

WATER QUALITY OF THE
TIDAL POTOMAC RIVER AND ESTUARY
HYDROLOGIC DATA REPORT
1981 WATER YEAR

Stephen F. Blanchard and Richard H. Coupe Jr.

with a section on

CHLOROPHYLL-A: COLLECTION AND ANALYSIS

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IPS and metric conversions

Multiply	by <u>Length</u>	To obtain
inches (in)	2.54 0.0254	centimeters (cm) meters (m)
feet (ft)	0.3048 30.48	meters (m) centimeters (cm)
miles (mi)	1.6093	kilometers (km)
nautical miles (nt mi)	1.8530	kilometers (km)
<u>Volume</u>		
U.S. gallons (gal)	3.785	liters (l)
cubic feet (ft ³)	0.02832	cubic meters (m ³)
<u>Flow</u>		
cubic feet/second (ft ³ /sec)	0.02832	cubic meters/second (m ³ /sec)
<u>Temperature</u>		
degrees Fahrenheit (F°)	(F° - 32) x .555	degrees Celcius (C°)
degrees Celcius (C°)	• (C° x 1.8) + 32	degrees Fahrenheit (F°)

Nitrogen and phosphorus species conversions

To convert mg/l of:	To mg/l of:	Multiply by
NH ₄	N	0.7765
NO ₃	N	0.2258
NO ₂	N	0.3045
N	NH ₄	1.289
N	NO ₃	4.429
N	NO ₂	3.284
PO ₄	P	0.3872
P	PO ₄	2.583

Factors for conversions to equivalent-weight units

Element and species Concentration in mg/l	To convert to milliequivalents/liter multiply by	To convert to millimoles/liter multiply by	To convert to microgram-atoms/liter multiply by
Alkalinity	0.19988	0.01998	19.98
Ammonium (NH ₄ ⁺)	.05544	.05544	55.44
Bicarbonate (HCO ₃ ⁻)	.01639	.01639	16.39
Calcium (Ca ⁺²)	.04990	.02495	24.95
Chloride (Cl ⁻)	.02821	.02821	28.21
Flouride (F ⁻)	.05264	.05264	52.64
Magnesium (Mg ⁺²)	.08226	.04113	41.13
Nitrate (NO ₃ ⁻)	.01613	.01613	16.13
Nitrite (NO ₂ ⁻)	.02174	.02174	21.74
Nitrogen (N ⁻³)	.07139	.07139	71.39
Phosphate (PO ₄ ⁻³)	.03159	.01053	10.53
Phosphorus (P)	.03229	.03229	32.29
Potassium (K)	.02557	.02557	25.57
Silica (SiO ₂)		.01644	16.44
Sodium (Na ⁺²)	.04350	.04350	43.50
Sulfate (SO ₄ ⁻²)	.02082	.01041	10.41

Equations for converting concentrations in milligrams per liter (mg/l) to milliequivalents per liter and millimoles per liter are presented by Hem (1970). An equation for converting milligrams per liter to microgram-atoms per liter (µg-at/l) is presented below.

concentrations in mg/l x 1000 ÷ formula weight = concentrations in µg-at/l

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ABSTRACT

This report contains data on the physical and chemical properties measured in the Tidal Potomac River and Estuary during the 1981 water year. Data were collected at least weekly at five stations and periodically at 15 stations and at two other stations near the mouth of the Potomac River in Chesapeake Bay. Each of the five stations represent a cross section at which the transport of selected dissolved and suspended materials can be computed. The remaining 17 stations are locations at which data were collected for special studies of selected phenomena, such as salt water migration and dissolved oxygen dynamics. Samples were routinely analyzed for chlorophyll-a, nitrogen, pheophytin, phosphorus, silica and suspended sediment. Additional samples were analyzed for adenosine triphosphate, algal growth potential, alkalinity, calcium, chloride, dissolved-solids residue, fluoride, iron, manganese, magnesium, nitrifying bacteria, organic carbon, potassium, seston, sodium, and sulfate. In addition, in situ measurements of dissolved oxygen, specific conductance, pH, temperature, solar radiation, and Secchi disk transparency were made.

INTRODUCTION

The Survey (U.S. Geological Survey) is conducting an interdisciplinary study of the Tidal Potomac River and Estuary. This study, for the first time, blends Survey research with RQA (river-quality assessment) in the study of an estuarine environment. The overall goal is 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). One of the results of that fieldwork and the research of Glenn (1978) was the selection of five major stations at which the transport of dissolved and suspended materials would be examined in detail. This report makes available data collected during the 1981 water year at those five stations, at 15 intervening stations, and at two stations near the mouth of the Potomac River in the Chesapeake Bay. This is the third in a series of three hydrologic data reports: one for each of three water years - 1979 (Blanchard and Hahl, 1981), 1980 (Blanchard, Coupe and Woodward, 1982) and 1981.

The Tidal Potomac River and 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 and is influenced by riverine and tidal flows. The estuarine zone contains only saline water and is strongly influenced by tidal flow. The sampling stations (figs. 2, 3, and 4) are located to document movement of selected dissolved and suspended materials through each major zone and to provide data for several research studies and the RQA.

Sampling stations are listed below and their respective hydrodynamic zone indicated. River distances, in kilometers, are measured from the center of a line drawn between Smith Point and Point Lookout at the mouth of the river (fig. 4).

Major stations

Station number	Station name	River distance (kilometer)	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

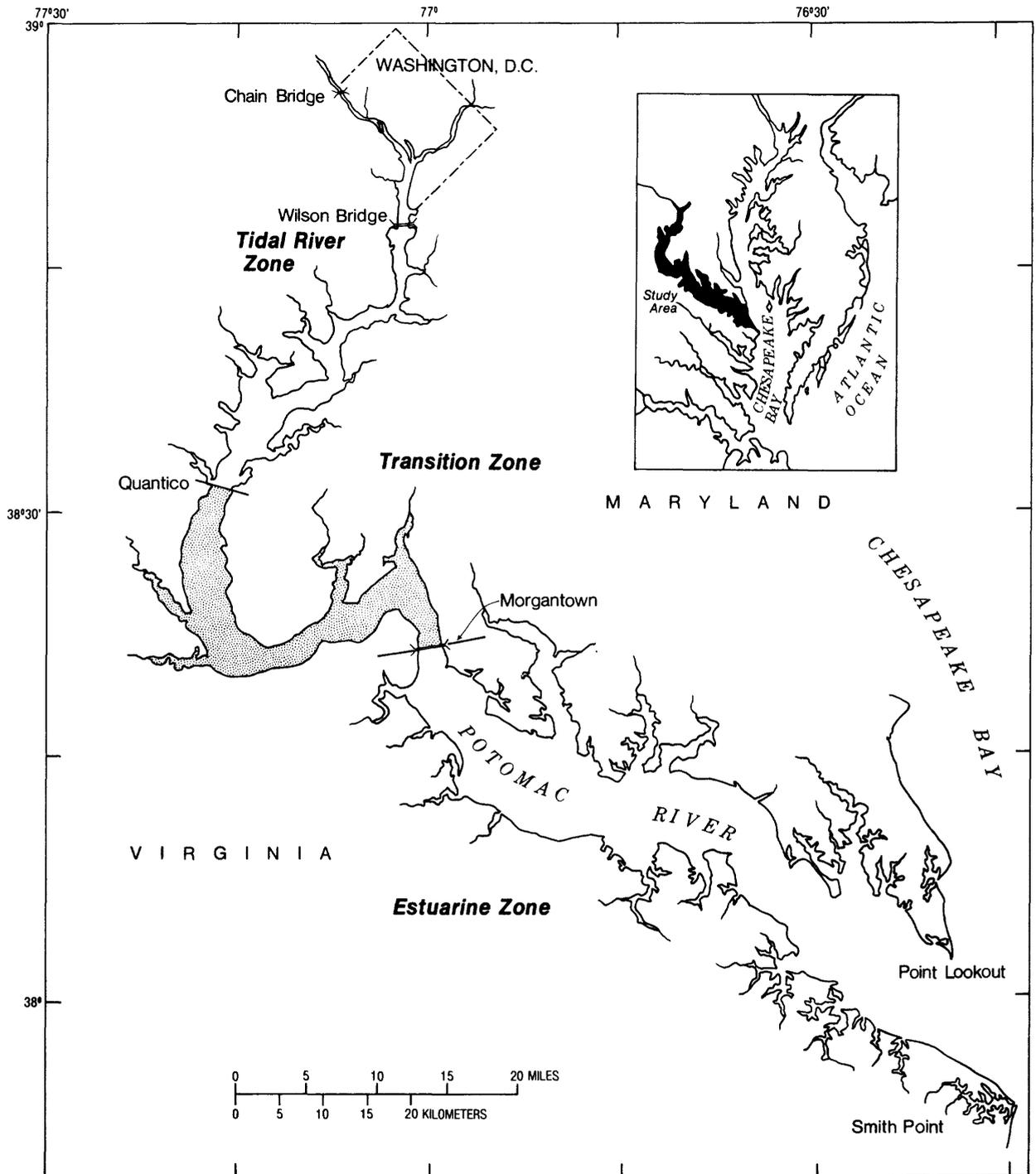


Figure 1.-- Tidal Potomac River and Estuary

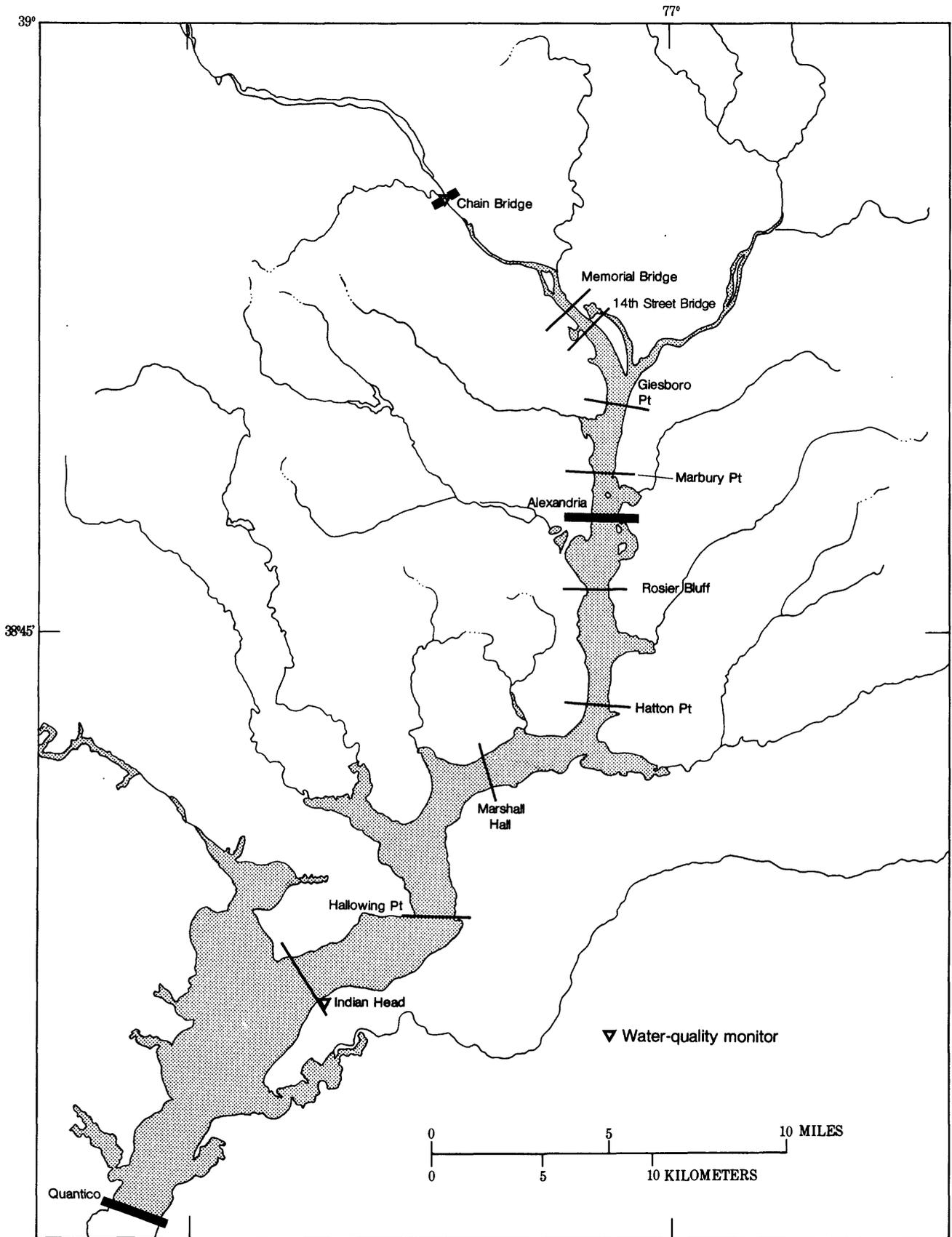


Figure 2.-- Tidal river zone showing major sampling stations (wide lines) and intervening sampling stations (narrow lines)

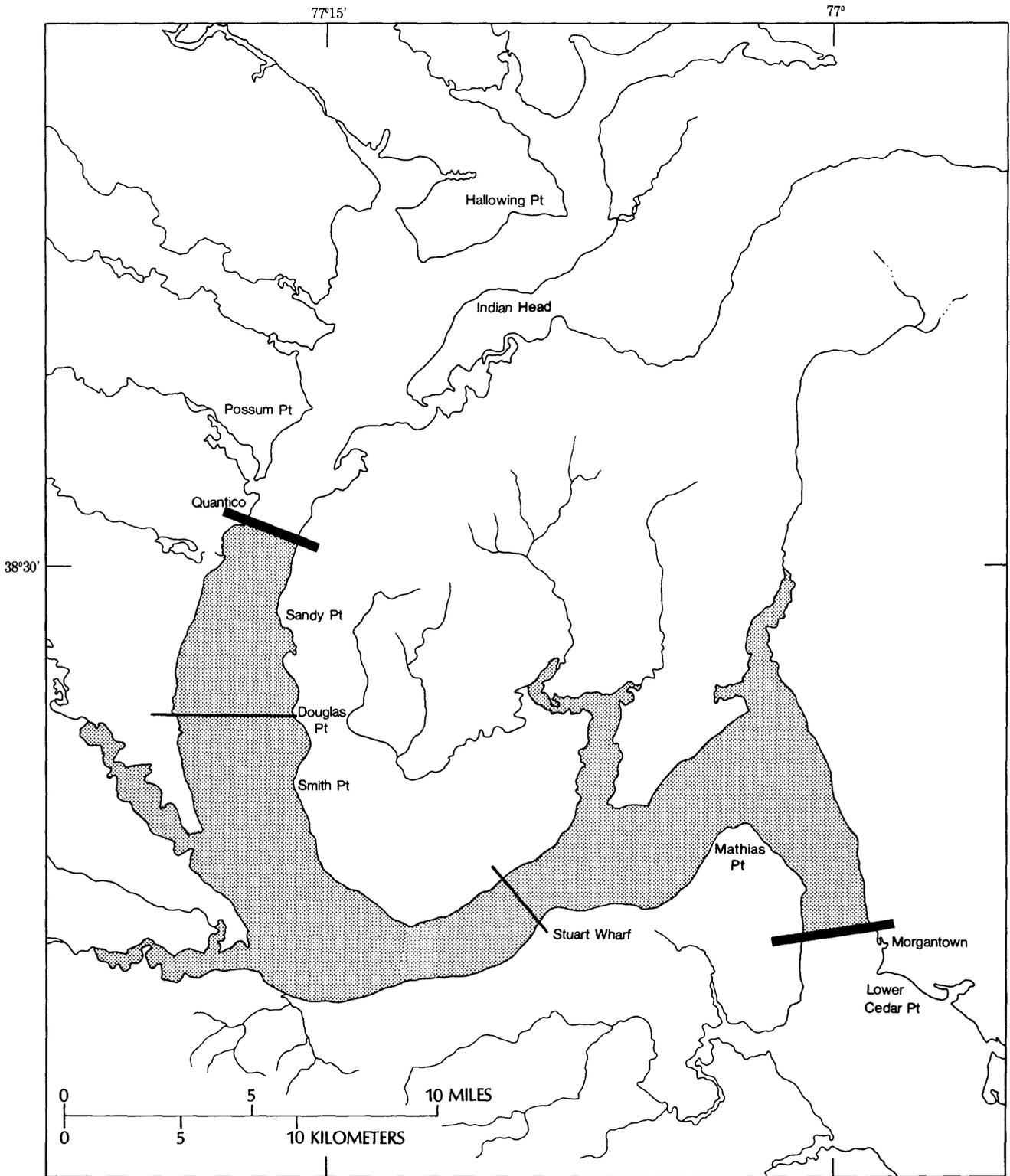


Figure 3.-- Transition zone showing major sampling stations (wide lines) and intervening sampling stations (narrow lines)

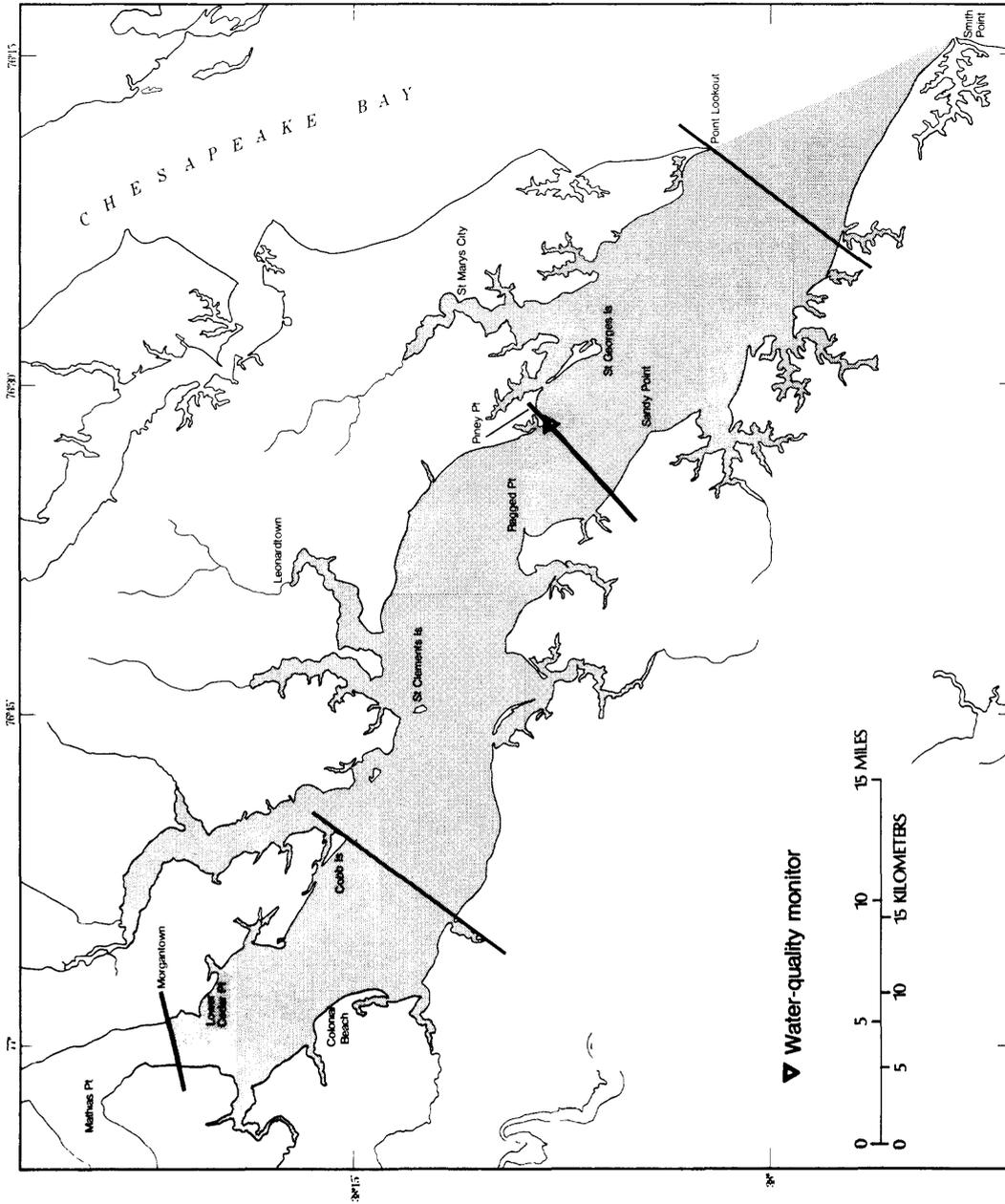


Figure 4.-- Estuarine zone showing major sampling stations (wide lines) and intervening sampling stations (narrow lines)

Station number	Station name	River distance (kilometer)	Date activated	Zone
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

Intervening stations

Station number	Station name	River distance (kilometer)	Zone
385315077031800	Potomac River at Memorial Bridge, Washington, D.C.	179.5	Tidal river
385223077022400	Potomac River at 14th Street Bridge, Washington, D.C.	177.3	Tidal river
385039077012600	Potomac River at Giesboro Point, Washington, D.C.	173.7	Tidal river
384852077020500	Potomac River at Marbury Point, Washington, D.C.	170.4	Tidal river
384852077014001	Blue Plains Sewage Treatment Plant, Outfall 001, Washington, D.C.		
384852077014002	Blue Plains Sewage Treatment Plant, Outfall 002, Washington, D.C.		
384605077015800	Potomac River at Rosier Bluff, Md.	165.6	Tidal river
384318077020300	Potomac River at Hatton Point, Md.	160.0	Tidal river
384136077054600	Potomac River at Marshall Hall, Md.	151.0	Tidal river

Station number	Station name	River distance (kilometer)	Zone
383818077072800	Potomac River at Hallowing Point, Va.	144.0	Tidal river
01655480	Potomac River at Indian Head, Md.	138.9	Tidal river
382640077159900	Potomac River at Douglas Point, Md.	116.7	Transition
382233077102000	Potomac River at Stuart Wharf, Va.	98.9	Transition
381516076503000	Potomac River at Cobb Island, Md.	60.0	Estuarine
380212076195000	Potomac River at Pt. Lookout, Md.	6.5	Potomac Estuary- Chesapeake Bay boundary

Chesapeake Bay stations

Station number	Station name	Latitude and Longitude	
380200076124100	Chesapeake Bay near Potomac River off Pt. Lookout, Md. Trench	38°02'00"	76°12'41"
375248076094200	Chesapeake Bay near Potomac River off Smith Pt., Va.	37°52'48"	76°09'42"

Data on dissolved and suspended material in water passing each sampling station during the 1981 water year are listed in appendix A. These data are listed in downstream order, starting with the Potomac River at Chain Bridge.

