC CONDUCTANCE	PH	TEMPERATURE	TRANS-PARENCEY (SECC-DISK)	LIGHT DEPTH TO 1% X-SECT. AVG. (FEET)	LIGHT INCIDENT. 400-700NM X-S.AVG (J-EINS/SQCM/S)	OXYGEN DIS-SOLVED AREA WTD AVE (MG/L)	CHLORO-PHYLL A FLUORO. MTH COR AREA WTD AVE (UG/L)	PHEOPHY -YIN A FLUORO. METHOD WTD AVE (UG/L)	CHLORO-PHYLL A FLUORO. MTH UCR AREA WTD AVE (UG/L)
		AREA WTD AVE (JUNITS) (900400)	AREA WTD AVE (DEG C) (90010)	AREA WTD AVE (IN) (90077)	AREA WTD AVE (90034)	AREA WTD AVE (90200)	AREA WTD AVE (90300)	AREA WTD AVE (90200)	AREA WTD AVE (90300)	AREA WTD AVE (92209)	AREA WTD AVE (92213)	AREA WTD AVE (92217)
JUN 17...	1425	50000	254	7.3	24.1	22.3	---	---	7.7	---	---	---
27...	1015	50000	254	7.3	24.9	23.0	---	---	7.3	---	---	---
JUL 04...	1035	50000	254	7.1	26.5	19.5	---	---	7.7	---	---	---
09...	1030	50000	256	6.5	25.6	20.6	---	---	5.5	---	---	---
16...	1040	50000	261	6.8	28.1	21.0	---	---	6.7	---	---	---
23...	1015	50000	294	7.0	29.2	16.5	---	---	6.6	---	---	---
23...	2000	50000	280	6.7	28.9	18.3	---	---	6.6	---	---	---
30...	0830	50000	260	7.1	28.2	13.3	---	---	7.8	---	---	---
30...	1910	50000	275	7.5	29.4	12.5	---	---	10.6	---	---	---
AUG 04...	0850	50000	247	6.3	29.1	16.0	---	---	7.2	---	---	---
04...	1900	50000	252	6.9	29.7	17.8	4.50	---	8.2	---	---	---
05...	0749	50000	257	6.6	29.0	22.0	---	---	7.4	---	---	---
05...	0820	50000	258	6.5	29.4	20.2	5.40	37.0	7.6	---	---	---
05...	0949	50000	254	6.5	29.1	24.0	---	---	7.5	---	---	---
05...	1129	50000	257	6.9	29.3	24.0	---	---	8.8	---	---	---
05...	1515	50000	263	7.3	29.7	17.3	---	---	8.9	---	---	---
05...	1739	50000	261	7.3	29.3	17.5	---	---	8.5	---	---	---
05...	2000	50000	259	6.9	29.7	12.8	---	---	8.5	---	---	---
06...	0729	50000	255	5.6	28.9	20.8	---	---	6.4	27.7	66.5	79.0
06...	0810	50000	263	6.6	29.2	16.7	5.30	305	6.5	---	---	---
06...	0919	50000	250	6.5	28.9	24.0	---	---	6.7	---	---	---
06...	1049	50000	248	5.5	29.1	24.0	---	---	7.1	---	---	---
06...	1350	50000	251	6.8	29.5	18.0	---	---	8.0	---	---	---
06...	1549	50000	256	7.3	29.7	18.0	---	---	8.5	---	---	---
06...	1744	50000	256	7.4	30.0	18.3	---	---	9.1	---	---	---
06...	1820	50000	264	7.0	30.0	16.5	5.33	289	8.0	---	---	---
07...	0800	50000	251	6.3	29.6	16.5	4.95	313	6.3	---	---	---
07...	1850	50000	230	6.9	30.3	14.0	5.00	175	7.5	---	---	---
08...	0705	50000	256	6.8	29.9	17.5	5.13	80.5	5.4	---	---	---
08...	1815	50000	259	7.1	31.0	13.0	4.90	463	8.7	---	---	---
11...	1900	50000	249	7.6	30.6	16.5	1.70	209	8.6	---	---	---
13...	0820	50000	242	6.7	29.2	17.9	3.90	251	6.1	---	---	---
13...	2020	50000	241	6.7	29.6	13.0	---	---	8.6	---	---	---
20...	0740	50000	235	6.4	25.8	16.8	4.06	---	6.8	---	---	---
20...	1740	50000	236	6.4	26.1	16.5	5.05	86.8	7.5	---	---	---
25...	1940	50000	245	6.6	26.3	19.0	4.63	42.5	7.0	---	---	---
SEP 03...	1910	50000	293	6.8	29.3	17.3	5.00	67.0	7.3	---	---	---
15...	1810	50000	314	6.7	25.9	16.8	3.83	225	7.4	---	---	---

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FIT FM L BANK) (00009)	SPECIFIC CONDUCTANCE AREA WTS AVE) (UMHDS) (90094) (90400)	PH AREA WTD AVE (UNITS) (90010)	TEMPERATURE AREA WTD AVE (DEG C) (90010)	TRANS-PARENCE (SECCHI DISK) X-SECT. AVG. (IN) (90077)	LIGHT DEPTH TO 1% X-SECT. AVG. (FEET) (90034)	LIGHT INCID. 400-700NM X-S.AVG (J-EINS /SQM/S) (90200)	OXYGEN DIS-SOLVED AREA WTD AVE (MG/L) (90300)	CHLORO-PHYLL A MTH COR AREA WTD AVE (UG/L) (92209)	PNEOPHY -TIN A FLUORO. METHOD AREA WTD AVE (UG/L) (92213)	CHLORO-PHYLL A FLUORO. MTH UCR AREA WTD AVE (UG/L) (92217)
OCT												
02...	1710	50000	416	6.6	22.4	20.8	--	--	6.1	--	--	--
03...	0920	50000	387	6.1	20.7	20.5	--	--	6.2	--	--	--
21...	1155	50000	456	5.9	17.0	20.5	--	1130	8.7	--	--	--
NOV												
18...	1135	50000	1500	7.6	8.4	28.3	7.78	380	10.3	--	--	--
DEC												
16...	1230	50000	592	7.8	5.1	18.5	5.50	161	11.4	--	--	--
FEB												
04...	1140	50000	1760	8.0	1.3	26.0	7.00	150	12.3	--	--	--
MAR												
04...	0820	4020	--	--	--	11.0	--	--	--	--	--	--
APR												
15...	0935	4020	--	--	--	10.0	4.40	1800	--	--	--	--
MAY												
19...	1005	4020	--	--	--	18.0	4.20	125	--	--	--	--
JUN												
30...	1230	4020	--	--	--	17.0	4.70	2010	--	--	--	--
JUL												
06...	1654	4020	--	--	--	15.0	--	--	--	--	--	--
06...	1705	4450	--	--	--	19.0	--	--	--	--	--	--
08...	1730	50000	241	6.7	27.6	21.0	5.50	790	6.1	--	--	--
10...	1840	4020	--	--	--	24.0	5.17	735	--	--	--	--
13...	1731	4020	--	--	--	24.0	4.08	740	--	--	--	--
13...	1746	4450	--	--	--	22.0	--	--	--	--	--	--
15...	1540	4020	--	--	--	20.0	5.00	2000	--	--	--	--
15...	1601	1710	--	--	--	12.0	--	--	--	--	--	--
15...	1608	4140	--	--	--	17.0	3.50	1500	--	--	--	--
17...	1511	3480	--	--	--	25.0	5.50	1700	--	--	--	--
17...	1528	4140	--	--	--	24.0	7.00	1400	--	--	--	--
17...	1531	1710	--	--	--	28.0	--	550	--	--	--	--
20...	0825	50000	238	6.8	28.3	19.5	--	--	7.3	--	--	--
20...	1845	50000	243	7.2	29.3	18.7	1.90	77.5	9.4	--	--	--
21...	0850	50000	242	7.0	28.5	19.0	--	--	6.5	--	--	--
21...	1840	50000	249	6.4	29.4	26.0	5.40	548	6.4	--	--	--
22...	0800	50000	248	6.6	28.4	23.5	--	--	6.2	--	--	--
28...	1020	4020	--	--	--	22.0	4.80	275	--	--	--	--
29...	1700	50000	259	7.2	27.6	16.0	3.33	1140	9.5	67.0	16.3	74.0
31...	1800	50000	274	7.2	27.7	15.0	3.55	600	10.3	59.8	28.2	72.6
AUG												
04...	1445	50000	302	6.7	27.9	18.5	--	--	6.9	14.9	19.7	24.2
05...	1900	4020	--	--	--	20.0	--	--	--	--	--	--
06...	1610	50000	315	5.7	27.5	19.5	3.00	41.3	5.9	--	--	--
07...	1530	50000	348	6.8	27.0	22.3	5.08	1530	6.4	36.4	16.2	43.7
10...	1845	4020	--	--	--	20.0	5.00	400	--	--	--	--

APPENDIX B
 383818077072900 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L RANK) (00009)	SPECIF- IC CON- DUCTAN- CE AREA WTG AVEI (UMHOS) (90094)	PH AREA WTG AVE (UNITS) (90400)	TEMPER- ATURE AREA WTG AVE (DEG C) (90010)	TRANS- PARENCY (SECCHI DISK) X-SECT. AVG. (IN) (90077)	LIGHT DEPTH TO 1% X-SECT. AVG. (FEET) (90034)	LIGHT INCID. 400- 700NM X-S.AVG (J-EINS /SQM/S) (90200)	OXYGEN DIS- SOLVED AREA WTG AVEI (MG/L) (90300)	CHLORO- PHYLL A FLUORO. MTH COR AREA WTG AVE (UG/L) (92209)	PHEOPHY -YIN A FLUORO. METHOD AREA WTG AVE (UG/L) (92213)	CHLORO- PHYLL A FLUORO. MTH UCR AREA WTG AVE (UG/L) (92217)
AUG	1855	4140	--	--	--	16.0	4.70	300	--	--	--	--
10...	1130	50000	390	7.3	26.6	22.5	--	--	6.4	--	--	--
14...	1945	50000	634	5.6	24.6	--	--	--	8.5	--	--	--
24...	0845	50000	674	7.0	24.0	17.8	4.43	616	7.3	--	--	--
25...	2015	50000	644	7.5	24.4	--	--	--	8.7	--	--	--
26...	0900	50000	845	7.1	23.9	16.5	4.40	54R	7.2	--	--	--
26...	1920	50000	1590	7.3	24.7	19.5	3.75	57.5	8.3	--	--	--
SEP	0920	4020	--	--	--	23.0	--	--	--	--	--	--
22...	0840	4140	--	--	--	20.0	--	--	--	--	--	--