Samples were collected at least once a week at each of the five major stations. Samples were collected for predicted 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 a day. Predicted tidal currents and tidal stages for specific sampling times may be obtained from the National Ocean Survey's Tidal Current Tables (1979a, 1980a) and Tide Tables (1979b, 1980b). Relevant parts of these tables are reproduced in appendix B. The predicted tides do not always agree with actual conditions. Tidal stages were measured at Survey installations on the Potomac River at the following stations:

Station number	Station name	Date activated
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 at Morgantown, Md.	January, 1979
01661475	Potomac River at Piney Point, Md.	August, 1979
01661590	Potomac River at Pt. Lookout, Md.	January, 1979

Data can be obtained for these stations through the PES Hydrodynamics Group (Oral commun., R. W. Schaffranek, U.S. Geol. Survey, Reston, VA., July, 1981).

In addition to the 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.

In addition to the sampling program outlined above, three water-quality monitors and two pyranometers were in operation. The water-quality monitors were operated 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, 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 free from surrounding obstacles. The millivolt signal from each pyranometer was continuously recorded on Instrument Corporation of America strip chart recorders.

The daily insolation values were obtained by integrating the area under the trace of the millivolt output signal from the pyranometer. Data from these pyranometers are reported in appendix C.

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

ACKNOWLEDGMENTS

We would like to thank David Shultz for providing all the solar radiation, adenosine triphosphate, and nitrifying bacteria data in this report.

In addition we are grateful to the many people who live and work along the Tidal Potomac River and Estuary who have cooperated with us in making our fieldwork successful.

METHODS OF SAMPLE COLLECTION

To be truly representative, a water sample for analysis of both dissolved and suspended material 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 sample that distribution representatively 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 and complicates the computation of transported dissolved and suspended material. Superimposed on the semidiurnal tide of the Potomac River are changes in riverine flow and in oceanic tides. 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.

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 fresh water 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 (meters) wide; this constriction insures thorough mixing. During flooding, samplers cannot be submerged more than 3 m because water velocities are about 4.5 m/s (meters/second). Therefore, 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 that represent the entire cross section were collected from one vertical in this channel. For the periods when the dissolved-solids 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 samples were obtained.

In the lower end of the transition zone and in the estuarine zone of the tidal Potomac, specific conductance gradients exist in the water column. To obtain representative samples here, separate top and bottom samples were collected. 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, at Piney Point, top and bottom

point samples were collected from specific sampling locations in the cross section.

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

Longitudinal sampling.- In addition to the other sampling, each month a 2- to 3-day longitudinal river sampling cruise was made between Potomac River at Memorial Bridge, Washington, D.C. and Chesapeake Bay. Samples were collected at all of the five major stations, at the two Chesapeake Bay stations and at most of the intervening stations. The dates of the longitudinal sampling cruises are listed below.

October 21-22, 1980	April 15-16, 1981
November 17-18, 1980	May 19-20, 1981
December 15-16, 1980	June 30-July 1, 1981
January 22, 1981	July 27-28, 1981
February 4-5, 1981	August 17-19, 1981
March 3-4, 1981	September 21-22, 1981

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 Niskin samplers are open cylinders having spring loaded stoppers at each end. These samplers are lowered while open to the sampling depth. The stoppers are triggered shut; and the captured water is then brought into the boat and distributed into the sample containers. These are point samplers, designed for use in still waters and which 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 a 0.8-m depth interval. These samplers can also be oriented to sample horizontally, thus restricting the sampled depth interval to the diameter of the cylinder (0.08 m).

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 15-cm 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 as long as 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 consists of an intake house, a shipboard pump or submersible pump, and a discharge hose. The shipboard pump was a Teel compact marine-utility pump. The intake hose used with this pump was a 1.9-cm diameter garden hose. The submersible pump was a Gould 1/2 horsepower, 10-cm diameter pump. The intake hose used with this pump was a 2.5-cm-diameter garden hose. The pumping rates for the shipboard pump and the submersible pump were 17.7 liters per minute and 37.9 liters per minute, respectively. 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 a tube from which samples are collected. The pumping sampler is a point sampler that provides the opportunity to evaluate changes in water quality with depth instantaneously to determine the need to obtain additional samples. 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.

In situ measurements.- A Secchi disk was used to obtain water transparency measurements, and a Hydrolab Digital 4041 water-quality-measurement system was used to measure dissolved oxygen, specific conductance, pH, temperature. 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 of samplers used is as follows:

Tidal river zone:	Open bottle with vent tube
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

Filtration of samples.- Dissolved material is defined as substances in a water sample that will pass through a 0.45 micron (μ) filter. All samples analyzed for dissolved constituents were collected after 500 ml of sample were passed through a 142mm diameter, 0.45 Millipore type HA filter. The sample was passed through the filter using a peristaltic pump. Dissolved organic carbon samples were filtered through a glass fiber filter. The glass fiber filters for organic carbon were baked before use at 450°C for 4 hours to reduce blanks.

Sample analyses.- Concentrations of algal-growth potential, alkalinity, calcium, chloride, dissolved-solids residue, fluoride, iron, manganese, magnesium, nitrogen, organic carbon, phosphorus, potassium, seston, silica,

sodium, and sulfate reported herein were determined at the Atlanta Central Water Quality Laboratory of the U.S. Geological Survey, by methods described by Skougstad and others (1979) and American Public Health Association and others (1975). Adenosine triphosphate (ATP) samples were extracted according to the procedures described by Stephens and Shultz (1981) and analyzed according to the procedures outlined by Shultz and Stephens (1980). Numbers of Nitrosomonas sp. and Nitrobacter sp. were based on the most probable number (MPN) method by procedures described by Greeson and others (1977). Sediment concentrations were determined at the Harrisburg, Pennsylvania Sediment Laboratory of the U.S. Geological Survey by methods described by Guy (1962).

A summary of sample preservation procedures is presented in table 1. The samples shipped to the Atlanta Central Laboratory generally arrived there within 48 hours from the time of sample collection.

Table 1.- Methods of sample preservation

<u>Constituent</u>	<u>Container type</u>	<u>Preservation</u>
Nitrogen species Phosphorus species Silica Sulfate Fluoride Chloride Alkalinity Solids residue Algal growth potential	Plastic bottle	Chilled to 4°C and kept dark
Seston ash weight Seston total	Plastic bottle	Mercuric chloride
Sodium Iron Calcium Magnesium Manganese Potassium	Plastic bottle	Acidified with HNO ₃ and chilled to 4°C
Total organic carbon Dissolved organic carbon	Glass bottle	Chilled to 4°C and kept dark
Suspended sediment	Glass bottle	None
Chlorophyll-a Pheophytin	Glass vial	Submersed in 90% acetone, chilled, and kept dark
Adenosine triphosphate Nitrifying bacteria	Plastic bag	Chilled to 4°C and kept dark

CHLOROPHYLL-A: COLLECTION AND ANALYSIS

by
Joan C. Woodward

INTRODUCTION

More than 15,000 samples were collected and analyzed for chlorophyll-a as part of the Potomac Estuary Study from April 25, 1979, through September 22, 1981. The large volume of samples and the need for analytical results within a few days of sample collection dictated the use of simple and streamlined methods of collection and analysis. The methods described are based on those of Strickland and Parsons (1972), but modified to minimize the chance for errors in field procedures and the time required for analysis. Analytical results, in micrograms per liter ($\mu\text{g}/\text{l}$), are reported as uncorrected chlorophyll-a, chlorophyll-a corrected for pheophytin (corrected chlorophyll-a), and pheophytin in appendix A of this report, in Blanchard and Hahl (1981), and in Blanchard et al (1982).

FIELD METHODS

Processing chlorophyll samples in the field involved three steps: water collection, filtration, and initiation of the extraction process. Samples were collected with a Niskin bottle, with an open bottle with vent tube or with a pumping sampler. Immediately after collection, a measured amount of water was drawn through a Whatman GF/C 4.25cm diameter glass fiber filter by a hand vacuum pump. Vacuum pressure was kept at less than 12.5 cm mercury and was maintained until the filter paper, although damp, had no excess water. The filter paper was put immediately into a vial containing 90 percent acetone, capped tightly, shaken, and stored on ice in a chest-type cooler. From the time the water was taken from the river until the processed sample was stored on ice was usually less than 1 minute. Care was taken to shade the entire operation from the sun.

Field equipment was light weight, hand operated, and unbreakable. The filter funnel was plastic with magnetic rings that clamped shut. A plastic vacuum flask and a small hand-operated pressure-vacuum pump with a gage were used (fig. 5). Graduated cylinders for measuring the water to be filtered were glass (for more accurate readings), but a plastic cylinder was carried as a back-up.

Wide-mouthed glass vials of 20 or 30 ml capacity with Poly-Seal caps were used as sample containers. The vials were wrapped in masking tape to keep out light and to prevent breakage. Before each trip, an automatic dispensing pipet was used to put 15.0 ml of 90 percent spectronic-grade acetone into each pre-labeled vial. The accuracy of the pipet was regularly checked and verified.

The amount of acetone in each vial could not be allowed to change because the concentration calculations were based on the 15.0 ml volume; therefore, loss of acetone from sealed vials was examined. For 2 weeks, 20 vials were carried in vehicles and boats at summer temperatures but shaded from direct

sunlight. When these vials were returned to the laboratory and the volume measured by a graduated cylinder, there was no measurable loss. Three vials were kept in the laboratory for 22 days at 24°C. They were weighed on day 0 and on day 22, and there was a weight loss of 0.0078 to 0.0096 g, or about 0.01 ml. In spite of these good results, the vials were treated conservatively. They remained refrigerated in the laboratory until taken into the field. If fieldwork involved prolonged exposure at summer temperatures, the vials were kept in a chest-type cooler before as well as after sampling. Once back at the laboratory, the samples were transferred to a refrigerator.

Strickland and Parsons recommend that a magnesium carbonate suspension be added to the sample as it is filtered to prevent it from becoming acid, but Holm-Hansen and Riemann (1978) found this step unnecessary. Based on the latter work and because the time between sample collection and initiation of the extraction process is very short in the PES method, no magnesium carbonate was added to the sample.

Most chlorophyll samples were collected by a pumping sampler. To determine if this system would affect the results, eight samples were collected and processed aboard an anchored boat in the tidal Potomac River at a time when analytical results showed uniform chlorophyll-a concentrations throughout the water column. Four samples were collected by a Niskin bottle and four by a pumping sampler. The arithmetic means (\bar{x}) and ranges of values for each collection method are listed below and indicate that chlorophyll-a and pheophytin are not altered as they passed through the pumping system.

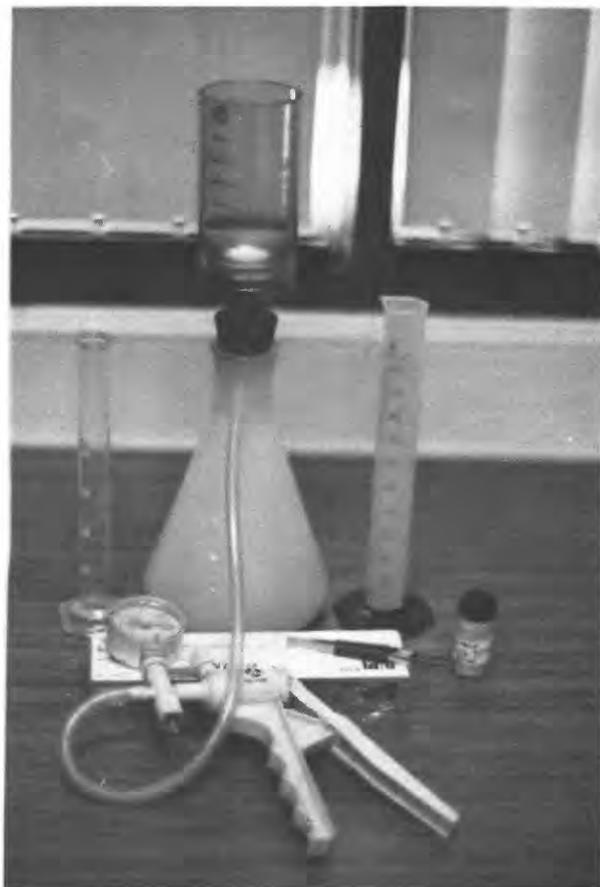


Figure 7. Chlorophyll-a filtering apparatus

		<u>Uncorrected</u> <u>chlorophyll-a</u>	<u>Corrected</u> <u>chlorophyll-a</u>	<u>Pheophytin</u>
		($\mu\text{g/l}$)	($\mu\text{g/l}$)	($\mu\text{g/l}$)
Niskin bottle	\bar{x} =	28.9	19.6	13.3
	range =	27.8 - 30.0	19.4 - 20.0	11.9 - 15.4
Pumping sampler	\bar{x} =	29.4	20.0	13.3
	range =	29.0 - 29.8	19.4 - 20.6	13.0 - 14.2

An additional test was done by collecting 28 pairs of samples from the estuarine zone by a vertically oriented Niskin bottle centered at 1 m and by a hose with its intake point at 1 m. The data support the results of the previous test. For each sample pair, the Niskin bottle result was subtracted from the pumping sampler result. The arithmetic mean and standard deviation (σ) of the differences are as follows: chlorophyll-a, $x = -0.2$, $\sigma = 5.5$; corrected chlorophyll-a, $x = -0.2$, $\sigma = 5.7$; and pheophytin, $x = -0.1$, $\sigma = 2.7$. These pairs of samples were collected at all seasons and at all times of day and represent corrected chlorophyll-a concentrations ranging from 10 to 130 $\mu\text{g}/\text{l}$. The samples were also collected when there were and were not strong chlorophyll-a gradients. These results indicate negligible effects of the hose and pumping system, particularly considering that the Niskin bottle sampled a vertical parcel of water 0.4 m either side of the hose intake point.

LABORATORY PROCEDURES

Chlorophyll extraction by the acetone was allowed to proceed for 20 hours in the field vial. After 20 hours, samples were removed from the refrigerator, placed in order, and covered so that they would not be exposed to light. One vial at a time was removed from under the cover, shaken vigorously, and poured from the field vial into a 30-ml plastic syringe. The syringe had a previously attached filter holder containing a 2.4cm diameter Whatman GF/C glass fiber filter. The sample volume was read on the graduations on the side of the syringe to verify that there was no major loss of acetone from the sample vial. Although not precise, this check did detect losses of 1 ml or more of acetone. In such an event, the sample was flagged as invalid. The sample was then filtered into a laboratory vial, the label transferred from field to laboratory vial, and the extracted sample replaced under cover until analyzed.

The PES sample preparation differs in two ways from that of Strickland and Parsons' (1972). First, acetone was not added to the samples to bring them up to a standard volume, but rather, the PES method based its calculation on the initial 15.0 ml. Not adding acetone saved time but introduced a dilution error, making all concentrations reported by the PES method 3 to 6 percent low. This is because from 0.5 to 1.0 ml of water was contained in the filter when it was introduced into the field vial, making the total volume slightly higher than 15 ml. Second, the extracted sample was filtered, not centrifuged, before analysis. The filtration technique results in a more uniformly clear extract than centrifugation and is much more rapid. It was found that two people, one preparing the sample for analysis and the other analyzing the sample, can complete 150 to 200 chlorophyll-a analyses per day without loss of precision.

During the analysis, all chlorophyll-a in the sample is converted to pheophytin (chlorophyll degradation product) by acidification. Hydrochloric acid (0.1 N) was added to bring the sample to 3×10^{-3} molarity (M) (Holm-Hansen and Riemann, 1978), a weaker acid solution than that recommended by Strickland and Parsons (1972).

From April through October 1979, samples were analyzed by the spectrophotometric method and equations of Strickland and Parsons (1972). The filtrate was introduced into a spectrophotometer with a 1-cm-path-length cell

and absorbances read for 90 percent acetone and chlorophyll-a at wave lengths of 750 and 665 nanometers (nm), respectively. The sample was then acidified as described above, and, after stabilization, pheophytin and 90 percent acetone were read at the two wave lengths, respectively. Standards were prepared from pure chlorophyll-a extract supplied by Sigma Chemical Company and were used on a daily basis to insure consistency of the spectrophotometer.

From October 1979 through September 1981 a Turner Fluorometer Model 10 replaced the spectrophotometer. Lamp and filter recommendations of the manufacturer (Turner Designs, 1978) for determination of chlorophyll-a were followed. Using standards prepared from chlorophyll-a extract, the fluorometer was calibrated so that chlorophyll-a and pheophytin could be read directly. Calibration was verified on a daily basis. The fluorometric equations of Strickland and Parsons (1972) for chlorophyll-a, corrected chlorophyll-a, and pheophytin were used. Use of the fluorometer expedited field operations because only 30 ml of water was filtered for the fluorometric method, whereas 250 ml of filtrate was required for the spectrophotometric method. No other changes were made to accommodate use of the fluorometer.

To compare spectrophotometer and fluorometer results, fifteen samples, ranging from fresh water to salt water, with corrected chlorophyll-a concentrations ranging from 5 to 45 $\mu\text{g}/\text{l}$, were collected and processed normally. In the laboratory, one aliquot of sample was analyzed on the spectrophotometer and a second on the fluorometer. For each pair of samples, the results from the fluorometer were subtracted from those of the spectrophotometer. Means and standard deviations of these differences were as follows: chlorophyll-a, $\bar{x} = -0.1 \mu\text{g}/\text{l}$, $\sigma = 1.2$; corrected chlorophyll-a, $\bar{x} = -0.2 \mu\text{g}/\text{l}$, $\sigma = 1.8$; pheophytin, $\bar{x} = 0.7 \mu\text{g}/\text{l}$, $\sigma = 3.3$. The samples analyzed by the spectrophotometer and those analyzed by the fluorometer are comparable.

PRECISION

Precision of the spectrophotometric and fluorometric methods was examined by taking aliquots from a constantly stirred container of river water and processing each separately but identically. Arithmetic means and standard deviations are shown in table 2. The results indicate acceptable

Table 2.- Precision of the PES chlorophyll-a method from field collection through laboratory analysis

Method	Number of aliquots	Chlorophyll-a uncorrected ($\mu\text{g}/\text{l}$)		Chlorophyll-a corrected ($\mu\text{g}/\text{l}$)		Pheophytin ($\mu\text{g}/\text{l}$)	
		\bar{x}	σ	\bar{x}	σ	\bar{x}	σ
Spectrophotometric	6	29.4	0.9	26.8	0.8	2.0	0.4
	5	28.8	0.4	19.8	0.8	12.8	1.5
	5	17.5	0.2	14.7	0.4	3.2	0.4
Fluorometric	3 ^a / 9	135.4	1.3	123.0	1.3	29.2	0.8
		29.2	0.4	21.3	0.3	16.9	0.6
	4	10.4	0.0	6.0	0.2	8.9	0.3

^a/ These three samples were not aliquots from one container but were collected individually over a 2-minute period.

precision with either instrument. To check analysis precision, the normal sampling routine involved periodic analysis of duplicate samples. Furthermore, vertical and longitudinal chlorophyll-a profiles were examined weekly to see if they were reasonable and if their behavior was consistent with other measurements, such as dissolved oxygen and conductance.

COMPARISON OF METHODS

The U.S. Geological Survey's standard method for chlorophyll-a analysis is that of high pressure liquid chromatography using dimethyl sulfoxide as the extractant (Greeson, 1979). Table 3 is a comparison of the results of the PES method, or modified Strickland and Parsons (1972) method, with those of the USGS's standard method, as analyzed in the Atlanta Central Water Quality Laboratory. The USGS standard method reports only chlorophyll-a and chlorophyll-b; it does not report uncorrected chlorophyll-a or pheophytin concentrations. Therefore, the comparisons shown in table 3 are PES results for chlorophyll-a corrected for pheophytin and USGS standard method results for chlorophyll-a separated from pheophytin; the concentrations should be equivalent.

The comparisons made while the spectrophotometer was in use (table 3) were separate samples, one collected by the Towson District Office (U.S. Geological Survey, 1980) and analyzed by the Atlanta Laboratory, and the other collected and analyzed by PES personnel. The comparisons made while the fluorometer was in use were done by pairs of aliquots taken from a stirred container. One aliquot was processed as per instructions and mailed to the Atlanta Central Water Quality Laboratory on dry ice, and the other was processed and analyzed by the PES method. Table 3 also shows the class or classes of phytoplankton that constituted at least 80 percent of the total population at each sampling location. The four major classes were diatoms (Bacillariophyta), green algae (Chlorophyta), blue-green algae (Cyanophyta), and single-celled, flagellated Cryptophyta. Results from both the USGS standard method and the PES method agree very well and were equally efficient in determining chlorophyll content of the organisms present.

In conclusion, the results of the PES chlorophyll method were reproducible; the precision was good; the hundreds of samples required for some field trips were processed in a few days, which allowed real-time planning input to data collection; the results agreed well with the USGS standard method result; and the corrected chlorophyll-a and pheophytin concentrations were logical and consistent when examined in relationship with other measurements.