APPENDIX B
 - POTOMAC R AT INDIAN HEAD, MD

016554R0

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOCATION	CROSS SECTION	AREA	WTD AVE	WTD AVE	TEMPERATURE	TRANS-PARENCE	LIGHT DEPTH	LIGHT INCID.	OXYGEN DIS-SOLVED	CHLORO-PHYLL A	PREOPHY FLUORO.	CHLORO-PHYLL A
		(00009)	(FIT FM)	(UMHOS)	(UNITS)	(DEG C)	(IN)	(SECCHI DISK)	(FEET)	(J-EINS /SQM/S)	(MG/L)	(UG/L)	(UG/L)	(UG/L)
		(90094)	(90400)	(90010)	(90077)	(90034)	(90034)	(90077)	(90034)	(90200)	(90300)	(92209)	(92213)	(92217)
DEC 20...	0850	50000	---	7.9	3.7	18.0	---	---	---	---	13.3	---	---	---
JAN 16...	1145	50000	302	8.2	2.9	13.0	---	---	---	---	15.6	---	---	---
FEB 19...	1020	500	---	---	---	12.0	---	---	---	---	---	---	---	---
FEB 19...	1030	5300	---	---	---	12.0	---	---	---	---	---	---	---	---
MAR 18...	0840	50000	259	7.8	7.5	12.0	---	---	---	---	11.5	---	---	---
APR 22...	1345	50000	197	7.2	15.3	15.0	---	---	---	---	10.0	---	---	---
MAY 19...	1225	50000	210	7.3	20.8	24.0	---	---	---	---	8.0	---	---	---
JUN 17...	1240	50000	238	7.4	23.4	21.0	---	---	---	---	7.6	---	---	---
JUN 27...	0825	50000	257	7.3	24.5	23.0	---	---	---	---	7.2	---	---	---
JUL 04...	0930	50000	259	7.1	26.3	21.8	---	---	---	---	7.6	---	---	---
JUL 09...	0825	50000	251	5.7	25.5	---	---	---	---	---	5.9	---	---	---
JUL 16...	0900	50000	252	6.6	27.7	22.5	---	---	---	---	6.5	---	---	---
JUL 30...	0940	50000	267	7.0	24.3	14.8	---	---	---	---	7.2	---	---	---
AUG 06...	0850	50000	273	7.0	29.6	18.0	---	---	5.25	730	5.7	---	---	---
AUG 06...	1920	50000	270	7.0	30.1	17.8	---	---	5.00	150	7.3	---	---	---
AUG 13...	0930	50000	251	6.8	29.0	19.0	---	---	4.98	943	5.9	---	---	---
AUG 13...	1930	50000	247	6.7	29.6	14.8	---	---	6.00	55.0	8.0	---	---	---
AUG 19...	1110	50000	243	6.8	26.5	19.5	---	---	3.75	125	6.9	---	---	---
AUG 20...	0900	50000	239	6.7	25.9	16.3	---	---	4.42	---	6.4	---	---	---
AUG 20...	1840	50900	241	6.5	26.2	---	---	---	---	---	7.0	---	---	---
AUG 25...	2040	50000	261	7.0	25.1	---	---	---	---	---	6.6	---	---	---
SEP 03...	2030	50000	286	7.0	29.2	---	---	---	---	---	7.6	---	---	---
SEP 15...	1850	50000	320	7.2	25.9	---	---	---	3.87	42.0	9.6	---	---	---
SEP 16...	1725	500	---	---	---	20.0	---	---	6.50	250	---	---	---	---

APPENDIX B
 01655480 - POTOMAC R AT INDIAN HEAD, MD --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LDC- ATION, CROSS SECTION (FT FM L RANK)	SPECIF- IC CON- DUCTAN- CE	AREA WTG AVEI (JWHOS)	P-H AREA WTG AVE (UNITS)	TEMPER- ATURE	TRANS- PARENCY (SECCI DISK)	LIGHT DEPTH TO 1%	LIGHT INVCID. 400- 700NM X-S-AVG (J-EINS /SQM/S)	OXYGEN DIS- SOLVED AREA WTG AVEI (MG/L)	CHLORO- PHYLL A FLURO. MTH COR AREA WTG AVE (US/L)	PHEOPHY -TIN A FLURO. METHOD AREA WTG AVE (UG/L)	CHLORO- PHYLL A FLURO. MTH UCR AREA WTG AVE (UG/L)
OCT													
02...	1800	50000	871	6.7	22.3	20.0	---	---	5.9	---	---	---	---
03...	0850	50000	672	6.2	20.8	16.9	---	---	5.9	---	---	---	---
21...	1255	50000	646	7.2	17.1	15.0	5.00	1250	9.1	---	---	---	---
NOV													
18...	1000	50000	3240	7.7	8.8	27.3	10.1	260	10.0	---	---	---	---
DEC													
16...	1120	50000	775	7.9	5.1	22.5	7.30	220	11.5	---	---	---	---
FEB													
04...	1210	1500	---	---	---	26.0	9.00	150	---	---	---	---	---
04...	1220	5300	---	---	---	24.0	7.00	250	---	---	---	---	---
MAR													
04...	0735	1500	---	---	---	11.0	---	---	---	---	---	---	---
APR													
15...	1000	1500	---	---	---	6.0	4.30	2400	---	---	---	---	---
MAY													
19...	1025	1500	---	---	---	16.0	4.20	130	---	---	---	---	---
19...	1040	5300	---	---	---	12.0	3.80	200	---	---	---	---	---
JUN													
30...	1320	1500	---	---	---	19.0	6.50	950	---	---	---	---	---
30...	1340	5300	---	---	---	17.0	4.00	1900	---	---	---	---	---
JUL													
08...	1640	50000	228	6.9	27.5	21.5	6.06	967	7.5	---	---	---	---
20...	1120	50000	362	7.5	29.2	25.3	---	---	7.4	---	---	---	---
20...	1950	50000	241	7.0	28.8	20.5	---	---	9.0	---	---	---	---
21...	0745	50000	247	7.0	28.4	20.5	---	---	6.6	---	---	---	---
21...	1940	50000	245	6.8	29.1	22.3	4.45	205	7.6	---	---	---	---
22...	0915	50000	253	5.9	28.3	21.5	---	---	6.6	---	---	---	---
28...	0935	1500	---	---	---	---	6.70	400	---	---	---	---	---
28...	0959	5300	---	---	---	19.0	3.80	250	---	---	---	---	---
AUG													
06...	1700	50000	392	6.9	27.5	19.0	2.25	103	6.4	38.4	18.1	46.6	---
18...	0950	50000	825	7.4	26.1	17.5	---	---	6.6	---	---	---	---
24...	2110	50000	1250	6.8	24.4	---	---	---	9.0	---	---	---	---
25...	1000	50000	1310	7.1	24.0	18.5	4.48	1010	7.4	---	---	---	---
25...	1900	50000	1970	7.5	24.3	17.0	2.35	52.5	7.6	---	---	---	---
26...	1015	50000	1540	7.2	23.8	16.8	4.63	923	6.9	---	---	---	---
26...	1835	50000	3180	7.6	24.9	16.3	4.40	275	8.8	---	---	---	---
SEP													
22...	0755	1500	---	---	---	18.0	---	---	---	---	---	---	---
22...	0810	5300	---	---	---	17.0	---	---	---	---	---	---	---