Table 3.- Comparison of the PES method and the U.S. Geological Survey standard method of chlorophyll-a analysis

Location	Chlorophyll-a ($\mu\text{g}/\text{l}$)		Dominant class of phytoplankton present ^{a/}	Percent of total
	Standard method	PES method		
<u>Spectrophotometric</u>				
Chain Bridge	14.3 ^{b/}	15.6	Chlorophyta Bacillariophyta	78 22
Chain Bridge	48.5 ^{b/}	45.0	Chlorophyta	85
<u>Fluorometric</u>				
14th Street Bridge	7.5	4.5	Bacillariophyta Chlorophyta	59 34
Alexandria, Virginia channel	13.3	13.8	Bacillariophyta Chlorophyta Cryptophyta	38 28 25
Alexandria, Maryland channel, aliquot 1	17.6	26.9	Bacillariophyta	53
aliquot 2	20.5	26.3	Cryptophyta	26
aliquot 3	21.9	26.4		
Indian Head, shallows	35.9	37.8	Cyanophyta Bacillariophyta	59 22
Morgantown, surface	4.4	5.9	Cryptophyta Chlorophyta	59 26
Morgantown, bottom	3.8	3.0	Cryptophyta Bacillariophyta	69 15
Cobb Island	19.8	18.0	Cryptophyta Bacillariophyta	65 18
Piney Point	29.9	28.6	Bacillariophyta	83
Point Lookout	19.1	18.7	Bacillariophyta	89

^{a/} Phytoplankton identifications for Chain Bridge were obtained from the U.S. Geol. Survey (1980); the remainder were identified by Wapora, Inc.

^{b/} Chlorophyll-a samples were collected by the Towson, Maryland, District Office and are reported by the U.S. Geol. Survey (1980).

AIDS FOR USING THE DATA

Time.- From October 26, 1980, at 0200 hours through April 26, 1981, at 0200 hours, the times are Eastern Standard Time. For all other periods during the 1981 water year, 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 inch. 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.

Sample location.- All samples will appear in the data tables with a corresponding cross-section location, the distance from left bank looking downstream. This distance locates the specific sampling site along the cross-section line at which the water-quality sample was taken. Listed below are distances from the left bank that correspond to specific sampling sites; composite samples are indicated with a fictitious distance from left bank; i.e., 30,000, 40,000, or 50,000 feet.

<u>Station</u>	<u>Distance from left bank (ft)</u>	<u>Sampling site</u>
Potomac River at Chain Bridge at Washington, D.C.	1350 1240	Water-quality monitor intake Mid-channel surface sample
Potomac River at Alexandria, Va.	3700 30,000 40,000	Coast Guard dock Maryland channel composite ^{2/} Virginia channel composite ^{2/}
Potomac River at Quantico, Va.	6900	Special Services dock at Quantico Marine Base
Any station	50,000	Composite

Dissolved oxygen.- The dissolved oxygen values in this report 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 will appear as a dashed line.

Blue Plains Sewage Treatment Plant.- The data from these stations represent samples taken from the chlorinated effluent of the sewage treatment plant. The effluent is discharged into the river through two outfalls. The first outfall (outfall 001) is primary treated effluent; the second outfall (outfall 002) is secondary treated. All samples are 24-hour composite samples unless they appear with a time of day; these samples are instantaneous grab samples.

^{2/} The Alexandria, Va. cross-section has a channel on the Virginia side of the river separated by a tidal flat from the channel on the Maryland side of the river.

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

Parameter codes.- Each column heading in appendix A and appendix C has a number that is the parameter code 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>
E	Estimated value
<	Actual value is known to be less than the value shown
>	Actual value is known to be greater than the value shown
M	Presence of material verified but not qualified
N	Presumptive evidence of presence of material
ND	Material specifically analyzed for but not detected

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APPENDIX A-1.- Nutrient, sediment, and related data

01646580 - POTOMAC R AT CHAIN BRIDGE, AT WASH, DC
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	(00003)	SAMP- LOC- TION, CROSS SECTION (FT FM L BANK)	(00009)	SILICA, DIS- SOLVED (MG/LI AS SIO2)	(00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	(00613)	NITRO- GEN, NO2+N03 DIS- SOLVED (MG/LI AS N)	(00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	(00508)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	(00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	(00607)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	(00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	(00623)	
OCT																						
06...	1000	--	1350			3.8		.010		.97		.030					.30		.32		.33	
15...	1145	--	1350			.2		.010		.21		.030					.26		.41		.29	
23...	1035	--	1350			.8		.000		.59		.010					.31		.25		.32	
27...	1350	--	1350			--		--		--		--					--		.37		--	
NOV																						
06...	1500	--	1350			--		.000		.78		.060					.20		.25		.26	
10...	1610	--	1350			.2		.000		1.0		.020					.31		.42		.33	
17...	0940	--	1350			.2		.000		.76		.050					.14		.26		.19	
25...	0955	--	1350			.8		.010		.83		.000					.25		.39		.25	
DEC																						
01...	0950	--	1350			4.5		.010		1.3		.030					.40		.52		.43	
11...	1015	--	1350			2.9		.010		1.5		--					.00		.31		.32	
19...	1250	--	1350			.8		.010		1.1		.050					.18		.31		.23	
24...	1025	--	1350			.4		.010		.86		.060					.26		.26		.32	
30...	1100	--	1350			.2		.010		1.4		.050					.08		.24		.13	
JAN																						
06...	1035	--	1350			.1		.010		1.6		.000					.21		.18		.21	
15...	1530	--	1350			.1		.020		1.5		.320					.02		.52		.34	
21...	1040	--	1350			.2		.009		1.9		.010					--		.44		.30	
28...	1015	--	1350			.1		.010		1.7		.030					.22		.33		.25	
FEB																						
02...	1115	--	1350			.3		.020		1.6		.050					.28		.39		.33	
03...	1300	--	1350			.3		.020		1.8		.050					.10		.53		.15	
04...	1650	--	1350			.8		.020		1.5		.070					.44		.68		.51	
10...	1200	--	1350			2.4		.020		1.7		.130					.58		.95		.71	
11...	1300	--	1350			2.5		.020		1.6		.120					.72		.95		.84	
12...	1120	--	1350			3.2		.030		1.7		.120					.44		1.30		.56	
13...	0915	--	1350			--		.040		2.8		.700					1.1		2.60		1.8	
17...	0945	--	1350			3.5		.020		1.7		.120					.55		.87		.67	
23...	1040	--	1350			--		.030		.22		.190					.26		1.30		.45	
24...	1100	--	1350			--		.020		2.1		.120					.44		1.30		.56	
25...	1140	--	1350			--		.020		2.3		.090					.49		1.30		.58	
26...	1445	--	1350			--		.010		2.1		.070					.22		.99		.29	
27...	0900	--	1350			--		.010		1.9		.080					.33		.63		.41	
MAR																						
03...	1530	--	1350			6.5		.020		2.2		.080					.19		.34		.27	
10...	1110	--	1350			5.3		.010		2.0		.050					.10		.26		.15	
16...	1445	--	1350			.6		.010		1.7		<.010					--		.38		.19	
25...	0940	--	1350			.9		<.010		1.1		.010					.23		.32		.24	
APR																						
03...	1400	--	1350			.1		<.010		.44		.010					.26		.49		.27	

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

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEV DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHDRUS, TOTAL (MG/L AS P) (00665)	PHOS- PHDRUS, SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT 06...	1.3	.062	.050	--	--	47.2	13.0	52.9	--	--	--
15...	.50	.048	.014	--	--	3.5	6.4	6.6	--	--	--
23...	.91	.034	.023	--	--	--	--	--	--	--	9
27...	--	.062	--	--	--	--	--	--	--	--	--
NOV 06...	1.0	.073	.054	--	--	5.5	2.7	6.8	--	--	5
10...	1.3	.052	.043	--	--	3.6	4.3	5.6	--	--	4
17...	.95	.050	.028	--	--	1.7	2.4	2.9	--	--	3
25...	1.1	.175	.046	--	--	11.9	3.4	13.4	--	--	24
DEC 01...	1.7	.092	.082	--	--	7.4	5.5	9.9	--	--	18
11...	1.8	.035	.028	--	--	3.4	3.2	5.0	--	--	--
19...	1.3	.035	.015	--	--	2.3	1.0	2.8	--	--	5
24...	1.2	.040	.024	--	--	2.2	.5	2.4	--	--	3
30...	1.5	.045	.051	--	--	2.9	.9	2.9	--	--	1
JAN 06...	1.8	.048	.036	--	--	2.2	1.0	2.7	--	--	3
15...	1.8	.076	.070	--	--	1.2	.7	1.5	--	--	3
21...	2.2	.075	.062	--	--	1.5	.8	1.8	--	--	1
28...	2.0	.053	.044	--	--	2.2	1.0	2.7	--	--	2
FER 02...	1.9	.101	.054	--	--	5.0	2.7	6.3	--	--	52
03...	2.0	.120	.056	--	--	7.6	3.0	9.0	--	--	42
04...	2.0	.117	.062	--	--	10.7	4.1	12.6	--	--	22
10...	2.4	.189	.119	--	--	7.2	2.5	8.3	--	--	13
11...	2.4	.170	.105	--	--	8.2	3.7	9.9	--	--	--
12...	2.3	.240	.065	--	--	30.0	8.1	33.5	--	--	105
13...	4.6	.572	.172	--	--	24.6	13.1	30.6	--	--	--
17...	2.4	.189	.097	--	--	10.8	4.0	12.6	--	--	--
23...	.67	.327	.075	--	--	38.3	20.3	47.6	--	--	--
24...	2.7	.335	.047	--	--	38.0	23.4	48.9	--	--	233
25...	2.9	.331	.069	--	--	16.7	14.2	23.4	--	--	216
26...	2.4	.190	.046	--	--	10.7	10.8	15.8	--	--	117
27...	2.3	.163	.034	--	--	6.0	5.1	8.4	--	--	30
MAR 03...	2.5	.035	.044	--	--	2.5	2.4	3.7	--	--	15
10...	2.2	.072	.046	--	--	7.0	3.2	8.5	--	--	16
16...	1.9	.060	.029	--	--	--	--	--	--	--	12
25...	1.3	.055	.025	--	--	--	--	--	--	--	14
APR 03...	.71	.044	.025	--	--	56.7	7.2	59.3	--	--	21

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SILICA, DIS- SOLVED (MG/LI AS SI02)	(00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	(00613)	NITRO- GEN, NITRO- AMMONIA TOTAL (MG/L AS N)	(00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	(00608)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	(00605)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	(00607)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	(00625)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	(00623)
APR 08...	1305	--	1350			.1	.030	.56	--	--	.090	.090	.02	.70	.11								
14...	1515	--	1350	3.9	.020	3.9	.020	1.3	--	--	.140	.140	.31	1.80	.45								
15...	1800	--	1350	6.9	.010	6.9	.010	.11	--	--	.050	.050	.25	.75	.30								
16...	1520	--	1350	7.1	.010	7.1	.010	.13	--	--	.050	.050	--	.44	<.10								
20...	1130	--	1350	5.9	.010	5.9	.010	1.4	--	--	.060	.060	.13	.46	.19								
28...	1125	--	1350	4.3	<.010	4.3	<.010	1.1	--	--	.170	.170	.14	.62	.31								
MAY 07...	1350	--	1350	2.7	<.010	2.7	<.010	.62	--	--	.050	.050	.30	.54	.35								
14...	1330	--	1350	3.6	.500	3.6	.500	2.9	--	--	.700	.700	.00	.70	.69								
19...	0725	--	1350	5.2	.020	5.2	.020	.96	--	--	.060	.060	.41	.54	.47								
27...	1050	--	1350	--	<.010	--	<.010	.32	--	--	.030	.030	.26	.64	.29								
JUN 01...	1240	--	1350	4.7	.020	4.7	.020	.92	--	--	.090	.090	.58	.50	.67								
11...	1035	--	1350	7.6	.020	7.6	.020	.37	--	--	.080	.080	.42	.55	.50								
17...	1610	--	1350	8.1	--	8.1	--	--	--	--	--	--	--	--	--								
24...	1440	--	1350	6.6	.030	6.6	.030	1.6	--	--	.050	.050	.39	--	.44								
30...	1100	--	1350	5.8	<.010	5.8	<.010	1.1	--	--	<.010	<.010	--	.66	.48								
JUL 08...	1400	--	1350	4.7	.010	4.7	.010	.85	--	--	.020	.020	.47	.71	.49								
15...	0845	--	1350	5.1	<.010	5.1	<.010	1.0	--	--	.030	.030	.27	.41	.30								
20...	1350	--	1350	3.7	.010	3.7	.010	.64	--	--	<.010	<.010	--	.42	.19								
28...	1155	--	1350	3.2	<.010	3.2	<.010	.46	--	--	<.010	<.010	--	2.60	.49								
AUG 06...	1500	--	1350	2.6	.010	2.6	.010	.24	--	--	.070	.070	.57	.92	.64								
12...	0850	--	1350	2.8	.010	2.8	.010	.25	--	--	.060	.060	.41	.98	.47								
18...	1010	--	1350	1.9	<.010	1.9	<.010	.03	--	--	.060	.060	.56	.77	.62								
24...	1420	--	1350	1.0	<.010	1.0	<.010	.04	--	--	.060	.060	.28	.63	.34								
SEP 01...	1100	--	1350	1.6	.020	1.6	.020	.25	--	--	.090	.090	.44	.72	.53								
08...	1500	--	1350	4.1	.020	4.1	.020	1.2	--	--	.040	.040	.42	.32	.46								
18...	1520	--	1350	5.0	.010	5.0	.010	1.0	--	--	.070	.070	.33	.56	.40								
24...	1420	--	1350	5.0	<.010	5.0	<.010	.93	--	--	.050	.050	.20	.47	.25								

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DISS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLURO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
APR 08...	.67	.076	.022	--	--	66.7	10.8	71.0	--	--	--
14...	1.8	.323	.064	--	--	75.5	77.0	112	--	--	247
15...	.41	.176	.036	--	--	31.4	34.6	47.7	--	--	--
16...	--	.153	.022	--	--	27.3	20.0	36.7	--	--	192
20...	1.6	.098	.026	--	--	26.7	8.2	30.3	--	--	18
28...	1.4	.034	<.001	--	--	37.2	4.5	38.8	--	--	30
MAY 07...	.97	.066	.019	--	--	32.7	12.9	38.5	--	--	19
14...	3.6	.100	.036	--	--	28.0	11.1	33.0	--	--	31
19...	1.4	.103	.064	--	--	8.8	10.2	13.6	--	--	25
27...	.61	.100	.014	--	--	161	23.0	169	--	--	16
JUN 16...	1.6	.085	.048	--	--	26.4	20.5	36.0	--	--	45
11...	.87	.105	.049	--	--	3.7	6.5	6.8	--	--	42
17...	--	--	--	--	--	6.6	8.8	10.8	--	--	--
24...	2.0	.160	.083	--	--	--	--	--	--	--	57
30...	1.6	.075	.036	--	--	11.9	15.2	19.1	--	--	--
JUL 08...	1.3	.093	.038	--	--	46.2	19.9	55.2	--	--	30
15...	1.3	.088	.049	--	--	7.0	9.8	11.7	--	--	23
20...	.83	.043	.026	--	--	16.7	9.4	21.0	--	--	9
28...	.95	.052	.029	--	--	33.5	14.4	40.0	--	--	18
AUG 06...	.88	.315	.147	--	--	46.1	41.1	65.4	--	--	17
12...	.72	.130	.014	--	--	82.0	32.3	96.5	--	--	64
18...	.65	.107	.021	--	--	64.8	44.8	85.6	--	--	30
24...	.38	.049	.047	--	--	--	--	--	--	--	10
SEP 01...	.79	.078	.037	--	--	5.6	6.2	8.5	--	--	23
08...	1.7	.100	.112	--	--	3.0	5.0	5.4	--	--	24
18...	1.4	.100	.075	--	--	2.2	3.7	3.9	--	--	14
24...	1.2	.083	.066	--	--	1.9	2.9	3.2	--	--	12

385315077031800 - POTOMAC RIVER AT MEMORIAL BRIDGE

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	(000003)	SAMP- SECTION (FT FM BANK)	(000009)	SILICA, DIS- SOLVED	(00955)	NITRO- GEN, NITRITE DIS- SOLVED	(00613)	VITRO- GEN, N02+N03 DIS- SOLVED	(00631)	NITRO- GEN, AMMONIA TOTAL	(00610)	VITRO- GEN, AMMONIA DIS- SOLVED	(00608)	NITRO- GEN, ORGANIC TOTAL	(00605)	NITRO- GEN, ORGANIC DIS- SOLVED	(00607)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	(00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED	(00623)
OCT 02...	1200	--	50000			4.3		.010		.95		.060		.110		.32		.23		.38		.34	
JUL 08...	2350	--	50000			4.4		.010		.86		.050		<.010		.46		--		.51		.52	
20...	0930	--	50000			4.2		.010		.50		.060		.030		.62		.53		.68		.56	
20...	2140	--	50000			3.7		.010		.50		.010		<.010		.71		--		.72		.47	
21...	0815	--	50000			3.6		.020		.52		.020		<.010		.58		--		.60		.31	
21...	1945	--	50000			3.6		.020		.49		.040		<.010		.60		--		.64		.44	
22...	0840	--	50000			3.6		.020		.63		.030		.040		.66		.43		.69		.47	
AUG 06...	1050	--	50000			1.7		.070		.52		.110		.110		.77		.48		.88		.59	
24...	1945	--	50000			1.2		.020		.09		.140		.130		.60		.26		.74		.39	
25...	0930	--	50000			1.4		.020		.07		.140		.150		.68		.25		.82		.40	
25...	2000	--	50000			1.5		.020		.05		.150		.200		.56		.20		.71		.40	
26...	0915	--	50000			1.4		.010		.06		.180		.210		.42		.23		.60		.44	
26...	1900	--	50000			1.4		.020		.08		.120		.140		.52		.45		.64		.59	
SEP 04...	0915	--	50000			--		.030		.31		.120		.130		.63		.48		.75		.61	

APPENDIX A-1

385315077031800 - POTOMAC RIVER AT MEMORIAL BRIDGE --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEV DIS- SOLVED (MG/L AS V) (00602)	P-HOS- PHORUS, TOTAL (MG/L AS P) (00665)	P-HOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLURO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLOURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT 02....	1.3	.073	.055	3.2	--	3.4	2.0	4.3	--	--	2
JUL 08....	1.4	.087	.043	3.7	1.9	51.4	15.8	58.3	40	1.2	25
20....	1.1	.078	.023	5.1	2.4	38.4	12.3	43.8	--	5.9	14
20....	.97	.020	.045	6.8	2.0	48.5	8.6	51.9	--	.8	9
21....	.83	.078	.024	4.5	2.9	30.0	9.2	34.0	--	4.0	11
21....	.93	.077	.024	4.1	2.4	42.3	7.9	45.5	--	1.0	13
22....	1.1	.081	.033	3.1	1.6	20.3	8.2	24.0	--	.7	13
AUG 06....	1.1	.066	.022	4.6	3.3	38.3	15.8	45.4	--	--	5
24....	.48	.082	.018	3.8	4.2	20.0	10.3	24.7	--	--	13
25....	.47	.066	.019	3.4	3.0	13.6	11.0	18.8	--	--	12
25....	.45	.048	.022	4.0	3.1	16.1	9.9	20.6	--	.6	14
26....	.50	.055	.013	3.5	4.4	13.4	14.7	20.4	--	.1	8
26....	.67	.037	.029	4.1	4.1	23.8	6.6	26.6	--	1.1	6
SEP 04....	.92	.045	.027	--	--	14.0	5.8	16.6	--	--	--

APPENDIX A-1

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

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMP- LOC- ATION, CROSS SECTION (FT FM L-BANK)	(00009)	SILICA, DIS- SOLVED (MG/L)	AS SI02)	(00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L)	AS N)	(00613)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L)	AS N)	(00631)	NITRO- GEN, AMMONIA TOTAL (MG/L)	AS N)	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L)	AS N)	(00608)	NITRO- GEN, ORGANIC SOLVED (MG/L)	AS N)	(00605)	NITRO- GEN, ORGANIC SOLVED (MG/L)	AS N)	(00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L)	AS N)	(00625)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L)	AS N)	(00623)
OCT 21...	0725	--	1800			.9		.010	.55		.040	.010		.45		.36		.49		.37												
NOV 18...	1555	--	1800			.5		.000	.58		--	.050		--		.24		.26		.29												
DEC 16...	1700	--	1800			2.1		.010	1.3		.000	.020		.26		.19		.26		.21												
FEB 04...	0730	--	1800			.5		.010	1.5		.080	.030		.26		.23		.34		.26												
MAR 04...	1055	--	1800			16		.020	2.4		--	.080		--		.18		.46		.26												
APR 15...	0655	--	1800			6.0		<.010	1.1		--	.080		--		--		.58		<.10												
MAY 19...	0700	--	1800			6.4		.020	.98		--	.090		--		.45		.75		.54												
JUN 30...	0815	--	1800			6.5		.010	1.1		--	.020		--		.36		.70		.38												
JUL 15...	1810	--	1800			5.7		.020	1.1		<.010	.040		--		.17		.60		.21												
JUL 28...	1415	--	1800			2.6		<.010	.17		--	.030		--		.32		1.00		.35												
AUG 18...	1650	--	1800			3.6		.020	.51		.160	.050		.47		.44		.63		.49												
SEP 10...	0640	--	1800			4.2		.030	1.2		--	.090		--		.41		.54		.50												
SEP 22...	1050	--	1800			4.5		.010	1.1		--	.090		--		.38		.65		.47												

APPENDIX A-1

395223077022400 - POTOMAC RIVER AT 14TH STREET BR WASH DC --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DISELVED (MG/L AS N) (00602)	PHOS- PHOS- TOTAL (MG/L AS P) (00665)	PHOS- PHOS- DISELVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISELVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70998)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT 21....	.92	.054	.007	3.9	--	38.7	14.1	45.0	8.4	--	8
NOV 1R....	.87	.045	.034	4.0	--	--	--	--	4.9	--	4
DEC 16....	1.5	.059	.020	--	--	1.8	1.4	2.4	--	--	14
FEB 04....	1.8	.088	.055	--	--	2.5	1.4	3.1	--	--	19
MAR 04....	2.7	.104	.056	--	--	4.7	3.1	6.1	22	.2	11
APR 15....	--	.086	.036	--	--	28.5	41.6	48.3	33	--	160
MAY 19....	1.4	.090	.062	--	--	--	--	--	--	--	14
JUN 30....	1.5	.090	.050	--	--	--	--	--	29	--	19
JUL 15....	1.3	.071	.044	--	--	--	--	--	--	--	11
AUG 28....	.52	.060	.006	--	--	32.1	14.3	38.5	--	--	15
SEP 1R....	1.0	.058	.016	5.2	1.6	48.2	9.9	52.3	--	--	188
SEP 10....	1.7	.065	.083	--	--	--	--	--	--	--	12
SEP 22....	1.6	.096	.077	2.2	--	--	--	--	--	--	13