APPENDIX B

01658710 - POTOMAC RIVER AT QUANTICO, VA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FIT FROM BANK) (00009)	SPECIFIC CONDUCTANCE	P-H	TEMPERATURE	TRANSPARENCY (SECCCHI DISK)	LIGHT DEPTH TO 1% X-SECT. AVG. (FEET)	LIGHT INCID. 400-700NM (J-EINS /SQM/S)	OXYGEN DIS-SOLVED AREA WTG AVE (MG/L)	CHLORO-PHYLL A FLUORO. MTH COR AREA WTG AVE (US/L)	PHEOPHY-TIN A FLUORO. METHOD AREA WTG AVE (UG/L)	CHLORO-PHYLL A FLUORO. MTH UCR AREA WTG AVE (UG/L)
JUN	1320	50000	198	7.3	23.0	--	--	--	4.3	--	--	--
	1520	50000	199	7.3	23.5	--	--	--	7.4	--	--	--
	1720	50000	200	7.4	23.4	--	--	--	7.7	--	--	--
	1945	50000	202	7.4	22.9	--	--	--	4.4	--	--	--
	0820	50000	203	7.4	22.3	--	--	--	--	--	--	--
	1030	50000	206	7.1	22.3	--	--	--	7.8	--	--	--
	1230	50000	190	7.0	23.2	--	--	--	7.1	--	--	--
	1440	50000	182	7.2	23.7	--	--	--	7.8	--	--	--
	1625	50000	201	7.5	23.8	--	--	--	8.7	--	--	--
	1840	50000	203	7.4	23.6	--	--	--	8.5	--	--	--
SEP	1050	50000	195	7.8	26.4	--	--	--	5.0	--	--	--
	1455	50000	135	7.0	24.5	--	--	--	5.2	--	--	--
	0705	50000	174	7.3	23.0	--	--	--	5.6	--	--	--
	1130	50000	155	7.1	23.6	--	--	--	4.5	--	--	--
	1345	50000	170	7.1	23.7	--	--	--	4.8	--	--	--
	0800	50000	158	7.2	23.1	--	--	--	5.0	--	--	--
	1100	50000	171	7.1	23.3	--	--	--	4.7	--	--	--
	1335	50000	169	7.1	23.6	--	--	--	4.8	--	--	--
	0840	50000	180	7.2	23.1	--	--	--	5.7	--	--	--
	1200	50000	195	7.2	23.4	--	--	--	5.5	--	--	--
	1450	50000	188	7.1	23.7	--	--	--	5.2	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOCATION CROSS SECTION (FIT FM L BANK) (00009)	SPECIFIC CONDUCTANCE AREA WTD AVE (UMHOS) (90094)	P4 AREA WTD AVE (UNITS) (90400)	TEMPERATURE AREA WTD AVE (DEG C) (90010)	TRANSPARENCY (SECCHI DISK) X-SECT. AVG. (IN) (90077)	LIGHT DEPTH TO 1% X-SECT. AVG. (FEET) (90034)	LIGHT INCID. 400-700NM X-S.AVG (J-EINS /SQM/S) (90200)	OXYGEN DIS-SOLVED AREA WTD AVE (MG/L) (90300)	CHLORO-PHYLL A FLUORO. MTH COR AREA WTD AVE (UG/L) (92209)	PHAEOPHY -TIN A FLUORO. METHOD AREA WTD AVE (UG/L) (92213)	CHLORO-PHYLL A FLUORO. MTH UCR AREA WTD AVE (UG/L) (92217)
OCT 06...	1130	50000	191	--	18.6	10.0	--	--	7.4	--	--	--
NOV 29...	1350	50000	--	--	--	--	--	--	--	14.3	20.5	19.5
DEC 08...	0800	50000	197	7.8	4.3	30.0	--	--	12.7	--	--	--
JAN 16...	1250	50000	252	8.1	2.8	16.0	--	--	14.3	--	--	--
FEB 19...	0920	50000	293	8.2	.6	9.0	--	--	14.9	--	--	--
MAR 04...	1340	50000	274	8.3	1.2	--	--	--	14.1	--	--	--
06...	1350	50000	318	8.4	2.5	--	--	--	14.7	--	--	--
06...	1710	50000	303	8.4	2.5	--	--	--	14.8	--	--	--
11...	1215	50000	316	8.6	5.4	--	--	--	14.1	--	--	--
11...	1450	50000	317	9.6	5.6	--	--	--	14.1	--	--	--
11...	1810	50000	315	8.5	5.7	--	--	--	14.2	--	--	--
18...	0700	50000	297	8.3	7.4	12.0	--	--	12.1	--	--	--
20...	1000	50000	256	7.8	8.3	--	--	--	11.4	--	--	--
20...	1350	50000	246	7.8	8.7	--	--	--	11.3	--	--	--
25...	1125	50000	155	7.4	8.3	--	--	--	5.8	--	--	--
26...	1300	50000	170	7.0	8.7	--	--	--	9.9	--	--	--
28...	0930	50000	187	7.4	8.9	9.0	--	--	11.1	--	--	--
31...	1135	50000	205	8.1	9.3	--	--	--	10.5	--	--	--
31...	1415	50000	207	8.6	9.4	--	--	--	10.8	--	--	--
APR 03...	0710	50000	197	7.5	10.3	12.0	--	--	9.9	--	--	--
07...	1150	50000	173	7.2	12.3	--	--	--	10.0	--	--	--
07...	1510	50000	168	7.3	12.3	--	--	--	9.9	--	--	--
10...	0550	50000	177	7.0	13.2	15.3	--	--	9.5	--	--	--
10...	0900	50000	176	7.1	13.2	19.0	--	--	9.3	--	--	--
15...	1640	50000	213	7.2	14.6	--	--	--	9.8	--	--	--
18...	1300	50000	186	7.3	13.8	16.7	--	--	9.7	--	--	--
22...	1652	50000	193	7.8	15.6	17.5	--	--	10.4	--	--	--
22...	1931	50000	178	8.0	15.7	--	--	--	10.9	--	--	--
MAY 05...	0925	50000	199	7.3	17.1	22.0	--	--	9.5	--	--	--
05...	1120	50000	201	7.3	17.7	23.3	--	--	9.4	--	--	--
13...	1020	50000	163	7.3	19.0	14.3	--	--	8.7	--	--	--
13...	1325	50000	165	7.3	19.7	13.7	--	--	8.7	--	--	--
18...	1455	50000	194	7.5	20.8	24.0	--	--	8.6	--	--	--
28...	1050	50000	199	7.3	20.9	17.3	--	--	7.8	--	--	--
28...	1315	50000	197	7.2	21.1	22.0	--	--	8.2	--	--	--
30...	1630	50000	178	7.2	21.8	18.0	--	--	8.6	--	--	--
JUN 02...	0715	50000	191	7.1	22.7	15.0	--	--	7.3	--	--	--

APPENDIX B

01658710 - POTOMAC RIVER AT QUANTICO, VA. --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FIR F4 L BANK)	SPECIF- IC CON- DUCTAN- CE	AREA MTD AVE (UMHOS)	P4	TEMPER- ATURE	TRANS- PARENCY (SECCHI DISK)	LIGHT DEPTH TO 1%	LIGHT INCID. 400- 700NM	OXYGEN DIS- SOLVED	CHLORO- PHYLL A FLUORO. MTH COR AREA MTD AVE (US/L)	PHEOPHY -TIN A FLUORO. METHOD AREA MTG AVE (UG/L)	CHLORO- PHYLL A FLUORO. MTH UCR AREA MTG AVE (UG/L)
			(90400)	(90400)	(90010)	(90077)	X-SECT. AVG. (IN)	X-SECT. AVG. (FEET)	X-S.AVG (J-EINS /SQM/S)	(MG/L)	(90300)	(92213)	(92209)
JUN													
02...	1030	50000	191	7.1	22.9	24.0				7.3			
05...	1700	50000	179	7.1	23.7	19.0				7.4			
12...	1115	50000	190	7.6	22.3	20.7				8.2			
17...	1400	50000	192	7.7	22.5	24.0				8.4			
20...	1125	50000	206	7.5	23.0	22.0				7.9			
20...	1710	50000	208	7.9	24.0	22.7				8.6			
20...	1930	50000	212	7.9	23.8	21.3				8.9			
24...	1400	50000	229	7.9	24.5	26.0				9.4			
24...	1640	50000	223	7.9	24.5	24.0				8.3			
27...	0710	50000	257	7.3	24.2	22.7				6.9			
JUL													
04...	0815	50000	249	7.3	26.0	23.7				7.6			
07...	0650	50000	271	7.6	26.0	19.3				6.8			
09...	0720	50000	312	7.0	25.3	20.7				6.1			
10...	1500	50000	260	6.9	26.5	24.0				6.7			
15...	1110	50000	416	7.2	26.9	21.6				7.0			
16...	0755	50000	292	7.1	27.1	18.5				6.7			
21...	1810	50000	292	7.3	30.4					7.7			
22...	0650	50000	314	7.6	29.0	24.0				6.2			
29...	1300	50000	335	7.3	28.5					6.8			
30...	1100	50000	919	7.3	28.3	20.7				6.3			
31...	1110	50000				21.0							
AUG													
06...	1025	50000	377	7.5	29.5	22.7		7.35	1300	5.5			
11...	1110	50000	991	7.6	30.0	20.3				6.6			
13...	1040	50000	1200	7.3	29.2	31.0		6.00	767	5.9			
19...	1010	50000	786	7.5	26.5	18.3		5.30	200	6.6			
20...	1935	50000	1030	7.0	26.2	18.3		6.47	10.9	5.7			
25...	2145	50000	2810	7.9	26.1					7.2			
28...	1630	50000	1410	7.4	27.2	18.0		6.30	570	7.6			
SEP													
03...	2145	50000	1010	7.5	28.6					6.6			
04...	0750	50000	1670	7.2	27.6	22.0				6.1			
08...	1030	50000	2060	7.0	27.0	21.3				5.8			
11...	1830	50000	1710	7.3	25.8	15.0				7.0			
15...	1945	50000	1860	7.5	25.3					7.0			
22...	1015	50000	2930	7.5	24.8					7.0			