385039077012500 - POTOMAC RIVER AT GEISBORO POINT
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMP- LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SILICA, DIS- SOLVED (MG/L) AS SI02) (00955)	NITRO- GEN, VITRITE DIS- SOLVED (MG/L) AS N) (00613)	NITRO- GEN, NO2+N03 DIS- SOLVED (MG/L) AS N) (00631)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N) (00610)	VITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L) AS N) (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N) (00625)	VITRO- GEN,AM- MONIA + ORGANIC DIS- (MG/L) AS N) (00623)
OCT 02...	1230	--	50000	4.8	.110	.71	.830	.260	.67	.71	1.50	.97
OCT 21...	0755	--	375	2.5	.090	2.0	.830	.820	.37	.14	1.20	.96
NOV 18...	1525	--	375	.7	.020	1.3	.220	.240	.35	.37	.57	.61
DEC 16...	1640	--	50000	--	.010	1.7	.130	.140	.23	.20	.36	.34
FER 04...	0840	--	375	1.0	.020	2.0	.300	.310	.27	.27	.57	.58
MAR 04...	1030	--	375	5.4	.020	1.9	.110	.110	.22	.16	.33	.27
MAR 25...	1430	--	50000	--	--	--	.030	--	.23	--	.26	--
MAY 19...	0725	--	375	5.2	.020	1.2	--	.250	--	.45	.89	.70
JUN 30...	0845	--	375	5.9	.030	1.5	--	.120	--	.50	.75	.62
JUL 08...	2255	--	50000	4.4	.020	1.1	.030	<.010	.58	--	.61	.42
JUL 20...	0855	--	50000	4.9	.060	1.9	.360	.210	.94	.59	1.30	.80
JUL 20...	2045	--	50000	4.3	.050	1.4	.130	.080	.69	.27	.82	.35
JUL 21...	0745	--	50000	4.0	.040	.66	.030	.030	.71	.37	.74	.40
JUL 21...	1845	--	50000	3.8	.030	.62	.040	.020	.33	.25	.37	.27
JUL 22...	0815	--	50000	3.4	.040	.62	.080	.030	.65	.54	.73	.57
JUL 28...	1330	--	375	2.7	.070	.46	--	.150	--	.51	.72	.66
AUG 06...	1115	--	50000	2.0	.070	.77	.090	.070	1.3	.38	1.40	.45
AUG 18...	1620	--	375	2.3	.120	.72	.110	.120	.51	.38	.62	.50
AUG 24...	1915	--	50000	2.3	.120	1.4	.180	.160	.54	.49	.72	.65
AUG 25...	0900	--	50000	2.1	.100	1.1	.190	.170	.75	.61	.94	.78
AUG 25...	1925	--	50000	2.0	.150	1.6	.220	.230	.68	.56	.90	.79
AUG 26...	0845	--	50000	2.0	.130	1.3	.250	.300	.95	.38	1.20	.68
AUG 26...	1825	--	50000	2.2	.180	1.8	.260	.300	.84	.68	1.10	.98

APPENDIX A-1

385039077012600 - POTOMAC RIVER AT GEISBORO POINT --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00566)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDEd (MG/L) (80154)
OCT 02...	1.7	.118	.034	6.4	--	14.5	11.0	19.7	---	--	25
OCT 21...	3.0	.128	.047	4.4	--	30.0	9.8	34.3	25	--	9
NOV 18...	1.9	.108	.041	--	--	18.7	5.6	21.1	--	--	15
DEC 16...	2.0	.082	.015	--	--	2.7	2.8	4.0	---	--	5
FEB 04...	2.6	.113	.092	--	--	3.2	1.1	3.7	---	--	10
MAR 04...	2.2	.073	.043	--	--	3.9	2.6	5.1	29	.7	10
MAR 25...	--	.053	--	--	--	--	--	--	--	--	--
MAY 19...	1.9	.185	.098	--	--	--	--	--	--	--	21
JUN 30...	2.1	.110	.064	--	--	--	--	--	--	--	21
JUL 08...	1.5	.083	.036	3.2	2.7	34.4	10.0	38.8	46	.7	22
JUL 20...	2.7	.149	.052	6.3	2.9	37.1	14.8	43.8	---	9.2	21
JUL 20...	1.8	.102	.026	7.2	2.8	55.0	14.0	61.0	---	2.2	20
JUL 21...	1.1	.081	.056	3.7	3.0	38.0	17.6	46.0	---	2.7	15
JUL 21...	.89	.030	.022	5.3	1.6	45.9	13.0	51.6	---	.8	17
JUL 22...	1.2	.088	.016	4.8	3.2	34.0	21.1	43.8	---	1.0	19
JUL 28...	1.1	.072	.033	--	--	31.7	14.2	38.1	---	--	15
AUG 06...	1.2	.201	.033	4.4	3.4	59.5	18.8	67.8	---	4.1	20
AUG 18...	1.2	.094	.023	4.8	1.5	45.9	17.1	53.6	12	--	16
AUG 24...	2.1	.108	.034	4.3	3.7	48.0	12.8	53.5	---	--	10
AUG 25...	1.9	.105	.031	4.4	6.5	34.3	19.2	43.1	---	--	17
AUG 25...	2.4	.117	.052	4.5	3.7	--	--	--	---	5.6	12
AUG 26...	2.0	.131	.041	5.3	4.4	40.8	15.7	47.8	---	4.9	12
AUG 26...	2.8	.143	.069	4.3	3.8	51.2	13.2	57.0	---	12	9

384852077020500 - POTOMAC RIVER AT MARBURY POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SAMP- LING DEPTH (FT)	TIME	SAMP- LING SECTION (FT FM L BANK)	SILICA, DIS- SOLVED (MG/LI AS SI02)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS V)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/LI AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/LI AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS V)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)
OCT													
02...	--	1315	50000	5.1	.330	1.6	1.50	1.50	.50	.80	2.00	2.3	2.3
21...	--	0825	50000	3.0	.130	2.3	1.20	1.20	.50	.00	1.70	1.2	1.2
NOV													
18...	--	1515	50000	1.0	.030	1.9	.460	.460	.50	.33	.96	.79	.79
DEC													
16...	--	1550	50000	3.4	.020	1.7	.160	.150	.25	.19	.41	.34	.34
FEB													
04...	--	0855	1200	.8	.020	1.9	.280	.280	.23	.06	.51	.34	.34
MAR													
04...	--	1015	1200	6.5	.020	2.0	.090	.110	.32	.22	.41	.33	.33
25...	--	1400	50000	--	--	--	.140	--	.49	--	.63	--	--
JUL													
08...	--	2220	50000	4.8	.040	1.7	.130	.040	.64	.42	.77	.46	.46
20...	--	0925	50000	4.8	.050	1.6	.550	.440	.95	.66	1.50	1.1	1.1
20...	--	2000	50000	4.8	.070	1.9	.430	.320	.87	.36	1.30	.68	.68
21...	--	0730	50000	4.3	.060	1.7	.190	.190	.73	.41	.92	.60	.60
21...	--	1800	50000	3.8	.050	.98	.070	.090	.82	.45	.89	.54	.54
22...	--	0750	50000	3.8	.050	1.2	.170	.140	.93	.49	1.10	.63	.63
AUG													
06...	--	1155	50000	2.3	.100	1.4	.220	.220	1.1	.49	1.30	.71	.71
18...	--	1600	50000	2.4	.140	.99	.200	.130	.57	.38	.77	.51	.51
24...	--	1830	50000	2.0	.180	1.7	.290	.240	.58	.51	.87	.75	.75
25...	--	0820	50000	2.3	.170	1.7	.320	.280	.68	.31	1.00	.59	.59
25...	--	1900	50000	1.8	.180	1.8	.270	.310	1.0	.20	1.30	.51	.51
26...	--	0815	50000	1.6	.200	1.9	.270	.330	1.0	.33	1.30	.66	.66
26...	--	1800	50000	1.4	.200	2.0	.170	.210	.79	.43	.96	.64	.64
SEP													
04...	--	0945	50000	--	.230	1.8	.370	.370	.59	.31	.96	.68	.68

APPENDIX A-1

384852077020500 - POTOMAC RIVER AT MARBURY POINT --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L) AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L) AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L) AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L) AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L) AS C) (00681)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLURO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT 02...	3.9	.126	.057	--	--	--	--	--	--	--	19
02...	3.5	.113	.052	4.5	--	--	--	--	--	--	11
NOV 18...	2.7	.157	.069	5.8	--	16.2	6.0	18.9	--	--	16
DEC 16...	2.0	.107	.053	--	--	2.8	3.6	4.5	--	--	14
FEB 04...	2.2	.208	.073	--	--	3.3	1.5	4.0	--	--	6
MAR 04...	2.3	.102	.046	--	--	5.7	4.2	7.6	--	.5	31
04...	--	.117	--	--	--	--	--	--	--	--	--
JUL 08...	2.2	.129	.072	5.5	2.6	25.6	7.9	29.0	--	.4	31
08...	2.7	.164	.052	6.2	2.9	33.6	19.4	42.5	--	8.5	29
20...	2.6	.091	.031	8.0	2.9	50.3	12.5	55.6	--	6.5	14
20...	2.3	.130	.061	4.3	5.0	33.6	16.9	41.3	--	2.4	17
21...	1.5	.119	.044	5.1	2.4	52.0	17.0	59.5	--	.9	18
22...	1.8	.142	.038	4.9	2.4	36.4	19.8	45.4	--	4.4	21
AUG 06...	2.1	.142	.071	4.5	3.7	58.3	24.0	69.1	--	2.5	25
06...	1.5	.130	.027	2.7	1.6	46.6	19.1	55.2	--	--	24
18...	2.5	.136	.041	5.1	4.4	50.4	16.5	57.7	--	--	22
24...	2.3	.136	.053	6.9	3.5	38.4	18.5	46.8	--	--	21
25...	2.3	.114	.049	4.9	3.4	61.5	14.2	67.5	--	8.8	18
25...	2.6	.128	.037	1.8	3.9	54.7	17.6	62.4	--	7.4	16
26...	2.6	.128	.035	4.4	4.3	73.0	10.8	77.2	--	11	18
SEP 04...	2.5	.139	.073	--	--	35.4	14.1	41.9	--	--	--

01652590 - POTOMAC R AT ALEXANDRIA, VA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SILICA, DIS- SOLVED (MG/L) AS SI02)	(00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N)	(00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N)	(00631)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N)	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N)	(00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N)	(00607)	NITRO- GEN, AM- MONIA ORGANIC TOTAL (MG/L) AS N)	(00625)	NITRO- GEN, AM- MONIA ORGANIC DIS- SOLVED (MG/L) AS N)	(00623)	
OCT																						
02...	1335	--	40000		5.4	.220	1.4	2.10	1.60	.50	.00	2.60	1.4									
02...	1400	--	30000		5.1	.260	1.7	1.80	1.90	.00	.10	1.80	2.0									
07...	1140	--	3400		5.6	.300	2.3	--	1.50	--	.50	2.40	2.0									
15...	0940	--	40000		4.6	.180	2.2	--	1.40	--	.40	1.60	1.8									
15...	0955	--	30000		5.1	.220	2.9	--	2.20	--	.20	2.40	2.4									
21...	0900	--	40000		3.4	.140	2.4	1.50	1.50	.40	.10	1.90	1.6									
21...	0930	--	600		3.4	.150	2.9	1.60	1.60	.50	.10	2.10	1.7									
27...	1115	--	30000		--	.100	2.8	--	.990	--	.41	1.70	1.4									
NOV																						
06...	1100	--	3400		--	.040	2.1	--	.600	--	.40	.91	1.0									
06...	1130	--	600		--	.060	4.8	--	.900	--	.40	1.50	1.3									
10...	1405	--	600		3.1	.050	4.9	--	.850	--	.35	1.30	1.2									
10...	1500	--	3400		1.8	.040	2.1	--	.470	--	.38	1.10	.85									
18...	1440	--	40000		1.4	.050	2.8	.580	.610	.62	.27	1.20	.88									
25...	1355	--	3400		.9	.020	1.4	--	.160	--	.35	.54	.51									
25...	1405	--	600		1.7	.030	3.1	--	.480	--	.00	1.20	.29									
DEC																						
02...	1410	--	3400		3.4	.020	2.1	--	.250	--	.38	.76	.63									
02...	1420	--	600		3.2	.020	2.5	--	.240	--	.32	.76	.56									
08...	1145	--	3400		4.7	.020	2.1	--	.190	--	.19	.50	.38									
08...	1200	--	600		5.2	.020	3.7	--	.410	--	.24	.86	.65									
16...	1455	--	30000		4.7	.020	5.8	.370	.430	.32	.19	.69	.62									
16...	1530	--	40000		4.2	.020	2.6	.410	.400	.36	.21	.77	.61									
24...	1330	--	600		3.5	.030	3.3	--	.890	--	.00	1.20	.87									
24...	1345	--	3400		2.6	.020	2.2	--	.500	--	.14	.60	.64									
29...	1015	--	3400		1.9	.010	1.9	--	.340	--	.01	.68	.35									
29...	1030	--	600		3.1	.020	3.1	--	.850	--	.00	1.10	.85									
JAN																						
07...	1235	--	3400		1.5	.020	2.1	--	.560	--	.23	.98	.79									
15...	1315	--	3400		1.9	.010	1.9	--	.100	--	1.1	2.00	1.2									
15...	1320	--	600		2.4	.030	2.5	--	1.30	--	.50	2.70	1.8									
13...	1335	--	600		2.6	.040	4.1	--	2.10	--	.00	2.30	2.1									
23...	1355	--	3400		1.3	.020	2.4	--	.860	--	.24	1.10	1.1									
28...	1200	--	600		2.2	.050	3.6	--	1.60	--	.10	2.10	1.7									
28...	1210	--	3400		1.6	.030	2.6	--	1.30	--	.70	1.40	2.0									
FEB																						
02...	1420	--	600		1.8	.030	3.9	--	1.50	--	.20	1.80	1.7									
02...	1425	--	3400		1.4	.020	3.0	--	.840	--	.26	1.20	1.1									
04...	0920	--	3400		1.0	.020	2.3	.560	.530	.42	.30	.98	.83									
04...	0950	--	600		1.7	.030	3.2	1.00	.980	.70	.52	1.70	1.5									

01652590 -- POTOMAC R AT ALEXANDRIA, VA. --Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN- DIS- SOLVED (MG/L) AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L) AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L) AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L) AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L) AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD UNCORR. (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
JCT											
02...	2.8	.125	.047	6.2	--	8.0	6.2	10.9	--	--	17
02...	3.7	.115	.052	4.6	--	8.4	6.4	11.4	--	--	18
07...	4.3	.117	.070	--	--	--	--	--	--	--	--
15...	4.0	.095	.046	--	--	10.0	4.9	12.2	--	--	16
15...	5.3	.137	.058	--	--	11.6	5.6	14.1	--	--	18
21...	4.0	.103	.043	4.5	--	--	--	--	27	--	20
21...	4.6	.134	.043	4.8	--	26.5	8.5	30.2	31	--	23
27...	4.2	.156	.074	--	--	--	--	--	--	--	20
NOV											
06...	3.1	.142	.084	--	--	--	--	--	--	--	23
06...	6.1	.165	.101	--	--	11.4	4.6	13.5	--	--	14
10...	6.1	.228	.139	--	--	15.1	4.8	17.2	--	--	17
10...	3.0	.146	.086	--	--	15.0	4.8	17.1	--	--	20
18...	3.7	.164	.076	5.6	--	9.1	8.2	12.9	--	--	33
25...	1.9	.173	.068	--	--	6.5	6.7	9.6	--	--	33
25...	3.4	.127	.089	--	--	6.1	3.9	7.9	--	--	25
DEC											
02...	2.7	.179	.058	--	--	8.9	6.9	12.1	--	--	26
02...	3.1	.134	.060	--	--	13.2	5.6	15.7	--	--	29
08...	2.5	.133	.055	--	--	5.0	4.4	7.0	--	--	41
08...	4.4	.152	.119	--	--	6.4	4.1	8.3	--	--	46
16...	6.4	.129	.069	--	--	3.7	3.6	5.4	--	--	17
16...	3.2	.131	.031	--	--	2.5	5.0	4.9	--	--	21
24...	4.2	.196	.093	--	--	1.2	1.4	1.9	--	--	12
24...	2.8	.141	.073	--	--	3.5	4.3	5.5	--	--	24
29...	2.3	.122	.059	--	--	3.0	2.5	4.2	--	--	17
29...	4.0	.155	.053	--	--	1.9	2.0	2.8	--	--	17
JAN											
07...	2.9	.128	.075	--	--	2.6	2.2	3.6	--	--	--
15...	3.1	.146	.086	--	--	2.2	1.1	2.7	--	--	8
15...	4.3	.166	.105	--	--	1.7	.6	2.0	--	--	5
23...	6.2	.186	.108	--	--	1.7	1.1	2.2	--	--	10
23...	3.5	.172	.095	--	--	2.3	2.3	3.4	--	--	18
28...	5.3	.172	.089	--	--	2.8	1.3	3.4	--	--	7
28...	4.6	.142	.073	--	--	4.2	1.9	5.1	--	--	10
FEB											
02...	5.6	.194	.089	--	--	4.4	1.2	4.9	--	--	26
02...	4.1	.195	.098	--	--	4.0	1.7	4.8	--	--	27
04...	3.1	.162	.087	--	--	4.3	1.6	5.0	--	--	9
04...	4.7	.204	.125	--	--	4.5	1.1	4.9	--	--	12

01652590

--Cont.

-- POTOMAC R AT ALEXANDRIA, VA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LCC- ATION, CROSS SECTION (FT FM L' BANK)	(00009)	SILICA, DIS- SOLVED (MG/L) AS SI02)	(00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N)	(00613)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N)	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N)	(00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N)	(00607)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N)	(00625)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N)	(00623)	
FEB																				
11...	1120	--		500		1.9		.030				.480		.62		1.40		1.1		
11...	1150	--		3400		1.7		.020				.500		.60		1.40		1.1		
12...	1445	--		3400		2.0		.030				.160		.79		1.00		.95		
17...	1140	--		600		4.2		.020				.470		.63		1.30		1.1		
17...	1200	--		3400		3.7		.020				.240		.74		.93		.98		
23...	1225	--		600		--		.040				.420		.41		1.40		.83		
23...	1300	--		3400		--		.040				.360		.46		1.10		.82		
24...	1315	--		600		--		.040				.800		.50		1.80		1.3		
24...	1400	--		3400		--		.030				.160		.37		.64		.53		
25...	1555	--		600		--		.020				.430		.49		1.50		.92		
25...	1640	--		3400		--		.030				.110		.34		1.00		.45		
26...	1545	--		600		--		.020				.620		.35		1.30		.97		
26...	1600	--		3400		--		.020				.090		.38		.87		.47		
27...	1040	--		600		--		.050				1.70		.00		1.00		1.1		
27...	1050	--		3400		--		.020				.110		.43		.59		.54		
MAR																				
04...	0945	--		600		7.5		.020		.670		.670		.28		.92		.95		
04...	1000	--		3400		6.5		.020		.120		.140		.24		.47		.38		
11...	1015	--		600		6.5		.020				.290		.17		.66		.46		
11...	1030	--		3400		6.1		.020				.270		.17		.53		.44		
18...	0705	--		3400		5.7		.020				.280		.14		.70		.42		
18...	0725	--		600		6.4		.020				.370		.33		.64		.70		
25...	1530	--		3400		2.6		.010				.100		.24		.65		.34		
25...	1550	--		600		4.9		.030				.700		.24		1.00		.94		
31...	1340	--		600		2.5		.030				.640		.14		1.20		.78		
31...	1350	--		3400		1.5		.030				.480		.21		.75		.69		
APR																				
06...	1245	--		500		.8		.030				.710		.79		1.80		1.5		
06...	1320	--		3400		.1		.020				.290		.42		1.40		.71		
14...	2050	--		600		1.9		.010				.040		.67		.75		.71		
14...	2115	--		3400		3.0		.020				.050		.28		.97		.33		
15...	0745	--		3400		3.9		.020				.050		.27		.30		.32		
15...	0815	--		600		3.2		.030				.190		.54		1.20		.73		
16...	1140	--		600		6.6		.020				.200		.01		.77		.21		
17...	1130	--		3400		7.0		.010				.120		.31		1.10		.43		
17...	1200	--		600		6.5		.020				.470		.36		1.40		.83		
21...	1245	--		3400		6.8		.020				.140		.57		1.67		.71		
21...	1310	--		600		7.2		.020				.500		.70		1.20		1.2		
28...	1235	--		3400		4.4		.020				.240		.29		.85		.53		
28...	1320	--		600		4.8		.030				.590		.27		1.30		.86		

APPENDIX A-1

01652590 -- POTOMAC R AT ALEXANDRIA, VA. --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEV DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DISS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISS- SOLVED (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)	PHEOPHY- TIN A FLURO- METRIC METHOD (UG/L)	ALGAL GROWTH POTEN- TIAL (MG/L)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L)	SEDI- MENT, SUS- PENDE (MG/L)
	(00602)	(00655)	(00666)	(00680)	(00681)	(32209)	(32213)	(32217)	(70988)	(70998)	(80154)	
11...	3.7	.195	.101	--	--	6.0	4.7	8.2	--	--	35	
11...	3.6	.210	.103	--	--	7.8	4.5	9.9	--	--	32	
12...	2.6	.189	.098	--	--	7.2	3.7	8.8	--	--	23	
17...	5.1	.163	.117	--	--	2.4	2.3	3.5	--	--	21	
17...	3.2	.205	.118	--	--	4.4	3.6	6.0	--	--	25	
23...	3.0	.210	.109	--	--	18.5	7.4	21.8	--	--	38	
23...	3.3	.223	.101	--	--	19.1	9.2	23.2	--	--	63	
24...	4.0	.259	.140	--	--	7.7	4.9	10.0	--	--	162	
24...	2.4	.211	.059	--	--	19.8	12.5	25.6	--	--	89	
25...	3.9	.422	.063	--	--	19.2	12.2	24.8	--	--	139	
25...	2.7	.350	.059	--	--	20.5	14.5	27.2	--	--	180	
26...	4.7	.309	.071	--	--	6.9	6.8	10.1	--	--	87	
26...	2.7	.185	.058	--	--	12.4	10.5	17.3	--	--	13	
27...	5.3	.223	.079	--	--	4.1	4.1	6.1	--	--	--	
27...	2.7	.149	.051	--	--	--	--	--	--	--	--	
MAR												
04...	6.1	.225	.093	--	--	1.7	2.4	2.8	38	.3	17	
04...	2.4	.108	.049	--	--	4.9	4.8	7.2	22	.0	34	
11...	3.8	.166	.031	--	--	5.1	2.7	6.4	--	--	34	
11...	2.7	.145	.017	--	--	8.7	6.4	11.7	--	--	22	
18...	3.0	.121	.050	--	--	--	--	--	--	--	17	
18...	4.1	.141	.055	--	--	--	--	--	--	--	26	
25...	1.7	.104	.048	--	--	18.6	5.1	20.8	--	--	12	
25...	5.1	.307	.225	--	--	8.8	2.3	9.8	--	--	99	
31...	3.6	.204	.116	--	--	23.2	5.7	25.6	--	--	14	
31...	2.5	.234	.204	--	--	23.3	9.2	27.4	--	--	22	
APR												
06...	3.2	.190	.053	--	--	35.1	16.2	42.4	--	--	40	
06...	1.4	.151	.040	--	--	54.1	26.5	66.2	--	--	55	
14...	.84	.155	.095	--	--	27.0	24.5	38.5	--	--	36	
14...	.85	.122	.055	--	--	59.0	33.7	74.5	--	--	105	
15...	.75	.087	.046	--	--	26.5	25.8	38.6	43	--	70	
15...	2.2	.138	.092	--	--	36.9	22.5	47.3	50	--	34	
16...	2.1	.138	.039	--	--	--	--	--	--	--	105	
17...	1.8	.184	.037	--	--	--	--	--	--	--	110	
17...	3.6	.221	.080	--	--	--	--	--	--	--	48	
21...	2.1	.083	.044	--	--	--	--	--	--	--	46	
21...	4.3	.194	.087	--	--	16.8	5.0	19.0	--	--	23	
28...	1.7	.090	<.001	--	--	43.0	18.8	51.5	--	--	44	
28...	4.3	.170	.037	--	--	72.5	12.5	77.5	--	--	22	

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION/ (FT FM L BANK)	(00009)	SILICA, DIS- SOLVED (MG/L) AS SID2)	(00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N)	(00613)	NITRO- GEN, NITRO- AMMONIA DIS- SOLVED (MG/L) AS N)	(00631)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N)	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N)	(00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N)	(00607)	NITRO- GEN, ORGANIC TOTAL (MG/L) AS N)	(00625)	NITRO- GEN, AM- MONIA ORGANIC DIS- SOLVED (MG/L) AS N)	(00623)	
MAY																						
04...	0810	--	3400			2.5	.030			1.2				.430			.36	.99		.79		
04...	0825	--	600			2.5	.020			1.3				.420			.23	1.30		.65		
12...	0915	--	600			2.1	.030			4.3				1.10			.20	1.60		1.3		
12...	0935	--	3400			3.3	.020			.93				.340			.45	1.80		.79		
19...	0750	--	3400			5.5	.020			1.2				.360			.46	.99		.82		
19...	0830	--	600			5.4	.030			2.0				.480			.52	.98		1.0		
26...	1045	--	3400			5.9	.020			.90				.210			.00	.63		.15		
26...	1115	--	600			5.7	.020			2.2				.420			.21	1.20		.63		
JUN																						
01...	1830	--	600			1.4	.030			1.4				.220			.51	.80		.73		
01...	1850	--	3400			.8	.020			.96				.220			.65	.89		.87		
11...	1330	--	3400			7.5	.020			1.1				.110			.31	.50		.42		
11...	1345	--	500			7.3	.040			1.0				.410			.47	1.40		.88		
17...	1345	--	600			8.0	--			--				--			--	--		--		
17...	1410	--	3400			7.6	--			--				--			--	--		--		
24...	1240	--	600			6.3	.050			2.0				.290			.57	.84		.86		
24...	1300	--	3400			6.4	.030			1.3				.320			.47	.72		.79		
30...	0925	--	3400			5.3	.050			1.6				.340			.57	.84		.91		
30...	1010	--	600			5.8	.080			3.1				.410			.49	1.10		.90		
JUL																						
08...	2040	--	30000			5.2	.090			2.5			.220	.230			.44	.94		.67		
08...	2120	--	40000			4.6	.020			1.2			.050	<.010			--	.39		.48		
15...	1730	--	600			5.6	.070			2.1				.210			.25	1.10		.46		
15...	1740	--	3400			5.7	.060			1.7				.340			.30	.79		.64		
20...	0730	--	30000			4.8	.070			2.5			.300	.190			.91	1.30		.64		
20...	0750	--	40000			4.9	.060			1.7			.520	.460			.74	1.30		1.1		
20...	1820	--	30000			4.7	.070			2.0			.310	.260			.28	1.50		1.2		
20...	1900	--	40000			4.7	.060			1.7			.370	.230			.34	1.40		.49		
21...	0630	--	30000			4.6	.080			2.3			.430	.390			.53	1.20		.57		
21...	0650	--	40000			4.3	.060			1.6			.290	.300			.56	1.40		.92		
21...	1700	--	30000			4.5	.080			2.7			.310	.280			.56	.75		.84		
21...	1720	--	40000			4.2	.070			2.7			.290	.300			.55	1.40		.85		
22...	0645	--	30000			4.4	.080			2.3			.400	.240			.63	1.40		.87		
22...	0720	--	40000			3.9	.060			1.3			.210	.420			.40	1.60		1.1		
28...	1205	--	600			3.0	.130			2.5			--	.180			.40	1.10		.58		
28...	1225	--	3400			3.0	.080			1.1			--	.470			.63	1.40		1.1		
AUG																						
06...	1245	--	40000			1.3	.130			1.4			.170	.150			.44	1.30		.59		
06...	1315	--	30000			1.5	.140			1.9			.090	.110			.55	1.30		.66		
18...	1500	--	600			3.2	.240			2.2			.090	.090			.30	1.00		.39		

APPENDIX A-1

01652590 -- POTOMAC R AT ALEXANDRIA, VA. --- Cont.
 WATER QUALITY DATA; WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLOURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
MAY											
04....	2.0	.139	.043	--	--	20.3	31.0	35.1	--	--	46
04....	2.0	.134	.047	--	--	26.3	23.1	37.2	--	--	31
12....	5.6	.545	.200	--	--	--	--	--	--	--	23
12....	1.7	.143	.057	--	--	--	--	--	--	--	27
19....	2.0	.154	.080	--	--	--	--	--	42	--	33
19....	3.0	.246	.171	--	--	--	--	--	50	--	23
26....	1.1	.112	.059	--	--	--	--	--	--	--	19
26....	2.8	.194	.102	--	--	--	--	--	--	--	15
JUN											
01....	2.1	.143	.062	--	--	--	--	--	--	--	17
01....	1.8	.127	.055	--	--	--	--	--	--	--	29
11....	1.5	.086	.038	--	--	--	--	--	--	--	14
11....	1.9	.181	.058	--	--	--	--	--	--	--	26
17....	--	--	--	--	--	--	--	--	--	--	--
17....	--	--	--	--	--	--	--	--	--	--	--
24....	2.9	.146	.085	--	--	18.1	6.4	20.9	--	--	23
24....	2.1	.092	.057	--	--	4.2	5.9	7.0	--	--	26
30....	2.5	.116	.062	--	--	--	--	--	20	--	25
30....	4.0	.171	.090	--	--	--	--	--	--	--	17
JUL											
08....	3.2	.182	.087	8.0	4.4	46.0	4.5	47.5	65	2.1	--
08....	1.7	.096	.042	3.6	3.9	23.6	11.2	28.7	26	0.0	20
15....	2.6	.121	.054	--	--	--	--	--	--	--	12
15....	2.3	.110	.066	--	--	--	--	--	--	--	30
20....	3.6	.157	.040	5.3	3.0	--	--	--	--	7.7	21
20....	2.9	.161	.049	5.6	3.0	38.6	21.8	48.6	--	9.7	36
20....	2.5	.130	.036	8.8	3.2	--	--	--	--	--	53
20....	2.3	.104	.032	4.6	2.8	58.6	14.4	64.8	--	4.8	32
21....	3.2	.165	.062	5.0	6.0	39.3	15.2	46.1	--	4.5	20
21....	2.4	.104	.104	4.6	3.2	33.2	16.9	40.9	--	4.2	16
21....	3.6	.162	.067	4.3	3.5	54.0	11.9	59.0	--	6.3	19
21....	2.6	.158	.065	5.1	3.6	43.4	17.3	51.2	--	5.2	21
22....	3.4	.161	.060	5.1	2.4	35.4	17.0	43.2	--	6.8	18
22....	1.9	.135	.063	4.6	2.4	35.9	19.4	44.8	--	4.6	18
28....	3.6	.150	.054	--	--	54.9	12.9	60.4	--	--	14
28....	1.6	.144	.063	--	--	33.3	17.8	41.4	--	--	31
AUG											
06....	2.0	.197	.048	7.6	3.6	78.3	16.8	85.3	--	6.9	31
06....	2.6	.153	.077	6.8	3.3	79.3	28.9	92.1	--	3.6	19
18....	2.6	.153	.033	6.4	3.1	75.5	9.7	79.1	24	--	17

01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SILICA, DIS- SOLVED (MG/LI AS SID2)	(00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS V)	(00613)	VITRO- GEN, N02+N03 DIS- SOLVED (MG/LI AS N)	(00631)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	(00610)	VITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	(00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS V)	(00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	(00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	(00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	(00623)
AUG																							
18...	1515	--	40000			2.4	.190	1.4	.230	1.4	1.4	.200	.230	.200	.74	.22	.97	.22	.97	.42	.42	.49	.49
24...	1745	--	30000			1.6	.200	1.9	.150	1.9	1.9	.170	.150	.170	.85	.32	1.00	.32	1.00	.49	1.00	.69	.69
24...	1755	--	40000			1.4	.210	2.4	.190	2.4	2.4	.170	.190	.170	.81	.52	1.00	.52	1.00	.69	1.00	.69	.69
25...	0720	--	30000			2.0	.220	2.9	.210	2.9	2.9	.250	.210	.250	.99	.52	1.20	.52	1.20	.61	1.20	.61	.61
25...	0750	--	40000			1.8	.200	1.8	.300	1.8	1.8	.190	.300	.190	.90	.36	1.20	.36	1.20	.61	1.20	.61	.61
25...	1755	--	30000			1.4	.210	2.5	.150	2.5	2.5	.190	.150	.190	.95	.78	1.10	.78	1.10	.97	1.10	.79	.79
25...	1820	--	40000			1.2	.200	1.8	.170	1.8	1.8	.190	.170	.190	.93	.60	1.10	.60	1.10	.79	1.10	.53	.53
26...	0715	--	30000			1.6	.210	2.4	.260	2.4	2.4	.300	.260	.300	.84	.23	1.10	.23	1.10	.98	1.10	.73	.73
26...	0745	--	40000			1.1	.200	1.9	.190	1.9	1.9	.240	.190	.240	.79	.49	.99	.49	.99	.63	.99	.63	.63
26...	1720	--	30000			1.3	.210	2.1	.150	2.1	2.1	.180	.150	.180	.84	.45	.99	.45	.99	.63	.99	.63	.63
26...	1740	--	40000			1.1	.200	1.8	.150	1.8	1.8	.190	.150	.190	.82	.42	.97	.42	.97	.61	.97	.61	.61
SEP																							
01...	1310	--	600			1.8	.330	2.9	--	2.9	2.9	.310	--	.310	--	.61	1.20	.61	1.20	.92	1.20	.82	.82
01...	1330	--	3400			1.7	.320	2.0	--	2.0	2.0	.380	--	.380	--	.44	1.30	.44	1.30	.86	1.30	.86	.86
10...	0720	--	3400			2.4	.220	1.7	--	1.7	1.7	.250	--	.250	--	.61	1.00	.61	1.00	.86	1.00	.86	.86
10...	0605	--	600			2.9	.360	3.6	--	3.6	3.6	.290	--	.290	--	.01	.73	.01	.73	.30	.73	.30	.30
16...	1230	--	600			3.5	.210	3.2	--	3.2	3.2	.310	--	.310	--	.47	.84	.47	.84	.78	.84	.78	.78
16...	1300	--	3400			3.5	.140	1.9	--	1.9	1.9	.340	--	.340	--	.33	.86	.33	.86	.67	.86	.67	.67
22...	0950	--	600			4.7	.160	3.1	--	3.1	3.1	.370	--	.370	--	.46	1.10	.46	1.10	.83	1.10	.83	.83
22...	1015	--	3400			4.9	.100	1.7	--	1.7	1.7	.310	--	.310	--	.47	.93	.47	.93	.78	.93	.78	.78

APPENDIX A-1

01552590 -- POTOMAC R AT ALEXANDRIA, VA. ---Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00692)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
AUG 18...	1.8	.163	.046	5.5	3.5	48.5	18.7	56.9	43	--	26
24...	2.4	.146	.036	4.8	3.8	79.1	8.0	81.8	--	--	18
24...	3.1	.137	.040	4.0	3.9	64.7	12.6	69.8	--	--	16
25...	3.6	.151	.039	6.8	3.4	--	--	--	--	--	15
25...	2.4	.135	.036	4.3	3.4	53.8	19.7	62.6	--	--	17
25...	3.5	.154	.042	5.7	4.5	82.9	9.8	86.5	--	11	23
25...	2.6	.122	.030	4.6	4.9	53.0	17.3	70.5	--	6.7	15
26...	2.9	.170	.042	1.9	.8	51.5	22.1	61.5	--	6.6	15
26...	2.6	.133	.035	3.1	1.9	54.5	20.2	63.5	--	12	12
26...	2.7	.137	.040	6.4	4.1	64.0	17.4	71.5	--	10	20
26...	2.4	.149	.042	4.9	3.8	64.7	14.5	70.8	--	6.3	18
SEP 01...	3.8	.153	.070	--	--	--	--	--	--	--	8
01...	2.8	.163	.059	--	--	--	--	--	--	--	13
10...	2.6	.095	.060	--	--	--	--	--	--	--	21
10...	3.9	.198	.118	--	--	--	--	--	--	--	23
16...	4.0	.235	.105	--	--	--	--	--	--	--	23
16...	2.6	.177	.080	--	--	--	--	--	--	--	30
22...	3.9	.306	.225	4.2	--	--	--	--	--	--	20
22...	2.5	.214	.128	3.7	--	--	--	--	--	--	23

APPENDIX A-1

384605077015900 - POTOMAC RIVER - AT ROSIER BLUFF

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMP- L BANK)	(00009)	SILICA, DIS-	(00955)	NITRO- GEN, NITRITE DIS-	(00613)	NITRO- GEN, N2+NO3 DIS-	(00631)	NITRO- GEN, AMMONIA DIS-	(00605)	NITRO- GEN, ORGANIC DIS-	(00607)	NITRO- GEN, AM- MONIA ORGANIC TOTAL	(00625)	NITRO- GEN, AM- MONIA ORGANIC TOTAL	(00623)	
		(FT)	(00009)	(00955)	(00613)	(MG/L AS SI02)	(AS V)	(MG/L AS N)	(00610)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)
OCT																				
02...	1445	--	50000	5.1	.180	5.1	.180	.06	1.70	1.70	.06	1.70	.10	.00	.00	1.80	1.80	1.4	1.4	1.4
21...	0950	--	625	3.4	.140	3.4	.140	2.5	1.40	1.50	2.5	1.50	.40	.60	.60	1.80	1.80	2.1	2.1	2.1
NOV																				
18...	1420	--	625	1.7	.050	1.7	.050	3.6	.700	.710	3.6	.710	.30	.23	.23	1.00	1.00	.94	.94	.94
DEC																				
16...	1425	--	50000	4.4	.020	4.4	.020	2.6	.450	.490	2.6	.490	.32	.17	.17	.77	.77	.66	.66	.66
FEB																				
04...	1020	--	625	1.2	.030	1.2	.030	2.7	.760	.720	2.7	.720	.44	.11	.11	1.20	1.20	.83	.83	.83
MAR																				
04...	0925	--	625	6.8	.020	6.8	.020	2.5	.210	.210	2.5	.210	.44	.22	.22	.65	.65	.43	.43	.43
MAY																				
19...	0850	--	625	4.3	.030	4.3	.030	1.3	--	.430	1.3	.430	--	.44	.44	.93	.93	.87	.87	.87
JUL																				
08...	2000	--	50000	4.9	.040	4.9	.040	1.4	.160	.120	1.4	.120	.63	.42	.42	.79	.79	.54	.54	.54
20...	0640	--	50000	4.8	.060	4.8	.060	1.8	.480	.390	1.8	.390	1.1	.53	.53	1.60	1.60	.92	.92	.92
20...	1730	--	50000	4.5	.060	4.5	.060	1.6	.220	.180	1.6	.180	.77	.51	.51	.99	.99	.69	.69	.69
21...	0600	--	50000	4.6	.070	4.6	.070	1.7	.520	.500	1.7	.500	.98	.60	.60	1.50	1.50	1.1	1.1	1.1
21...	1610	--	50000	4.3	.080	4.3	.080	1.7	.400	.360	1.7	.360	1.2	.74	.74	1.60	1.60	1.1	1.1	1.1
22...	0615	--	50000	4.2	.070	4.2	.070	1.7	.460	.450	1.7	.450	1.1	1.3	1.3	1.60	1.60	1.7	1.7	1.7
AUG																				
06...	1345	--	50000	1.1	.130	1.1	.130	1.3	.110	.120	1.3	.120	1.1	.20	.20	1.20	1.20	.32	.32	.32
18...	0930	--	50000	--	.150	--	.150	.74	.130	.010	.74	.010	.97	.39	.39	1.10	1.10	.40	.40	.40
18...	1415	--	50000	2.3	.230	2.3	.230	1.5	.070	.080	1.5	.080	1.0	.42	.42	1.10	1.10	.50	.50	.50
24...	1700	--	50000	1.2	.190	1.2	.190	1.6	.120	.110	1.6	.110	.98	.53	.53	1.10	1.10	.64	.64	.64
25...	0645	--	50000	1.2	.190	1.2	.190	1.6	.130	.130	1.6	.130	1.1	.63	.63	1.20	1.20	.76	.76	.76
25...	1730	--	50000	1.1	.200	1.1	.200	1.6	.140	.150	1.6	.150	.96	.52	.52	1.10	1.10	.67	.67	.67
26...	0645	--	50000	.8	.170	.8	.170	1.5	.120	.150	1.5	.150	.86	.74	.74	.98	.98	.89	.89	.89
26...	1650	--	50000	1.0	.180	1.0	.180	1.6	.110	.170	1.6	.170	.99	.43	.43	1.10	1.10	.60	.60	.60

APPENDIX A-1

384605077015800 - POTOMAC RIVER AT ROSIER BLUFF --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITROGEN SOLVED (MG/L) AS N) (00602)	PHOSPHORUS TOTAL (MG/L) AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L) AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L) AS C) (00680)	CARBON, ORGANIC DISSOLVED (MG/L) AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT 02	1.5	.107	.042	5.6	--	8.2	5.5	10.8	--	--	12
OCT 21	4.6	.101	.041	4.6	--	17.3	8.8	21.3	37	--	16
NOV 18	4.5	.146	.084	4.9	--	9.2	6.7	12.3	27	--	22
DEC 16	3.3	.134	.037	--	--	2.4	5.3	4.9	--	--	19
FEB 04	3.5	.175	.109	--	--	4.7	1.5	5.3	--	--	9
MAR 04	2.9	.121	.063	--	--	3.5	3.2	5.0	26	1.9	16
MAY 19	2.2	.156	.077	--	--	--	--	--	46	--	33
JUL 08	1.9	.110	.047	5.0	2.0	23.7	7.8	27.2	20	1.3	25
JUL 20	2.7	.143	.048	5.6	2.9	37.4	14.3	43.8	--	9.6	18
JUL 20	2.3	.076	.035	7.8	3.1	46.6	16.8	54.1	--	6.3	20
JUL 21	2.8	.164	.078	--	3.4	33.1	12.5	38.7	--	5.6	16
JUL 21	2.8	.157	.055	5.3	3.9	54.6	12.7	60.0	--	6.9	26
JUL 22	3.4	.149	.061	5.3	3.2	35.4	15.6	42.5	--	.0	17
AUG 06	1.6	.119	.044	4.9	4.0	84.0	16.0	90.5	--	3.1	20
AUG 18	1.1	.150	.088	--	--	--	--	--	--	--	--
AUG 18	2.0	.171	.033	7.4	3.8	68.6	20.7	77.6	42	--	27
AUG 24	2.2	.122	.030	5.0	3.4	63.7	--	--	--	--	17
AUG 25	2.4	.127	.029	5.2	5.1	55.2	19.3	63.8	--	--	23
AUG 25	2.3	.118	.024	4.9	4.3	66.8	13.0	72.1	--	14	16
AUG 26	2.4	.123	.033	2.2	.9	54.3	16.5	61.6	--	6.5	16
AUG 26	2.2	.126	.037	4.9	3.9	61.0	12.5	66.2	--	9.2	23