APPENDIX B
 01658710 -- POTOMAC RIVER AT QUANTICO, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	AREA WTG AVEI (UMHOS) (90094)	PH	TEMPER- ATURE	TRANS- PARENCY (SECCHI DISK)	LIGHT DEPTH TO 1% X-SECT. AVG. (FEET) (90034)	LIGHT INCID. 400- 700NM X-S-AVG (J-EINS /SQM/S) (90200)	OXYGEN DIS- SOLVED AREA WTG AVEI (MG/L) (90300)	CHLORO- PHYLL A FLUORO, MTH COR AREA WTG AVEI (UG/L) (92209)	PHEOPHY -TIN A FLUORO, MET-HO AREA WTG AVEI (UG/L) (92213)	CHLORO- PHYLL A FLUORO, MTH UCR AREA WTG AVEI (UG/L) (92217)
OCT												
02...	1850	50000	4590	7.2	22.0	--	--	--	6.5	--	--	--
03...	0755	50000	4330	6.8	21.0	22.5	--	--	6.9	--	--	--
09...	1415	6900	--	--	--	16.0	--	--	--	--	--	--
21...	1410	6000	--	--	--	24.0	2.90	920	--	--	--	--
MAR												
11...	1415	6000	--	--	--	6.0	--	--	--	--	--	--
18...	0900	6000	--	--	--	6.0	--	--	--	--	--	--
24...	1330	6000	--	--	--	12.0	--	--	--	--	--	--
APR												
01...	1400	6000	--	--	--	18.0	--	--	--	--	--	--
15...	1050	6000	--	--	--	6.0	2.50	1500	--	--	--	--
17...	0925	6000	--	--	--	12.0	--	--	--	--	--	--
22...	1300	6000	--	--	--	12.0	--	--	--	--	--	--
29...	1300	6000	--	--	--	16.0	--	--	--	--	--	--
MAY												
04...	0935	6000	--	--	--	10.0	--	--	--	--	--	--
12...	1500	6000	--	--	--	22.0	--	--	--	--	--	--
19...	1120	6000	--	--	--	12.0	3.10	165	--	--	--	--
28...	1300	6000	--	--	--	18.0	--	--	--	--	--	--
JUN												
15...	1000	6000	--	--	--	19.0	--	--	--	--	--	--
JUL												
08...	1520	50000	807	7.4	27.1	18.0	6.80	775	7.8	--	--	--
15...	1455	6000	--	--	--	24.0	6.00	2000	--	--	--	--
20...	1030	50000	4320	7.5	28.1	20.0	--	--	6.9	--	--	--
20...	2100	50000	4130	7.7	28.5	--	--	--	7.5	--	--	--
21...	0710	50000	3160	7.5	28.0	21.0	--	--	6.5	--	--	--
21...	2030	50000	3130	7.6	28.6	--	--	--	7.1	--	--	--
22...	1010	50000	3090	7.5	28.0	18.0	--	--	6.5	--	--	--
28...	0845	6000	--	--	--	22.0	5.50	600	--	--	--	--
AUG												
06...	1800	50000	2890	7.2	27.2	20.0	--	--	5.8	--	--	--
17...	1745	6000	--	--	--	23.0	--	--	--	--	--	--
18...	0845	6000	--	--	--	17.0	--	--	--	--	--	--
18...	0905	2300	--	--	--	25.0	--	--	--	--	--	--
24...	2230	50000	5540	7.4	24.3	--	--	--	7.2	--	--	--
25...	1045	50000	5210	7.4	24.0	18.5	5.05	1280	7.0	--	--	--
25...	1800	50000	6160	7.8	24.3	18.0	4.50	95.0	7.5	--	--	--
26...	1100	50000	1920	7.5	24.1	16.5	4.80	1230	8.3	--	--	--
26...	1730	50000	7070	7.8	25.0	18.5	4.65	570	8.3	--	--	--
SEP												
03...	0845	6000	--	--	--	24.0	--	--	--	--	--	--
10...	1025	6000	--	--	--	23.0	--	--	--	--	--	--
16...	0715	6000	--	--	--	14.0	--	--	--	--	--	--

APPENDIX C - Sewage-Treatment-Plant Loads.

Table C-1.--Blue Plains sewage treatment plant loads in metric tons per month

Month	Year	Discharge (in m ³ /s)	Total phos- phorus (as P)	Dissolved phos- phorus (as P)	Nitrogen ammonia + organic total (as N)	Dissolved ammonia (as N)	Dissolved nitrogen NO ₂ + NO ₃ (as N)	Dissolved silica (as SiO ₂)	Suspended solids par- ticulate	Biochemical oxygen demand uninhibited ultimate
October	1978	12	55	30	402	243	11	315	843	1178
November	1978	13	50	27	476	626	9	323	899	1434
December	1978	13	57	31	616	609	9	343	1027	1683
January	1979	13	54	29	603	610	35	346	1285	1714
February	1979	13	49	27	497	454	16	280	751	1148
March	1979	13	50	28	391	459	14	348	1004	1366
April	1979	13	60	33	425	358	6	324	736	1405
May	1979	13	55	30	396	286	11	334	757	1342
June	1979	14	64	35	415	290	21	347	609	1128
July	1979	13	43	24	552	435	31	346	570	1122
August	1979	14	46	25	524	463	26	371	459	953
September	1979	15	43	24	557	408	44	381	549	907
October	1979	16	52	29	501	557	61	419	821	1037
November	1979	14	52	29	409	483	45	361	632	948
December	1979	14	22	12	633	498	49	363	524	730
January	1980	15	27	15	508	551	10	379	704	751
February	1980	14	36	20	590	525	4	347	429	600
March	1980	16	61	33	707	603	8	421	1387	1873
April	1980	17	63	34	667	559	8	434	940	1477
May	1980	17	89	49	699	556	7	432	1335	1268
June	1980	16	75	41	651	560	9	402	580	802
July	1980	16	65	36	421	321	176	421	607	1086
August	1980	16	52	29	362	259	220	424	568	989
September	1980	16	41	22	354	256	254	395	407	953
October	1980	14	26	14	215	159	258	359	222	888
November	1980	14	33	18	126	82	398	361	521	541
December	1980	13	43	24	130	58	302	349	828	502
January	1981	14	51	28	247	142	212	353	1128	1031
February	1981	14	33	18	137	74	341	324	568	346
March	1981	14	43	24	127	87	369	351*	579	363
April	1981	14	36	20	121	114	351	347	500	718
May	1981	15	68	37	111	64	469	385	636	560
June	1981	16	40	22	105	69	526	393	405	437
July	1981	16	29	16	105	50	433	408	421	467
August	1981	15	32	18	89	40	474	393	445	449
September	1981	14	41	22	86	37	401	364	487	394