APPENDIX A-1

384318077020300 - POTOMAC RIVER AT HATTON POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SAMP- LING DEPTH (FT)	TIME	(00003)	(00955)	(00613)	(00631)	(00610)	(00608)	(00605)	(00507)	(00625)	(00623)
			(00009)	(00955)	(00613)	(00631)	(00610)	(00608)	(00605)	(00507)	(00625)	(00623)
				SILICA, DJS- SOLVED (MG/L) AS SID2)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N)	VITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L) AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L) AS N)
OCT 02...	--	50000	4.6		.160	1.9	1.20	1.20	.40	.30	1.60	1.5
NOV 21...	--	50000	2.0		.090	2.0	.250	.270	.63	.30	.88	.57
DEC 18...	--	50000	1.6		.060	2.8	.720	.730	.48	.47	1.20	1.2
DEC 16...	--	50000	4.6		.020	2.5	.480	.510	.29	.30	.77	.81
FEB 04...	--	1000	1.6		.030	2.9	1.40	1.40	.00	.00	1.30	1.4
MAR 04...	--	1000	6.7		.020	2.3	.320	.300	.21	.16	.53	.46
APR 29...	--	50000	--		.030	1.5	.270	.270	.56	.44	.83	.71
MAY 19...	--	1000	3.7		.040	1.3	--	.450	--	.52	.99	.97
JUN 30...	--	1000	5.5		.050	1.8	--	.350	--	.27	.81	.62
JUL 08...	--	50000	4.8		.050	1.4	.270	.240	.93	.40	1.20	.64
JUL 15...	--	1000	5.0		.050	1.3	.330	.350	.77	.22	1.10	.58
JUL 20...	--	50000	4.8		.060	1.5	.450	.380	.85	.72	1.30	1.1
JUL 20...	--	50000	4.6		.070	1.6	.440	.330	.76	.40	1.20	.73
JUL 21...	--	50000	4.4		.070	1.5	.400	.300	.55	.46	.95	.76
JUL 21...	--	50000	4.2		.070	1.6	.340	.320	1.1	.62	1.40	.94
JUL 22...	--	50000	3.9		.070	1.6	.360	.380	1.0	.49	1.40	.87
JUL 27...	--	1000	3.2		.080	1.5	--	.350	--	.53	1.10	.88
JUL 28...	--	1000	2.4		.090	1.5	--	.420	--	.58	--	1.0
JUL 29...	--	1000	2.4		.090	1.5	--	.280	--	.62	1.40	.90
AUG 31...	--	50000	--		.110	1.1	--	.110	--	.40	1.90	.51
AUG 31...	--	2400	--		.110	1.1	--	.240	--	.62	1.20	.86
AUG 31...	--	50000	2.2		.080	1.1	--	.120	--	.33	1.30	.45
AUG 03...	--	50000	.9		.160	1.2	--	.080	--	.35	.80	.43
AUG 04...	--	50000	1.3		.120	1.2	--	.070	--	.35	--	.42
AUG 05...	--	50000	1.1		.130	1.3	--	.180	--	.39	1.10	.57
AUG 06...	--	50000	1.0		.130	1.2	.150	.150	.95	.52	1.10	.67
AUG 18...	--	50000	2.1		.270	1.3	.060	.080	.86	.62	.92	.70
AUG 24...	--	50000	1.1		.170	1.3	.080	.090	.66	.54	.74	.63
AUG 25...	--	50000	1.0		.170	1.3	.120	.130	.76	.35	.88	.48
AUG 25...	--	50000	1.0		.190	1.7	.110	.170	.85	.43	.97	.60
AUG 26...	--	50000	.8		.160	1.4	--	.200	--	.26	--	.46

384318077020300 - POTOMAC RIVER AT HATTON POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADEN- OSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (20154)
OCT 02...	3.4	.100	.036	5.3	--	10.6	8.8	14.7	--	--	16
OCT 21...	2.6	.093	.012	4.6	--	10.4	6.9	13.6	24	--	21
NOV 14...	4.0	.097	.061	4.4	--	6.8	5.0	9.1	22	--	13
DEC 16...	3.3	.125	.055	--	--	2.5	6.4	5.5	--	--	32
FEB 04...	4.3	.174	.087	--	--	8.6	4.4	10.6	--	--	17
MAR 04...	2.8	.138	.057	--	--	4.1	5.4	6.6	27	1.2	35
APR 29...	2.2	.116	.025	--	--	--	--	--	--	--	--
MAY 19...	2.3	.111	.045	--	--	--	--	--	34	--	29
JUN 30...	2.4	.129	.044	--	--	--	--	--	--	--	42
JUL 04...	2.0	.116	.050	3.2	2.9	17.0	7.9	20.6	--	.5	34
JUL 15...	1.9	.099	.051	--	--	25.3	13.2	31.3	--	--	21
JUL 20...	2.6	.137	.047	6.3	3.5	41.5	9.0	45.3	--	1.0	32
JUL 20...	2.3	.072	.047	6.2	3.1	29.4	9.8	33.8	--	4.0	18
JUL 21...	2.3	.090	.031	5.7	3.1	54.1	9.7	58.0	--	6.2	28
JUL 21...	2.5	.139	.041	5.5	3.2	42.7	13.3	48.5	--	.0	22
JUL 22...	2.5	.132	.044	6.4	3.2	32.8	10.6	37.5	--	3.9	18
JUL 27...	2.4	.127	.072	--	--	56.2	17.1	63.8	--	--	--
JUL 28...	2.5	--	.019	--	--	55.9	15.0	62.3	--	--	27
JUL 29...	2.4	.146	.046	--	--	--	--	--	--	--	--
JUL 31...	1.6	.155	.047	--	--	--	--	--	--	--	--
JUL 31...	2.0	.163	.034	--	--	--	--	--	--	--	--
JUL 31...	1.6	.137	.050	--	--	--	--	--	--	--	--
AUG 03...	1.6	.105	.009	--	--	--	--	--	--	--	18
AUG 04...	1.6	--	.012	--	--	--	--	--	--	--	--
AUG 05...	1.9	.144	.047	--	--	--	--	--	--	--	--
AUG 06...	1.9	.171	.046	5.3	3.7	59.7	11.1	64.3	--	6.1	--
AUG 18...	2.0	.155	.041	6.0	3.1	61.5	11.1	66.0	31	--	17
AUG 24...	1.9	.100	.058	6.4	3.3	--	--	--	--	--	14
AUG 25...	1.8	.118	.031	5.0	4.0	46.2	12.1	51.4	--	--	24
AUG 25...	2.3	.123	.026	4.0	3.7	71.6	14.1	77.4	--	29	24
AUG 26...	1.9	.041	.019	4.3	4.2	33.1	15.4	40.1	--	2.4	18

384318077020300 - POTUMAC RIVER AT HATTON POINT ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00001)	SAMP- LION (FT FM L BANK)	(00009)	SILICA, DIS- SOLVED (MG/LI AS SI02)	(00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	(00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	(00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	(00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	(00607)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	(00625)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	(00623)	
AUG 26...	2100	--	50000			.8		.170		1.3		.120		.120		.98		.53		1.10		.65
SEP 16...	1020	--	1000			1.5		--		--		--		--		--		--		.50		--
SEP 22...	0920	--	1000			3.5		.140		2.1		.320		--		--		.42		.85		.74

APPENDIX A-1

384318077020300 - POTOMAC RIVER AT HATTON POINT --- Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00655)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
AUG 26...	2.0	.112	.038	5.1	4.0	51.1	10.4	55.4	--	6.2	18
SEP 16...	--	.109	.013	--	--	--	--	--	--	--	24
22...	2.8	.158	.082	3.8	--	--	--	--	--	--	28

384136077054500 - POTOMAC RIVER AT MARSHALL HALL

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE:	TIME	SAMP- LING DEPTH (FT)	(000003)	SAMP- LOC- TION, CROSS SECTION (FT FM L BANK)	(000009)	SILICA, DIS- SOLVED (MG/LI AS SI02)	(00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	(00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	(00631)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	(00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	(00607)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	(00625)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	(00623)
OCT 02...	1620	--	50000			3.5		.130		1.8		.350		.360		.37		1.40		.73	
OCT 21...	1100	--	50000			3.3		.100		2.4		.910		.910		.39		1.40		1.3	
NOV 18...	1230	--	50000			1.3		.050		2.6		.640		.680		.21		1.20		.89	
DEC 16...	1320	--	50000			4.1		.020		2.4		.390		.530		.17		.81		.70	
FEB 04...	1115	--	2300			1.8		.030		2.9		1.60		1.60		.20		1.60		1.8	
MAR 04...	0840	--	2300			6.7		.020		2.6		--		.310		.23		.90		.54	
APR 15...	0915	--	2300			2.5		.070		3.8		--		.350		.25		.62		.60	
APR 29...	1130	--	50000			--		.030		1.6		.340		.330		.22		.83		.55	
MAY 19...	0925	--	2300			2.6		.040		1.2		--		.380		.44		1.10		.82	
JUN 30...	1140	--	2300			5.7		.060		1.7		--		.320		.45		.88		.77	
JUL 08...	1830	--	50000			4.8		.060		1.3		.310		.350		.56		.92		.91	
JUL 20...	0725	--	50000			4.0		.050		1.3		.330		.180		.61		1.10		.79	
JUL 20...	1745	--	50000			4.4		.060		1.4		.380		.320		.39		.80		.71	
JUL 21...	0940	--	50000			3.8		.050		1.3		.270		.160		.26		.84		.42	
JUL 21...	1745	--	50000			4.1		.060		1.4		.290		.300		.55		1.20		.85	
JUL 22...	0715	--	50000			4.1		.060		1.5		.320		.310		.53		1.10		.84	
JUL 28...	1100	--	2300			2.6		.070		1.5		--		.400		.27		1.40		.67	
AUG 06...	1515	--	50000			1.4		.110		1.2		.270		.300		.27		1.40		.57	
AUG 18...	1200	--	50000			1.6		.210		1.1		.080		.090		.33		.86		.42	
AUG 24...	1900	--	50000			.9		.180		1.1		.120		.120		.70		.89		.82	
AUG 25...	0750	--	50000			.9		.160		1.2		.180		.170		.49		.89		.66	
AUG 25...	2145	--	50000			.8		.160		1.2		.130		.150		.41		.93		.56	
AUG 26...	0815	--	50000			.6		<.010		1.1		.110		.180		.34		1.10		.52	
AUG 26...	2015	--	50000			.6		.130		1.0		.090		.070		.37		1.40		.44	
SEP 16...	0945	--	2300			.6		.060		1.5		--		.090		.42		.93		.51	
SEP 22...	0855	19.0	2300			2.8		.130		2.0		--		.210		.23		.76		.44	

384136077054500 - POTOMAC RIVER AT MARSHALL HALL ---Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DISELVED (MG/L) AS V) (00602)	PHOS- PHORUS, TOTAL (MG/L) AS P) (00665)	PHOS- PHORUS, SOLVED (MG/L) AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L) AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L) AS C) (00681)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLURO- METRIC METHOD UNCORR. (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT 02...	2.5	.102	.025	5.6	--	23.3	14.6	30.0	--	--	12
OCT 21...	3.7	.098	.021	5.2	--	17.4	10.6	22.4	--	--	21
NOV 18...	3.5	.099	.047	--	--	9.1	10.1	13.9	18	--	20
DEC 16...	3.1	.162	.061	--	--	8.4	13.3	14.7	--	--	43
FEB 04...	4.7	.141	.079	--	--	11.5	9.5	15.9	--	--	44
MAR 04...	3.1	.080	.073	--	--	4.4	6.4	7.5	12	1.2	179
APR 15...	4.4	.114	.055	--	--	44.9	57.0	71.9	44	--	63
APR 29...	2.2	.094	.067	--	--	--	--	--	--	--	--
MAY 19...	2.0	.099	.048	--	--	--	--	--	--	--	32
MAY 30...	2.5	.146	.053	--	--	--	--	--	23	--	--
JUL 08...	2.2	.100	.037	4.0	2.6	14.4	8.4	18.3	29	.4	53
JUL 20...	2.1	.150	.040	5.8	3.0	24.3	16.6	32.0	--	1.2	58
JUL 20...	2.1	.060	.066	--	3.2	28.8	7.0	31.8	--	.9	19
JUL 21...	1.7	.091	.028	8.2	2.9	24.8	14.9	31.6	--	2.7	59
JUL 21...	2.3	.091	.063	5.0	2.4	30.0	9.2	34.0	--	2.3	24
JUL 22...	2.4	.114	.048	4.8	3.2	25.7	9.2	29.8	--	4.6	21
JUL 28...	2.2	.154	.043	--	--	33.2	17.8	41.4	--	--	42
AUG 06...	1.8	.169	.154	4.8	4.4	31.0	14.0	37.5	--	4.4	25
AUG 18...	1.5	.137	.034	5.9	3.4	58.9	16.9	66.3	32	--	25
AUG 24...	1.9	.110	.040	6.2	3.2	35.6	17.3	43.5	--	--	23
AUG 25...	1.9	.125	.041	5.3	3.6	30.0	20.7	39.6	--	--	27
AUG 25...	1.8	.119	.028	4.3	4.1	45.0	15.6	51.9	--	9.2	29
AUG 26...	1.6	.030	.021	4.7	4.2	38.8	20.8	48.3	--	5.0	24
AUG 26...	1.4	.098	.023	6.4	4.0	52.2	14.2	58.4	--	5.9	28
SEP 16...	2.0	.113	.032	--	--	22.6	20.6	32.3	--	--	31
SEP 22...	2.4	.147	.052	3.5	--	20.4	30.2	34.8	--	--	34

APPENDIX A-1

383818077072800 - POTOMAC RIVER AT HALLOWING POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SAMP- LING DEPTH (FT)	TIME	SAMP- SECTION: (FT FM L BANK)	SILICA, DIS- SOLVED (MG/LI AS SIO2)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, N2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)
OCT 02...	--	50000	(00009)	2.8	.050	1.5	.060	.89	.23	.95	.32	.32
OCT 21...	--	50000	(00009)	3.3	.130	2.5	1.10	.40	.10	1.50	1.3	1.3
NOV 18...	--	50000	(00009)	.9	.040	2.1	.390	.56	.47	.95	.87	.87
DEC 16...	--	50000	(00009)	2.6	.020	2.1	.310	.43	.31	.74	.63	.63
FEB 04...	--	50000	(00009)	2.0	.030	2.6	1.50	.00	.00	1.50	1.5	1.5
MAR 04...	--	4020	(00009)	6.4	.020	2.6	--	--	.34	1.20	.62	.62
MAY 19...	--	4020	(00009)	1.7	.040	1.2	--	--	.45	.99	.79	.79
JUN 19...	--	50000	(00009)	--	.030	1.1	.290	.53	.33	.82	.58	.58
JUL 08...	--	50000	(00009)	4.6	.080	1.6	.290	1.0	.55	1.30	.87	.87
JUL 15...	--	4020	(00009)	4.1	.040	1.2	.100	.50	.29	.60	.43	.43
JUL 20...	--	50000	(00009)	3.6	.030	.94	.120	.98	.52	1.10	.59	.59
JUL 20...	--	50000	(00009)	3.7	.030	.90	.060	.65	.33	.71	.55	.55
JUL 21...	--	50000	(00009)	3.6	.030	.92	.110	.68	.46	.79	.55	.55
JUL 21...	--	50000	(00009)	3.5	.050	1.2	.160	.69	.54	.85	.72	.72
JUL 22...	--	50000	(00009)	3.6	.040	1.1	.130	.86	.42	.97	.53	.53
JUL 27...	--	50000	(00009)	2.5	.040	.85	--	--	.35	.68	.38	.38
JUL 28...	--	4020	(00009)	2.6	.050	1.1	--	--	.70	1.10	.90	.90
JUL 29...	--	50000	(00009)	2.3	.030	.57	--	--	.30	.84	.33	.33
JUL 31...	--	50000	(00009)	1.6	.030	.78	--	--	.35	.97	.41	.41
AUG 03...	--	50000	(00009)	1.4	.100	.96	--	--	.36	.81	.51	.51
AUG 04...	--	50000	(00009)	1.6	.070	1.1	--	--	.56	.80	.74	.74
AUG 05...	--	4020	(00009)	1.4	--	--	--	--	--	--	--	--
AUG 06...	--	50000	(00009)	1.5	.060	.97	.170	1.0	.48	1.20	.63	.63
AUG 07...	--	50000	(00009)	1.6	.060	.93	--	--	.62	.95	.84	.84
AUG 18...	--	50000	(00009)	1.4	.170	.84	.070	.93	.32	1.00	.41	.41
AUG 24...	--	50000	(00009)	.8	.100	.86	.040	.90	.60	.94	.63	.63
AUG 25...	--	50000	(00009)	.7	.120	.87	.080	.92	.38	1.00	.46	.46
AUG 25...	--	50000	(00009)	.6	.120	.89	.190	.75	.47	.94	.60	.60
AUG 26...	--	50000	(00009)	.8	.120	.76	.080	.70	.32	.78	.42	.42
AUG 26...	--	50000	(00009)	1.4	.100	.64	.070	.57	.51	.64	.61	.61
SEP 10...	--	4020	(00009)	.8	.160	1.1	--	--	.56	.55	.63	.63

APPENDIX A-1
 383818077072800 - POTOMAC RIVER AT HALLOWING POINT ---Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLURO- METRIC METHOD UNCORR. (UG/L) (32213)	CHLORO- PHYLL A FLOURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADEN- OSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT 02...	1.8	.090	.024	5.1	--	38.3	20.3	47.6	--	--	10
OCT 21...	3.8	.091	.028	4.8	--	42.7	17.1	50.3	--	--	23
NOV 19...	3.0	.079	.030	5.4	--	18.0	11.0	23.1	--	--	20
DEC 16...	2.7	.158	.019	--	--	19.4	15.0	26.4	--	--	38
FEB 04...	4.1	.130	.070	--	--	7.4	7.0	10.6	--	--	24
MAR 04...	3.2	.096	.055	--	--	3.5	7.5	7.1	34	1.5	52
MAY 19...	2.0	.123	.024	--	--	--	--	--	38	--	41
JUN 08...	1.7	.071	.048	--	--	--	--	--	--	--	--
JUL 04...	2.5	.097	.029	4.6	3.2	26.9	11.1	31.9	38	--	--
JUL 15...	1.6	.076	.019	--	--	37.3	23.2	48.0	--	--	27
JUL 20...	1.5	.160	.026	6.1	3.1	58.7	19.2	67.2	--	3.3	73
JUL 20...	1.3	.074	.028	6.4	3.6	47.5	21.0	57.0	--	9.6	43
JUL 21...	1.5	.093	.080	12	3.0	32.6	11.0	37.5	--	7.3	54
JUL 21...	1.9	.103	<.001	4.1	2.4	40.8	19.2	49.5	--	1.0	25
JUL 22...	1.6	.120	.031	4.2	2.4	28.7	15.9	36.0	--	2.5	33
JUL 27...	1.2	.128	.035	--	--	--	--	--	--	--	--
JUL 28...	2.0	.126	.049	--	--	--	--	--	--	--	42
JUL 29...	.90	.141	.041	--	--	--	--	--	--	--	--
JUL 31...	1.2	.209	.089	--	--	--	--	--	--	--	--
AUG 03...	1.5	.107	.011	--	--	--	--	--	--	--	--
AUG 04...	1.8	.139	.020	--	--	--	--	--	--	--	--
AUG 05...	--	--	--	--	--	--	--	--	--	--	--
AUG 06...	1.6	.152	.113	5.0	3.4	37.9	15.7	44.9	--	3.0	29
AUG 07...	1.8	.136	.036	--	--	52.9	18.3	61.0	14	--	22
AUG 18...	1.3	.134	.038	5.7	2.9	56.9	17.7	64.7	--	--	29
AUG 24...	1.5	.116	.034	6.7	3.4	55.0	17.2	62.6	--	--	30
AUG 25...	1.3	.110	.028	5.2	3.8	60.0	15.4	66.6	--	--	28
AUG 25...	1.5	.114	.038	3.2	3.8	51.2	20.9	60.6	--	9.2	33
AUG 26...	1.2	.036	.008	4.1	7.3	58.4	8.8	61.9	--	8.0	14
AUG 26...	1.3	.089	.036	5.4	3.8	58.4	8.8	61.9	--	.0	14
SEP 10...	1.7	.073	.062	--	--	--	--	--	--	--	--

APPENDIX A-1
 383818077072800 - POTOMAC RIVER AT HALLOWING POINT --Cont.

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

DATE	TIME	SAMP- LING DEPTH (FT)	LOC- ATION, CROSS SECTION (FT FM L BANK)	SILICA, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L)	NITRO- GEN, AMMONIA TOTAL (MG/L)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L)	NITRO- GEN, ORGANIC TOTAL (MG/L)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L)
SEP 16...	0900	--	4020	1.1	.050	1.1	--	--	.110	.43	1.00	.54
SEP 22...	0825	--	4020	1.4	.100	1.6	--	--	.130	.44	.76	.57

APPENDIX A-1

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00566)	CARBON, ORGANIC TOTAL (MG/L AS C) (00580)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
SFP	1.6	.143	.029	--	--	--	--	--	--	--	39
16...	2.2	.132	.046	4.4	--	--	--	--	--	--	39

APPENDIX A-1

01655480

-- POTOMAC R AT INDIAN HEAD, MD

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(000003)	SAMPLE LDC- ATION, CROSS SECTION, (FT FM LI BANK)	(000009)	SILICA, DIS- SOLVED (MG/LI AS SID2)	(009555)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	(00613)	NITRO- GEN, NO2+ND3 DIS- SOLVED (MG/LI AS N)	(00631)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/LI AS N)	(00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/LI AS N)	(00605)	NITRO- GEN, AM- MONIA ORGANIC TOTAL (MG/L AS N)	(00625)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/LI AS N)	(00607)	NITRO- GEN, AM- MONIA ORGANIC TOTAL (MG/L AS N)	(00625)	NITRO- GEN, AM- MONIA ORGANIC DIS- SOLVED (MG/LI AS N)	(00623)	
OCT 02...	1800	--	50000			2.4		.030		1.2		.060		.080		.45		.51		.30		.22		.86		.36
OCT 21...	1255	--	50000			1.6		.060		1.1		.120		.080		.74		.86		.36		.28		.86		.36
NOV 10...	1000	--	50000			1.0		.030		1.7		.310		.270		.33		.64		.62		.35		.64		.62
DEC 16...	1120	--	50000			2.1		.020		2.0		.280		.240		.47		.75		.46		.22		.75		.46
FEB 04...	1210	--	1500			2.2		.030		2.3		1.20		1.10		.30		1.50		.82		.00		1.50		.82
MAR 04...	0750	--	1500			6.4		.020		2.6		--		.250		--		.80		.57		.32		.80		.57
APR 15...	1000	--	1500			.8		.040		3.0		--		.300		--		.80		.35		.05		.80		.35
MAY 19...	1025	--	1500			.9		.040		1.3		--		.350		--		.94		.76		.41		.94		.76
MAY 19...	1040	--	5300			1.4		.040		1.2		--		.350		--		1.10		.80		.45		1.10		.80
JUN 08...	1130	--	50000			--		.030		.97		.160		.130		.94		1.10		.49		.36		1.10		.49
JUN 30...	1320	--	1500			5.3		.040		1.4		--		.110		--		1.70		.53		.42		1.70		.53
JUN 30...	1340	--	5300			5.0		.020		.97		--		<.010		--		.89		.49		--		.89		.49
JUL 08...	1640	--	50000			4.2		.070		1.4		.200		.160		1.1		1.30		.91		.75		1.30		.91
JUL 20...	1120	--	50000			3.6		.030		.83		.080		.070		1.0		1.10		.48		.41		1.10		.48
JUL 20...	1950	--	50000			3.6		.030		.88		.060		.050		.72		.78		.55		.50		.78		.55
JUL 21...	0745	--	50000			3.7		.030		.85		.100		.050		.68		.78		.74		.69		.78		.74
JUL 21...	1940	--	50000			3.3		.030		.87		.090		.050		1.0		1.10		.58		.53		1.10		.58
JUL 22...	0915	--	50000			3.2		.030		.86		.120		.050		.81		.93		.78		.73		.93		.78
JUL 28...	0935	--	1500			2.4		.040		1.1		--		.190		--		1.00		.58		.39		1.00		.58
JUL 28...	0955	--	5300			2.5		.030		.54		--		.050		--		1.10		.34		.29		1.10		.34
AUG 06...	1700	--	50000			1.6		.050		.87		.130		.160		.87		1.00		.54		.38		1.00		.54
AUG 18...	0950	--	50000			2.1		.140		.73		.060		.080		.90		.96		.31		.23		.96		.31
AUG 24...	2110	--	50000			1.5		.100		.67		.070		.060		1.0		1.10		.67		.61		1.10		.67
AUG 25...	1000	--	50000			1.5		.110		.73		.080		.110		1.0		1.10		.75		.64		1.10		.75
AUG 25...	1900	--	50000			1.6		.100		.64		.070		.110		.84		.91		.71		.60		.91		.71
AUG 26...	1015	--	50000			1.8		.100		.55		.070		.110		.91		.98		.41		.30		.98		.41
AUG 26...	1835	--	50000			2.6		.090		.38		.060		.090		.65		.71		.45		.36		.71		.45
SEP 22...	0755	--	1500			1.2		.070		1.1		--		.150		--		.88		.97		.82		.88		.97
SEP 22...	0810	--	5300			1.1		.050		.97		--		.080		--		.61		.67		.59		.61		.67

APPENDIX A-1

01655480 - POTOMAC R AT INDIAN HEAD, MD --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DISSOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
JUL 08	2.3	.092	.034	5.6	3.1	38.7	43.5	3.4	36	
JUL 13	1.3	.121	.029	7.7	2.9	52.2	61.2	9.5	25	
JUL 20	1.4	.090	.098	6.7	3.7	57.2	67.4	---	45	
JUL 21	1.6	.078	.041	6.5	2.9	45.9	56.3	5.8	37	
JUL 22	1.5	.112	.001	6.0	2.4	55.2	62.9	5.6	---	
JUL 22	1.6	.138	.040	5.4	3.2	40.2	47.0	3.2	37	
JUL 28	1.7	.143	.050	---	---	32.3	39.1	---	42	
JUL 28	.88	.153	.035	---	---	---	---	---	36	
AUG 06	1.4	.162	.042	8.7	3.3	---	---	3.6	18	
AUG 18	1.0	.137	.053	5.9	2.7	47.8	55.0	---	34	
AUG 24	1.3	.120	.030	7.1	3.4	52.1	60.0	---	22	
AUG 25	1.5	.116	.025	4.6	3.5	51.4	58.9	---	27	
AUG 25	1.4	.112	.043	5.6	3.4	51.3	58.0	5.4	20	
AUG 26	.96	.025	.012	4.2	4.3	47.7	57.3	6.3	30	
AUG 26	.83	.118	.046	5.0	3.6	55.3	62.1	---	22	
SEP 22	2.1	.139	.040	4.1	---	---	---	---	34	
SEP 22	1.6	.126	.044	4.1	---	---	---	---	35	

01558710

- POTOMAC RIVER AT QUANTICO, VA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LNG SECTION (FT FM L BANK)	SILICA, DIS- SOLVED (MG/L) AS SI02)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N)	NITRO- GEN, MONIA + ORGANIC TOTAL (MG/L) AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N)
(00003)	(00009)	(00955)	(00613)	(00631)	(00610)	(00608)	(00605)	(00607)	(00625)	(00623)	
OCT											
02...	1850	--	50000	2.8	.060	.48	.120	.140	.82	.11	.94
09...	1415	--	6900	--	.040	.67	--	.030	--	.33	.91
16...	0940	3.0	6900	2.0	.030	.65	--	.040	--	.29	.49
16...	0950	25.0	6000	2.0	.030	.70	--	.010	--	.35	.51
21...	1350	3.0	6000	2.2	.020	.81	.070	.050	.71	.34	.78
21...	1400	29.0	6000	2.2	.020	.68	.070	.040	.80	.41	.87
30...	1600	3.0	6000	--	.030	.96	--	.120	--	.40	.73
30...	1610	29.0	6000	--	.010	.72	--	.120	--	.37	.76
NOV											
04...	0945	3.0	50000	2.0	.020	.48	--	.130	--	.36	.63
04...	0950	25.0	50000	2.3	.020	.48	--	.250	--	.95	1.00
04...	1030	3.0	5000	2.1	.020	.50	--	.100	--	.22	.76
04...	1045	27.0	5000	2.0	.020	.38	--	.140	--	.37	.65
10...	1200	3.0	5000	2.2	.020	1.2	--	.170	--	.27	.73
10...	1205	27.0	5000	2.4	.020	1.1	--	.180	--	.22	.63
12...	1900	3.0	6000	1.4	.030	1.5	--	.210	--	.34	.81
12...	1905	25.0	6000	1.5	.030	1.4	--	.220	--	.20	.70
13...	0715	3.0	5000	1.3	.040	1.5	--	.200	--	.05	.59
13...	0720	27.0	5000	1.8	.020	1.2	--	.180	--	.19	.57
18...	0920	3.0	6000	1.5	.020	1.2	--	.200	.44	.45	.61
18...	0925	27.0	6000	1.6	.020	1.1	.170	.160	.62	.53	.80
25...	1140	2.0	5000	1.5	.020	1.1	.180	.140	--	.35	.55
25...	1145	27.0	5000	1.6	.020	1.1	--	.140	--	.38	.59
DEC											
02...	1200	27.0	6000	1.2	.030	1.8	--	.280	--	.30	.67
02...	1210	3.0	5000	1.2	.040	2.0	--	.360	--	.27	.62
08...	1010	3.0	5000	1.0	.020	1.7	--	.130	--	.19	.58
08...	1015	27.0	5000	.9	.010	1.2	--	.030	--	.30	.53
15...	1710	27.0	5000	.8	.020	1.6	--	.160	--	.33	.49
15...	0900	3.0	5000	1.0	.020	1.7	.220	.160	.25	.30	.47
16...	0905	27.0	6000	.9	.020	1.6	.160	.160	.45	.39	.61
29...	1215	3.0	6900	1.5	.010	1.5	--	.560	--	.00	.64
29...	1230	29.0	6900	.8	.010	1.2	--	.060	--	.24	.46
JAN											
15...	1110	3.0	6900	1.6	.000	.02	--	.010	--	.38	.88
23...	1850	24.0	6900	1.6	.020	1.4	--	.230	--	.12	.68
23...	1900	3.0	6900	1.7	.020	1.5	--	.250	--	.02	.57
29...	1120	3.0	6000	1.9	.020	1.6	--	.310	--	.25	.76
29...	1130	25.0	6000	1.4	.020	1.3	--	.170	--	.13	.41
FEB											
04...	1250	2.0	5000	1.9	.020	1.8	.500	.460	.25	.25	.75

01658710 -- POTOMAC RIVER AT QUANTICO, VA. ---Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DISS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLURO- METRIC METHOD UNCORR. (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT 02...	.73	.105	.045	6.5	--	22.4	12.7	28.2	--	--	24
09...	1.0	.111	.021	--	--	18.8	10.0	23.3	--	--	22
16...	.98	.097	.019	--	--	41.0	15.1	47.8	--	--	3
16...	1.1	.094	.013	--	--	24.1	18.5	32.7	--	--	16
21...	1.2	.098	.032	4.2	--	--	--	--	--	--	10
21...	1.1	.134	.022	5.1	--	26.4	17.3	34.4	--	--	44
30...	1.5	.089	.036	--	--	33.4	20.4	42.8	--	--	14
30...	1.2	.092	.036	--	--	13.7	21.6	24.0	--	--	24
NOV 04...	.97	.098	.031	--	--	32.0	8.5	35.7	--	--	16
04...	1.7	.096	.027	--	--	24.0	15.0	30.9	--	--	27
04...	.82	.070	.025	--	--	18.0	8.0	21.6	--	--	12
04...	.89	.084	.027	--	--	25.5	13.5	31.7	--	--	20
10...	1.6	.080	.027	--	--	20.1	13.2	26.2	--	--	22
10...	1.5	.135	.052	--	--	19.4	25.6	31.5	--	--	62
12...	2.1	.077	.027	--	--	23.8	14.0	30.2	--	--	17
13...	1.8	.132	.032	--	--	25.0	24.2	36.4	--	--	59
13...	1.8	.076	.017	--	--	24.0	11.8	29.4	--	--	13
13...	1.6	.073	.033	--	--	17.4	10.9	22.5	--	--	17
18...	1.9	.123	.047	5.5	--	--	--	--	--	--	6
18...	1.8	.071	.025	5.1	--	16.1	13.1	22.2	--	--	15
25...	1.6	.078	.032	--	--	17.1	5.5	19.5	--	--	27
25...	1.6	.080	.032	--	--	15.4	7.5	18.9	--	--	24
DEC 02...	2.4	.051	.015	--	--	26.9	7.2	30.0	--	--	19
02...	2.6	.054	.030	--	--	21.5	4.8	23.5	--	--	6
08...	2.0	.066	.016	--	--	39.2	5.7	41.4	--	--	12
08...	1.5	.093	.016	--	--	40.9	10.3	45.2	--	--	24
15...	2.1	.057	.056	--	--	36.3	14.8	43.0	--	--	25
16...	2.2	.076	.011	--	--	--	--	--	--	--	16
16...	2.2	.090	.001	--	--	--	--	--	--	--	26
29...	2.0	.064	.023	--	--	14.6	8.2	18.3	--	--	10
29...	1.5	.095	.019	--	--	19.5	11.4	24.8	--	--	31
JAN 15...	.41	.096	.031	--	--	9.8	2.6	10.9	--	--	4
23...	1.8	.093	.038	--	--	15.7	5.7	18.2	--	--	20
23...	1.4	.063	.047	--	--	14.5	3.5	16.0	--	--	12
29...	2.2	.054	.030	--	--	22.6	2.9	23.7	--	--	7
29...	1.6	.066	.010	--	--	21.4	4.2	23.1	--	--	15
FEB 04...	2.5	.076	.010	--	--	29.8	3.7	31.1	--	--	10

APPENDIX A-1

01658710 -- POTOMAC RIVER AT QUANTICO, VA. ---Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING SECTION (FT FM LI BANK)	SILICA, DIS- SOLVED (MG/LI AS SI02)	(00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	(00613)	NITRO- GEN, N2+NO3 DIS- SOLVED (MG/LI AS N)	(00631)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/LI AS N)	(00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	(00607)	NITRO- GEN, AM- MONIA ORGANIC TOTAL (MG/L AS N)	(00625)	NITRO- GEN, AM- MONIA ORGANIC DIS- SOLVED (MG/L AS N)	(00623)
FER																			
04...	1255	30.0	5000	1.7		.020		1.6		.360		.350		.23		.90		.58	
11...	1650	26.0	6000	--		.030		1.8		--		.370		.59		1.10		.96	
11...	1655	2.0	6000	1.8		.020		1.8		--		.390		.48		1.20		.87	
17...	0930	3.0	6000	1.7		.030		2.2		--		.870		.33		.80		1.2	
17...	0935	25.0	6000	1.7		.030		2.0		--		.620		.35		.82		.97	
23...	1615	3.0	6000	--		.040		2.3		--		.720		.01		1.20		.73	
23...	1625	26.0	6000	--		.040		2.3		--		.750		.00		1.30		.44	
24...	1400	27.0	6000	--		.040		2.3		--		.720		.38		1.40		1.1	
24...	1410	3.0	6000	--		.040		2.4		--		.670		.21		1.50		.88	
25...	1550	25.0	6000	--		.020		2.2		--		.430		.53		1.40		.96	
25...	1600	3.0	6000	--		.020		2.2		--		.420		.56		.99		.98	
27...	1340	3.0	6000	--		.020		2.2		--		.400		.45		1.10		.85	
27...	1350	28.0	6000	--		.030		2.2		--		.400		.39		.90		.79	
MAR																			
03...	1935	--	6000	4.6		.030		2.0		--		.380		.14		.73		.52	
04...	0700	--	6000	4.5		.030		2.4		--		.440		.33		1.10		.77	
11...	1415	--	6000	5.7		.030		2.1		--		.420		.19		.77		.61	
18...	0900	--	6000	6.8		.020		2.1		--		.370		.03		.83		.40	
24...	1330	--	6000	5.7		.030		2.1		--		.380		.22		.93		.60	
APR																			
01...	1400	--	6000	6.6		.020		2.1		--		.380		.54		1.40		.92	
09...	1315	--	6000	6.0		.040		2.1		--		.370		.00		.90		.31	
15...	1050	--	6000	3.7		<.010		1.3		--		.030		.33		.72		.36	
16...	0920	--	6000	2.7		--		--		--		--		--		--		--	
22...	1300	--	6000	4.5		.030		1.3		--		.230		.40		.91		.63	
29...	1300	--	6000	5.2		.030		1.4		--		.200		.27		.73		.47	
MAY																			
04...	0935	--	6000	4.4		.020		1.4		--		.110		.26		.79		.37	
12...	1500	--	5000	--		.010		1.2		--		.060		.34		1.20		.40	
19...	1120	--	6000	.2		.030		1.2		--		.060		.50		.88		.56	
29...	1300	--	6000	.3		.020		1.1		--		.050		.22		.53		.27	
JUN																			
01...	1700	--	6000	1.3		.030		1.1		--		.060		.66		.85		.72	
11...	1720	--	6000	2.3		.050		2.4		--		.110		.45		.69		.56	
15...	1000	--	6000	3.7		.030		.97		--		.070		.30		.57		.37	
24...	1010	--	6000	5.4		.030		.92		--		.090		.45		.78		.54	
30...	1415	--	6900	4.9		--		.89		--		--		--		--		--	
JUL																			
08...	1520	--	50000	3.8		.020		.80		.010		.010		.59		.95		.60	
15...	1455	--	5000	3.8		.030		.90		--		.030		.38		1.10		.41	

APPENDIX A-1

01658710 - POTOMAC RIVER AT QUANTICO, VA. --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DISE- SOLVED (MG/L) AS N)	PHOS- PHORUS, TOTAL (MG/L) AS P)	PHOS- PHORUS, DISE- SOLVED (MG/L) AS P)	CARBON, ORGANIC TOTAL (MG/L) AS C)	CARBON, ORGANIC DISE- SOLVED (MG/L) AS C)	CARBON, ORGANIC TOTAL (MG/L) AS C)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE- D (MG/L) (80154)
FEB 04...	2.2	.074	.006	--	--	--	26.2	6.6	29.1	--	--	21
11...	2.8	.116	.009	--	--	--	32.8	6.0	35.3	--	--	34
11...	2.7	.090	.013	--	--	--	37.2	3.2	38.3	--	--	--
17...	3.4	.069	.032	--	--	--	--	--	--	--	--	8
17...	3.0	.087	.042	--	--	--	--	--	--	--	--	17
23...	3.0	.162	.077	--	--	--	11.8	9.7	16.4	--	--	26
23...	2.7	.173	.059	--	--	--	13.8	12.0	19.4	--	--	29
24...	3.4	.160	.067	--	--	--	--	--	--	--	--	36
24...	3.3	.155	.073	--	--	--	--	--	--	--	--	23
25...	3.2	.191	.094	--	--	--	11.6	15.8	19.1	--	--	64
25...	3.2	.243	.079	--	--	--	11.9	14.2	18.6	--	--	69
27...	3.1	.180	.065	--	--	--	2.0	10.0	6.8	--	--	41
27...	3.0	.185	.087	--	--	--	3.3	10.3	8.3	--	--	96
MAR 03...	2.5	.098	.056	--	--	--	--	--	--	--	--	21
04...	3.2	.124	.059	--	--	--	--	--	--	--	--	35
11...	2.7	.216	.018	--	--	--	5.4	17.3	13.8	--	--	83
18...	2.5	.196	.048	--	--	--	--	--	--	--	--	37
24...	2.7	.130	.065	--	--	--	--	--	--	--	--	61
APR 01...	3.0	.131	.038	--	--	--	--	--	--	--	--	97
09...	2.4	.188	.056	--	--	--	11.0	18.2	19.7	--	--	83
15...	1.7	.107	.043	--	--	--	8.7	27.9	22.1	--	--	39
16...	--	--	--	--	--	--	10.5	19.7	19.9	--	--	62
22...	1.9	.194	.050	--	--	--	13.2	22.8	24.0	--	--	86
29...	1.9	.115	.029	--	--	--	15.4	13.9	21.9	--	--	43
MAY 04...	1.8	.126	.035	--	--	--	31.1	15.8	38.3	--	--	47
12...	1.6	.130	.025	--	--	--	--	--	--	--	--	33
19...	1.8	.152	.022	--	--	--	--	--	--	31	--	55
28...	1.4	.121	.011	--	--	--	60.8	21.9	70.5	--	--	41
JUN 01...	1.8	.133	.035	--	--	--	--	--	--	--	--	45
11...	3.0	.077	.010	--	--	--	--	--	--	--	--	18
15...	1.3	.110	.023	--	--	--	--	--	--	--	--	42
24...	1.5	.119	.056	--	--	--	--	--	--	--	--	31
30...	--	--	.054	--	--	--	--	--	--	35	--	26
JUL 08...	1.4	.113	.036	4.4	2.9	45.5	14.2	14.2	51.7	27	2.6	31
15...	1.3	.134	.038	--	--	--	--	--	--	--	--	26

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(000003)	SAMPLE LOC- ATION, CROSS SECTION/ (FT FM L BANK)	(000009)	SILICA, DIS- SOLVED (MG/L) AS SID2)	(00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N)	(00613)	NITRO- GEN, NITRO- N2+NO3 DIS- SOLVED (MG/L) AS N)	(00631)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N)	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N)	(00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N)	(00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N)	(00607)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N)	(00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L) AS N)	(00623)	
JUL																								
20...	1030	--	50000			3.5		.010		.36		.080		.040		.85		.43		.93		.47		
20...	2100	--	50000			3.6		.010		.38		.040		.030		.58		.31		.72		.34		
21...	0710	--	50000			3.7		.010		.49		.090		.050		.74		.24		.83		.29		
21...	2030	--	50000			3.4		.010		.45		.040		.040		.87		.44		.91		.48		
22...	1010	--	50000			3.2		.010		.48		.070		.020		.87		.40		.94		.42		
28...	0845	--	6000			3.2		.010		.38		--		.100		--		.24		.81		.34		
AUG																								
06...	1800	--	50000			3.0		.010		.41		.120		.110		.85		.41		.97		.52		
17...	1745	--	6000			3.7		.050		.39		--		.080		--		.27		1.10		.35		
18...	0900	--	6900			4.2		.060		.33		.030		.040		.66		.32		.69		.36		
24...	2230	--	50000			3.9		.100		.32		.050		.050		1.1		.45		1.10		.50		
25...	1045	--	50000			3.7		.110		.32		.060		.080		.48		.49		.54		.57		
25...	1800	--	50000			3.7		.100		.31		.030		.050		.76		.49		.79		.54		
26...	1100	--	50000			3.9		.080		.28		.090		.080		.78		.28		.87		.36		
26...	1730	--	50000			4.4		.100		.26		.130		.070		.25		.09		.38		.16		
SEP																								
03...	0845	--	6000			4.0		.070		.22		--		.080		--		.39		1.20		.47		
10...	1025	--	6000			3.3		.070		.29		--		.130		--		.51		.85		.64		
15...	0715	--	6000			2.7		.040		.37		--		.110		--		.22		.54		.33		
21...	1800	3.0	6000			2.2		.030		.69		--		.130		--		.62		.96		.75		
21...	1805	26.0	6000			2.7		.030		.51		--		.190		--		.04		.76		.23		
22...	0705	26.0	6000			2.8		.030		.57		--		.160		--		.37		.85		.53		
22...	0710	3.0	6000			2.6		.040		.73		--		.160		--		.29		1.00		.45		