Table C-2 --Reach 1 sewage treatment plant loads in metric tons per month

Month	Year	Discharge (in m ³ /s)	Total phos- phorus (as P)	Dissolved phos- phorus (as P)	Nitrogen ammonia + organic total (as N)	Dissolved ammonia (as N)	Dissolved nitrogen NO ₂ + NO ₃ (as N)	Dissolved silica (as SiO ₂)	Suspended solids par- ticulate	Biochemical oxygen demand uninhibited ultimate
October	1978	0.9	7.3	6.5	40	35	5.0	33	78	60
November	1978	0.9	10.0	9.0	39	34	4.9	32	56	49
December	1978	1.0	7.9	7.1	41	36	5.1	33	56	43
January	1979	1.0	7.6	6.8	42	37	5.2	34	50	42
February	1979	1.1	6.1	5.6	43	37	5.3	35	58	45
March	1979	1.0	7.5	6.8	42	36	5.2	34	73	57
April	1979	1.0	8.8	8.0	43	37	5.3	35	51	32
May	1979	1.0	7.6	6.8	42	37	5.2	34	50	42
June	1979	1.0	7.2	6.5	40	35	5.0	32	17	22
July	1979	0.9	8.4	7.7	40	35	4.9	32	25	32
August	1979	1.0	5.7	5.2	42	37	5.2	34	26	37
September	1979	1.0	5.5	5.0	40	35	5.0	33	30	28
October	1979	1.0	6.6	6.0	44	38	5.5	36	38	47
November	1979	1.0	9.6	8.5	40	35	5.0	33	78	231
December	1979	1.0	9.5	8.5	41	36	5.1	33	49	77
January	1980	1.0	9.6	8.6	41	36	5.1	33	48	43
February	1980	0.9	8.9	8.0	37	33	4.7	30	37	68
March	1980	1.0	11.3	10.1	45	39	5.6	37	45	70
April	1980	1.0	8.8	7.8	40	35	5.0	33	40	68
May	1980	1.0	9.0	7.9	41	36	5.1	33	46	54
June	1980	0.9	3.8	3.3	38	33	4.8	31	26	29
July	1980	1.1	2.5	2.3	45	40	5.7	37	20	20
August	1980	0.9	3.9	3.5	40	35	4.9	32	30	27
September	1980	1.0	2.7	2.4	43	37	5.3	35	19	35
October	1980	1.0	3.8	3.6	33	25	16.4	36	16	38
November	1980	0.9	5.1	4.6	29	22	14.7	32	44	51
December	1980	1.0	6.0	5.5	31	23	15.6	34	37	65
January	1981	0.9	5.3	4.8	30	23	15.0	33	40	68
February	1981	1.0	4.6	4.1	28	21	13.8	30	60	74
March	1981	0.9	5.6	5.1	30	23	15.1	33	33	61
April	1981	1.0	5.9	5.4	29	22	14.7	32	27	59
May	1981	1.0	6.7	5.9	31	23	15.5	34	18	52
June	1981	1.0	4.7	4.2	29	22	14.7	32	10	29
July	1981	0.9	4.1	3.6	29	22	14.5	31	10	34
August	1981	1.0	4.4	3.9	31	23	15.6	34	10	31
September	1981	1.0	4.8	4.3	30	23	15.1	33	13	28

Table C-3 --Reach 2 sewage treatment plants loads in metric tons per month

Month	Year	Discharge (in m ³ /s)	Total phos- phorus (as P)	Dissolved phos- phorus (as P)	Nitrogen ammonia + organic total (as N)	Dissolved ammonia (as N)	Dissolved nitrogen NO ₂ + NO ₃ (as N)	Dissolved silica (as SiO ₂)	Suspended solids par- ticulate	Biochemical oxygen demand uninhibited ultimate
October	1978	2.1	12.9	7.3	95	73	8.4	73	84	140
November	1978	2.1	13.9	7.8	95	72	8.3	72	89	156
December	1978	2.4	9.7	5.2	110	84	9.7	84	91	130
January	1979	3.1	10.9	5.9	143	109	12.6	109	151	168
February	1979	3.1	10.4	5.9	126	96	11.1	96	155	185
March	1979	3.1	9.0	4.9	140	107	12.3	107	132	189
April	1979	2.5	8.4	4.5	110	84	9.7	84	103	142
May	1979	2.5	9.2	5.3	112	86	9.9	86	105	178
June	1979	2.6	9.6	5.5	116	89	10.3	89	123	198
July	1979	2.4	8.9	5.1	108	83	9.5	83	76	134
August	1979	2.6	9.7	5.6	118	90	10.4	90	77	139
September	1979	2.8	8.1	4.4	124	95	11.0	95	88	117
October	1979	3.0	9.0	4.9	139	106	12.3	106	98	139
November	1979	2.5	9.2	5.3	111	85	9.8	85	72	111
December	1979	2.3	9.1	4.9	104	79	9.1	79	92	116
January	1980	2.5	10.1	5.4	114	87	10.1	87	94	141
February	1980	2.4	10.2	5.4	102	78	9.0	78	90	137
March	1980	2.8	8.4	4.6	129	99	11.4	99	114	175
April	1980	2.7	6.4	3.6	121	92	10.6	92	92	163
May	1980	2.5	8.2	4.8	116	88	10.2	88	102	157
June	1980	2.3	8.2	4.7	99	76	8.8	76	76	117
July	1980	2.2	7.1	4.1	100	76	8.8	76	71	124
August	1980	2.1	6.9	4.0	98	75	8.6	75	52	109
September	1980	2.2	6.2	3.4	95	73	8.4	73	51	123
October	1980	2.1	7.4	4.0	114	91	18.8	74	63	194
November	1980	2.0	5.3	2.7	106	85	17.5	69	64	176
December	1980	2.0	5.3	2.6	105	84	17.4	68	74	168
January	1981	2.0	3.7	2.1	105	84	17.3	68	68	147
February	1981	2.1	8.9	4.7	104	83	17.2	68	78	161
March	1981	2.0	7.0	3.8	108	86	17.8	70	124	280
April	1981	2.1	5.4	2.7	107	86	17.7	70	91	214
May	1981	2.2	9.3	5.2	116	93	19.1	75	81	162
June	1981	2.1	3.3	1.7	112	89	18.4	72	67	123
July	1981	2.1	3.4	1.7	113	91	18.7	74	68	136
August	1981	2.0	3.2	1.6	106	85	17.5	69	80	191
September	1981	2.0	3.1	1.5	103	82	16.9	67	72	154

Table C-4 --Reach 3 sewage treatment plants loads in metric tons per month

Month	Year	Discharge (in m ³ /s)	Total phos- phorus (as P)	Dissolved phos- phorus (as P)	Nitrogen ammonia organic total (as N)	Dissolved ammonia (as N)	Dissolved nitrogen NO ₂ + NO ₃ (as N)	Dissolved silica (as SiO ₂)	Suspended solids par- ticulate	Biochemical oxygen demand uninhibited ultimate
October	1978	0.9	11.3	6.1	47	38	4.7	31	14	24
November	1978	0.8	10.5	5.7	40	32	4.0	26	12	16
December	1978	0.9	11.3	6.2	46	37	4.6	30	14	21
January	1979	1.0	12.5	6.9	53	43	5.3	35	37	35
February	1979	1.1	12.3	6.7	51	41	5.1	33	26	41
March	1979	1.1	11.1	6.1	58	47	5.8	38	29	38
April	1979	2.1	13.4	7.2	111	89	11.1	72	33	39
May	1979	0.9	11.4	6.2	50	40	5.0	32	17	22
June	1979	1.0	9.3	5.1	49	39	4.9	32	20	17
July	1979	0.9	7.5	4.2	47	37	4.7	30	12	23
August	1979	0.9	6.9	3.8	48	38	4.8	31	19	29
September	1979	1.0	3.9	2.1	52	42	5.2	34	16	31
October	1979	1.1	12.2	6.7	58	46	5.8	38	38	49
November	1979	0.9	11.0	6.0	48	38	4.8	31	26	36
December	1979	0.9	8.3	4.6	49	39	4.9	32	10	34
January	1980	1.0	7.0	3.9	52	41	5.2	34	10	36
February	1980	0.9	11.2	6.1	44	35	4.4	28	13	35
March	1980	0.9	6.8	3.8	50	40	5.0	33	10	38
April	1980	1.0	5.5	3.0	50	40	5.0	33	15	50
May	1980	1.0	6.6	3.6	51	41	5.1	33	25	43
June	1980	0.9	4.5	2.4	45	36	4.5	29	13	36
July	1980	0.8	2.9	1.6	45	36	4.5	29	7	34
August	1980	0.9	6.6	3.6	45	36	4.5	29	14	36
September	1980	0.9	1.3	0.7	45	36	4.5	29	5	25
October	1980	0.9	0.5	0.2	48	38	4.8	31	5	43
November	1980	0.9	0.5	0.2	46	37	4.6	30	7	32
December	1980	0.9	0.5	0.2	47	38	4.7	31	9	28
January	1981	0.9	0.5	0.2	47	38	4.7	31	9	21
February	1981	1.1	2.4	1.4	43	33	16.3	35	11	35
March	1981	1.3	4.4	2.4	54	40	20.2	44	10	37
April	1981	1.2	3.9	2.3	51	39	19.3	42	6	39
May	1981	1.3	4.6	2.5	56	42	21.1	46	4	42
June	1981	1.3	6.3	3.5	56	42	21.0	46	4	67
July	1981	1.4	4.7	2.5	58	44	21.8	47	4	29
August	1981	1.3	5.3	2.8	56	42	21.1	46	7	21
September	1981	1.3	1.4	0.7	55	41	20.5	44	3	20

Appendix C

Table C-5.--Total combined sewage treatment plants loads in metric tons per month

Month	Year	Discharge (in m ³ /s)	Total phos- phorus (as P)	Dissolved phos- phorus (as P)	Nitrogen ammonia + organic total (as N)	Dissolved ammonia (as N)	Dissolved nitrogen NO ₂ + NO ₃ (as N)	Dissolved silica (as SiO ₂)	Suspended solids par- ticulate	Biochemical oxygen demand uninhibited ultimate
October	1978	16	87	50	584	389	29	450	1019	1401
November	1978	17	84	50	649	764	27	453	1056	1654
December	1978	17	86	50	813	766	29	491	1187	1877
January	1979	18	85	49	841	799	58	524	1523	1958
February	1979	17	78	45	716	628	37	444	991	1419
March	1979	19	78	45	631	649	37	526	1237	1650
April	1979	19	91	53	688	568	32	515	923	1618
May	1979	17	83	49	599	448	31	486	929	1584
June	1979	18	91	53	620	453	42	500	769	1366
July	1979	17	68	40	747	589	50	491	683	1311
August	1979	19	68	40	732	628	47	527	581	1158
September	1979	20	61	35	774	580	65	542	683	1083
October	1979	21	80	46	742	748	85	599	995	1272
November	1979	19	82	48	609	642	64	510	809	1327
December	1979	18	49	30	826	652	68	508	674	957
January	1980	19	54	33	715	716	31	533	857	971
February	1980	18	66	39	773	671	22	483	569	841
March	1980	21	87	52	931	781	30	589	1557	2156
April	1980	22	83	49	878	727	29	592	1087	1758
May	1980	21	113	65	906	721	27	586	1508	1522
June	1980	20	91	51	832	704	27	538	696	983
July	1980	20	78	44	611	473	195	563	704	1263
August	1980	20	70	40	545	404	238	560	663	1162
September	1980	20	51	29	537	403	272	532	481	1135
October	1980	18	38	22	409	313	298	500	306	1163
November	1980	18	44	26	308	226	435	491	635	800
December	1980	17	55	32	313	203	340	482	948	764
January	1981	17	60	35	430	286	249	485	1246	1267
February	1981	18	49	29	312	210	388	457	717	616
March	1981	18	60	35	318	236	422	497	745	741
April	1981	18	51	30	310	261	403	490	625	1030
May	1981	19	88	51	314	222	524	540	738	816
June	1981	20	55	32	302	222	581	543	485	656
July	1981	20	42	24	306	207	488	560	502	666
August	1981	19	45	26	283	191	528	541	542	693
September	1981	19	50	29	274	183	454	507	575	596

Appendix C

Table C-6--Silica and nitrogen-specie concentrations used to compute loads

Reach	Water year	[mg/L]			
		Dissolved nitrogen ammonia + organic (as N)	Dissolved ammonia (as N)	Dissolved nitrogen NO ₂ + NO ₃ (as N)	Dissolved silica (as SiO ₂)
1	1979 - 80	16	14	2	13
1	1981	12	9	6	13
2	1979 - 80	17	13	1.5	13
2	1981	20	16	3.3	13
3	1979 - 80	20	16	2	13
3	October 1980 to January 1981	20	16	2	13
3	February 1981 to September 1981	16	12	6	13
Blue Plains	1979 - 80	--	--	--	9.7
Blue Plains	1981	--	--	--	9.7

☆ U.S. GOVERNMENT PRINTING OFFICE: 1984-421-614/10063