01658710 -- POTOMAC RIVER AT QUANTICO, VA. --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DISS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
JUL 20...	.83	.126	.039	6.4	3.1	37.0	14.9	43.7	--	4.9	24
20...	.72	.090	.048	6.1	2.2	39.2	17.6	47.1	--	5.0	36
21...	.78	.077	.048	8.2	2.4	36.3	19.5	45.2	--	3.0	28
21...	.93	.151	.045	4.4	2.4	46.6	18.5	54.9	--	5.8	27
22...	.90	.179	.055	5.9	3.1	39.6	19.5	48.5	--	3.7	47
28...	.72	.139	.073	--	--	--	--	--	--	--	23
4 AUG 06...	.93	.134	.062	6.2	4.0	28.5	18.0	36.8	--	3.5	26
17...	.74	.131	.055	--	--	--	--	--	--	--	18
18...	.69	.152	.085	5.2	1.8	--	--	--	19	--	36
24...	.82	.120	.058	4.6	2.7	34.1	17.4	42.1	--	--	20
25...	.89	.133	.047	8.1	2.9	30.8	17.9	39.0	--	--	25
25...	.85	.121	.064	14	3.3	36.0	15.0	42.8	--	4.2	20
26...	.64	.159	.051	4.4	4.3	32.8	18.9	41.5	--	--	27
26...	.42	.057	.071	5.9	2.0	23.2	16.4	30.8	--	4.3	27
SEP 03...	.69	.134	.047	--	--	--	--	--	--	--	34
10...	.93	.082	.050	--	--	--	--	--	--	--	29
16...	.70	.172	.056	--	--	--	--	--	--	--	41
21...	1.4	.197	.050	6.0	--	--	--	--	--	--	77
21...	.74	.197	.068	6.2	--	14.1	33.7	30.2	--	--	47
22...	1.1	.237	.070	4.3	--	19.3	55.2	45.8	--	--	93
22...	1.2	.185	.062	4.3	--	--	--	--	--	--	72

382640077159900 - POTOMAC RIVER AT DOUGLAS POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMP- SECTION (FT FM L BANK)	(00009)	SILICA, DIS- SOLVED (MG/LI AS SIO2)	(00955)	NITRO- GEN, NITRITE DISED (MG/LI AS N)	(00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/LI AS N)	(00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/LI AS N)	(00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/LI AS N)	(00607)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/LI AS N)	(00625)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/LI AS N)	(00623)	
OCT																				
	1535	3.0	2000			3.3		.010		.44		.040		.42		.52		.46		
	1540	20.0	2000			3.5		.020		.44		.040		.17		.38		.21		
	1605	--	11700			3.0		.020		.44		.020		.27		.71		.29		
NOV																				
	1845	2.0	2000			2.0		.010		.91		.130		.29		.44		.42		
	1850	17.0	2000			2.2		.010		.62		.100		.23		.55		.33		
	0840	2.0	2000			1.9		.020		.93		.140		.44		.63		.58		
	0845	21.0	2000			2.1		.010		.77		.120		.48		.61		.60		
	0900	--	11700			1.9		.020		1.0		.150		.38		.77		.53		
DEC																				
	1620	2.0	2000			.5		.020		1.3		.050		.22		.53		.27		
	1625	15.0	2000			.4		.010		1.2		.010		.26		.45		.27		
	1640	--	11700			.2		.020		1.3		.000		.24		.53		.24		
FEB																				
	1400	2.0	2000			1.6		.020		1.5		.210		.24		.90		.45		
	1405	26.0	2000			1.4		.020		1.4		.140		.30		.70		.44		
	1420	--	11700			1.6		<.010		.01		.060		.42		.76		.48		
MAR																				
	0300	3.0	2000			3.6		.030		1.9		.390		.12		.81		.51		
	0303	20.0	2000			3.5		.030		2.0		.380		.04		.78		.42		
	0300	--	11700			4.0		.030		2.0		.370		.28		.84		.65		
APR																				
	1300	23.0	2000			4.5		.040		1.9		.450		.00		.61		.43		
	1305	2.0	2000			4.2		.040		1.9		.480		.00		.83		.20		
	1330	--	11700			5.0		.040		1.9		.390		.21		.52		.60		
MAY																				
	1250	20.0	2000			1.0		<.010		.01		.050		.23		.53		.28		
	1255	2.0	2000			1.0		.020		1.1		.080		.47		.73		.55		
	1320	--	11700			.4		<.010		.01		.030		.43		.91		.46		
JUN																				
	1535	2.0	2000			4.6		<.010		.72		<.010		--		.75		.42		
	1540	24.0	2000			4.5		<.010		.68		.030		.39		1.20		.42		
	1615	--	11700			4.2		<.010		.23		<.010		--		1.20		.33		
JUL																				
	2025	3.0	2000			3.3		<.010		.31		.010		.42		.99		.43		
	2030	25.0	2000			3.4		<.010		.26		.050		.24		.63		.29		
	0755	3.0	2000			3.5		<.010		.29		.030		.46		.76		.49		
	0800	25.0	2000			3.5		<.010		.25		.030		.25		.78		.28		
	0815	--	11700			3.3		<.010		.30		.070		.78		.95		.85		
AUG																				
	1700	3.0	2000			4.1		.050		.31		.050		.24		.71		.29		

382640077159900 - POTOMAC RIVER AT DOUGLAS POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD UNCORR. (UG/L) (32213)	CHLORO- PHYLL A FLOURO- METRIC METHOD (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADEN- OSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT											
21...	.90	.073	.046	4.9	--	--	--	--	--	--	12
21...	.65	.104	.054	5.1	--	13.0	8.6	17.0	--	--	46
21...	.73	.086	.028	4.9	--	27.8	13.1	33.7	--	--	27
NOV											
17...	1.3	.048	.037	--	--	10.2	4.6	12.3	--	--	5
17...	.95	.083	.105	--	--	12.9	5.1	15.2	--	--	9
18...	1.5	.057	.031	--	--	12.6	7.3	15.9	--	--	9
18...	1.4	.063	.031	--	--	9.8	8.3	13.6	--	--	9
18...	1.5	.071	.027	--	--	--	--	--	--	--	17
DEC											
15...	1.6	.065	.023	--	--	67.3	11.1	71.7	--	--	16
15...	1.5	.058	.023	--	--	37.8	8.0	41.1	--	--	17
15...	1.5	.111	.003	--	--	--	--	--	--	--	26
FEB											
04...	2.0	.077	.004	--	--	50.4	2.6	50.9	--	--	13
04...	1.8	.049	.008	--	--	31.9	5.9	34.4	--	--	9
04...	.49	.056	.006	--	--	--	--	--	--	--	9
MAR											
03...	2.4	.110	.055	--	--	10.0	10.9	15.1	--	3.7	18
03...	2.4	.111	.053	--	--	9.7	7.6	13.2	--	1.7	18
03...	2.7	.104	.057	--	--	--	--	--	--	--	22
APR											
15...	2.3	.088	.042	--	--	7.5	20.1	17.1	--	--	88
15...	2.1	.100	.043	--	--	8.6	19.2	17.8	--	--	82
15...	2.5	.132	.043	--	--	--	--	--	--	--	36
MAY											
19...	.29	.018	.004	--	--	20.9	23.1	31.8	--	--	58
19...	1.7	.136	.034	--	--	34.5	23.2	45.3	--	--	47
19...	.47	.173	.020	--	--	--	--	--	--	--	65
JUN											
30...	1.1	.117	.054	--	--	42.4	11.0	47.1	--	--	22
30...	1.1	.229	.074	--	--	17.8	33.2	33.6	--	--	114
30...	.56	.189	.052	--	--	--	--	--	--	--	61
JUL											
27...	.74	.147	.053	--	--	--	--	--	--	--	43
27...	.55	.200	.047	--	--	--	--	--	--	--	31
28...	.78	.139	.043	--	--	--	--	--	--	--	18
28...	.53	.156	.048	--	--	23.3	16.4	30.9	--	--	38
28...	1.2	.204	.113	--	--	--	--	--	--	--	57
AUG											
17...	.60	.122	.076	--	--	--	--	--	--	--	10

APPENDIX A-1
 382640077159900 - POTOMAC RIVER AT DOUGLAS POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMP- DEPTH (FT)	LOC- TION, CROSS SECTION (FT FM L BANK)	SILICA, DIS- SOLVED AS SID2)	NITRO- GEN, NITRITE DIS- SOLVED AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED AS N)	NITRO- GEN, AMMONIA TOTAL AS N)								
AUG	1705	24.0	2000		4.4	.080	.30									
17...	1725	--	11700		4.1	.040	.32									
SEP																
21...	1730	3.0	2000		3.6	.040	.43									
21...	1735	20.0	2000		4.0	.070	.53									
21...	1745	--	11700		3.6	.040	.43									

APPENDIX A-1

392640077159900 - POTOMAC RIVER AT DOUGLAS POINT ---Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DISE- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DISE- SOLVED (MG/L AS P) (00566)	CARRON, ORGANIC TOTAL (MG/L AS C) (00680)	CARRON, ORGANIC DISE- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A, FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
AUG 17....	.72	.139	.073	--	--	9.3	18.8	18.3	--	--	22
AUG 17....	.86	.179	.084	--	--	--	--	--	--	--	36
SEP 21....	1.1	.122	.083	3.0	--	6.7	18.3	15.5	--	--	16
SEP 21....	1.0	.151	.098	3.3	--	--	--	--	--	--	41
SEP 21....	1.1	.135	.080	3.7	--	--	--	--	--	--	29

382233077102000 - POTOMAC RIVER AT STUART WHARF
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- SECTION (FT FM L BANK)	SILICA, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L)	NITRO- GEN, NITRO- AMMONIA TOTAL (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L)	NITRO- GEN, ORGANIC TOTAL (MG/L)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L)	NITRO- GEN, AM- MONIA ORGANIC TOTAL (MG/L)	NITRO- GEN, AM- MONIA ORGANIC DIS- SOLVED (MG/L)
(00003)	(00009)	(00955)	(00613)	(00631)	(00610)	(00608)	(00605)	(00607)	(00625)	(00623)	
OCT	1640	3.0	3600	4.0	.020	.26	.080	.16	.52	.24	
21...	1645	16.0	3600	3.8	.020	.17	.090	.16	.61	.25	
NOV	1800	2.0	3600	2.0	.010	.35	.060	.22	.53	.28	
17...	1805	25.0	3600	1.7	.000	.19	.040	.04	.25	.08	
DEC	1535	2.0	3600	.4	.010	.62	.050	.07	.34	.12	
15...	1540	20.0	3600	.3	.010	.45	.080	.11	.12	.19	
FEB	1500	2.0	3600	.8	.010	.84	.040	.32	.65	.36	
04...	1505	20.0	3600	.5	.010	.70	.050	.24	.38	.29	
MAR	1740	2.0	3600	2.4	.020	1.6	.320	.15	.78	.47	
03...	1745	23.0	3600	.5	.010	.52	.110	.09	.89	.20	
18...	1015	2.0	3600	3.1	.020	1.2	.330	.08	.61	.41	
18...	1020	22.0	3600	2.7	.020	1.1	.320	.00	.97	.26	
APR	1410	2.0	3600	5.0	.040	1.9	.350	.02	.66	.37	
15...	1415	23.0	3500	5.0	.040	1.8	.330	.00	.44	.28	
MAY	1400	2.0	3600	1.5	<.010	.82	.090	.26	.76	.35	
19...	1405	26.0	3600	1.4	.060	.82	.110	.31	.79	.42	
JUN	1715	2.0	3600	4.2	.010	.38	.130	.57	.84	.70	
30...	1720	24.0	3600	4.2	.010	.33	.130	.58	.81	.71	
JUL	1925	3.0	3600	3.6	<.010	.28	.080	.22	.58	.30	
27...	1930	26.0	3600	3.9	.020	.14	.220	.18	.51	.40	
AUG	1620	3.0	3600	4.9	.180	.32	.080	.60	.66	.68	
17...	1625	26.0	3500	5.0	.210	.33	.050	.27	.59	.32	
SEP	1630	22.0	3600	4.7	.160	.41	.020	.60	.50	.62	
21...	1635	3.0	3600	4.8	.140	.40	.010	.48	.48	.49	

APPENDIX A-1
 382233077102000 - POTOMAC RIVER AT STUART WHARF --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DISE- SOLVED (MG/L) AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L) AS P) (00665)	PHOS- PHORUS, DISE- SOLVED (MG/L) AS P) (00566)	CARBON, ORGANIC TOTAL (MG/L) AS C) (00580)	CARBON, ORGANIC DIS- SOLVED (MG/L) AS C) (00681)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLURO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT 21...	.50	.062	.051	3.8	--	4.0	20.0	13.7	--	--	4
OCT 21...	.42	.284	.058	5.4	--	--	--	--	--	--	87
NOV 17...	.63	.058	.039	--	--	9.1	5.0	11.4	--	--	9
NOV 17...	.27	.102	.035	--	--	10.0	11.6	15.5	--	--	33
DEC 15...	.74	.064	.021	--	--	14.4	10.0	19.0	--	--	13
DEC 15...	.64	.104	.021	--	--	12.9	9.1	17.1	--	--	30
FEB 04...	1.2	.060	.009	--	--	34.1	4.8	35.9	--	--	15
FEB 04...	.99	.155	.005	--	--	34.1	13.5	52.8	--	--	86
MAR 03...	2.1	.089	.027	--	--	35.0	5.6	37.2	--	5.8	14
MAR 03...	.72	.110	.015	--	--	73.2	15.8	79.8	--	18	15
MAR 18...	1.6	.149	.029	--	--	21.3	8.6	25.2	--	--	25
MAR 18...	1.4	.179	.027	--	--	20.6	25.7	32.8	--	--	68
APR 15...	2.3	.070	.049	--	--	5.5	10.8	10.6	--	--	--
APR 15...	2.1	.102	.051	--	--	7.4	16.3	15.1	--	--	53
MAY 19...	1.2	.119	.031	--	--	37.4	12.4	42.8	--	--	33
MAY 19...	1.4	.160	.033	--	--	17.2	21.4	27.3	--	--	63
JUN 30...	1.1	.121	.076	--	--	15.5	6.0	18.2	--	--	29
JUN 30...	1.0	.139	.080	--	--	6.8	18.3	15.6	--	--	50
JUL 27...	.58	.100	.067	--	--	11.1	25.5	23.3	--	--	20
JUL 27...	.54	.118	.073	--	--	--	--	--	--	--	29
AUG 17...	1.0	.125	.086	--	--	5.8	21.1	16.0	--	--	20
AUG 17...	.65	.155	.108	--	--	--	--	--	--	--	43
SEP 21...	1.0	.153	.087	2.8	--	3.7	9.4	8.2	--	--	43
SEP 21...	.89	.124	.089	3.3	--	--	--	--	--	--	27

APPENDIX A-1

01660800 - POTOMAC R NR MORGANTOWN, MD

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SILICA, DIS- SOLVED (MG/L) AS SI02)	(00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N)	(00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N)	(00631)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N)	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N)	(00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N)	(00605)	NITRO- GEN, ORGANIC TOTAL (MG/L) AS N)	(00625)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N)	(00607)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N)	(00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L) AS N)	(00623)	
OCT																										
01...	1800	3.0		1500		5.0		.150		.29		.010		.030		.38		.25		.39		.28		.28		.28
01...	1905	59.0		1500		4.8		.140		.28		.030		.040		.37		.25		.40		.29		.29		.29
09...	1120	3.0		1500		4.8		.090		.26		--		.050		--		.15		.46		.20		.46		.20
09...	1125	65.0		1500		4.7		.080		.22		--		.050		--		.16		.49		.21		.49		.21
14...	1530	3.0		1500		4.3		.050		.28		--		.030		--		.25		.50		.28		.50		.28
14...	1535	70.0		1500		4.0		.030		.17		--		.020		--		.19		.29		.21		.29		.21
21...	1735	2.0		1500		3.4		.020		.12		--		.030		--		.15		.42		.18		.42		.18
21...	1740	67.0		1500		2.9		.010		.05		--		.090		--		.16		.35		.25		.35		.25
27...	1315	3.0		1500		--		.010		.17		--		.130		--		.15		.58		.28		.58		.28
27...	1320	52.0		1500		--		.010		.27		--		.100		--		.30		.70		.40		.70		.40
NOV																										
05...	1600	57.0		1500		--		.010		.07		--		.070		--		.17		.40		.24		.40		.24
05...	1605	2.0		1500		--		.010		.17		--		.090		--		.25		.35		.34		.35		.34
13...	0720	2.0		1500		.9		.010		.03		--		.050		--		.11		.24		.16		.24		.16
13...	0725	67.0		1500		2.0		.010		1.6		--		.090		--		.10		.24		.19		.24		.19
17...	1705	2.0		1500		1.4		.000		.09		--		.000		--		.01		.44		.01		.44		.01
17...	1710	61.0		1500		.9		.000		.02		--		.020		--		.00		.36		.02		.36		.02
28...	1430	70.0		1500		.3		.000		.05		--		.000		--		.06		.13		.06		.13		.06
28...	1440	3.0		1500		1.1		.010		.26		--		.030		--		.12		.16		.15		.16		.15
DEC																										
04...	1340	60.0		1500		.5		.010		.23		--		.040		--		.15		.11		.19		.11		.19
04...	1345	3.0		1500		.8		.010		.36		--		.030		--		.06		.30		.09		.30		.09
09...	1620	2.0		1500		.4		.010		.32		--		.000		--		.11		.08		.11		.08		.11
09...	1625	61.0		1500		.2		.010		.05		--		.010		--		.00		.07		.01		.07		.01
15...	1435	2.0		1500		.2		.010		.23		--		.010		--		.31		.31		.32		.31		.32
15...	1440	68.0		1500		.2		.010		.10		--		.050		--		.15		.07		.20		.07		.20
JAN																										
02...	1410	3.0		1500		.2		.010		.35		--		.010		--		.18		.29		.19		.29		.19
02...	1420	69.0		1500		.1		.010		.07		--		.050		--		.13		.27		.18		.27		.18
22...	0910	2.0		1500		--		<.010		.22		--		.010		--		.20		.16		.21		.16		.21
22...	0915	60.0		1500		.1		<.010		.19		--		.020		--		.08		.18		.10		.18		.10
FEB																										
04...	1610	2.0		1500		.3		<.010		.47		--		<.010		--		--		.15		.14		.15		.14
04...	1615	72.0		1500		.0		<.010		.26		--		.190		--		.09		.31		.28		.31		.28
13...	1200	58.0		1500		.1		<.010		.36		--		.010		--		--		.10		<.10		.10		<.10
13...	1210	3.0		1500		.3		<.010		.49		--		<.010		--		--		.34		<.10		.34		<.10
19...	1345	57.0		1500		.1		<.010		.21		--		.010		--		--		.58		<.10		.58		<.10
19...	1355	3.0		1500		.5		<.010		.56		--		<.010		--		--		.40		<.10		.40		<.10
25...	1630	59.0		1500		--		<.010		.37		--		.040		--		.39		.65		.25		.65		.25
26...	1640	3.0		1500		--		.020		1.5		--		.210		--		.12		.74		.43		.74		.43

APPENDIX A-1

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/LI AS P) (00665)	PHOS- PHORUS, DISS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/LI AS C) (00680)	CARBON, ORGANIC DISS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLURO- METRIC METHOD UNCORR. (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT 01	.57	.105	.085	--	--	7.0	3.4	8.6	--	--	9
01	.57	.107	.085	--	--	2.8	5.9	5.6	--	--	24
09	.46	.091	.068	--	--	7.5	3.5	9.1	--	--	2
03	.43	.126	.066	--	--	5.8	10.0	10.6	--	--	44
14	.56	.059	.053	--	--	12.2	3.3	13.6	--	--	5
14	.38	.058	.042	--	--	6.2	3.8	7.9	--	--	9
21	.30	.053	.044	4.9	--	25.7	3.5	27.0	--	--	3
21	.30	.056	.034	4.8	--	8.2	4.2	10.2	--	--	20
27	.45	.130	.049	--	--	6.8	11.4	12.2	--	--	43
27	.67	.075	.057	--	--	6.0	2.7	7.2	--	--	9
NOV 05	.31	.053	.024	--	--	8.6	8.9	12.8	--	--	11
05	.51	.070	.061	--	--	11.4	2.6	12.5	--	--	3
13	.19	.075	.018	--	--	18.9	2.5	19.8	--	--	4
13	1.8	.053	.038	--	--	26.7	14.5	33.3	--	--	29
17	.10	.042	.022	--	--	15.0	4.6	17.0	--	--	3
17	.04	.054	.023	--	--	14.3	7.3	17.6	--	--	12
28	.11	.066	.012	--	--	38.8	8.1	42.2	--	--	18
28	.41	.054	.020	--	--	34.5	.5	33.8	--	--	34
DEC 04	.42	.083	.013	--	--	23.1	7.3	26.3	--	--	24
04	.45	.047	.009	--	--	26.1	3.3	27.3	--	--	12
09	.43	.046	.011	--	--	10.5	3.2	11.9	--	--	9
09	.06	.095	.013	--	--	13.0	10.0	17.6	--	--	31
15	.55	.038	.019	--	--	24.3	6.0	26.9	--	--	8
15	.30	.085	.061	--	--	24.0	13.1	30.0	--	--	10
JAN 02	.54	.048	.019	--	--	16.2	4.1	18.0	--	--	3
02	.25	.113	.062	--	--	27.2	13.4	33.4	--	--	45
22	.43	.051	.021	--	--	17.3	2.4	18.3	--	--	7
22	.29	.056	.020	--	--	27.2	4.0	28.7	--	--	6
FEB 04	.61	.035	.006	--	--	24.7	2.6	25.6	--	--	6
04	.54	.075	.005	--	--	28.6	5.9	31.0	--	--	25
13	--	.018	.008	--	--	14.5	13.5	20.8	--	--	11
13	--	.047	.007	--	--	4.4	4.2	6.3	--	--	5
19	--	.089	.008	--	--	50.6	19.2	59.1	--	--	30
19	.81	.080	.010	--	--	45.6	2.6	46.2	--	--	3
26	.80	.064	.055	--	--	73.8	6.1	75.6	--	--	6
26	1.8	.054	.026	--	--	51.7	5.8	53.8	--	--	7

APPENDIX A-1

01660800 -- POTOMAC R NR MORGANTOWN, MD ---Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (000003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM LI BANK) (000009)	SILICA, DIS- SOLVED (MG/LI AS SI02) (00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/LI AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/LI AS N) (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/LI AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/LI AS N) (00623)
MAR												
03...	1630	3.0	1500	1.4	.020	1.1	.160	.150	.39	.17	.55	.32
03...	1635	70.0	1500	.2	.010	.31	.040	.040	.38	.10	.42	.14
09...	1145	3.0	1500	1.0	.010	.70	--	.070	--	.20	.89	.27
09...	1150	57.0	1500	.7	.010	.51	--	.070	--	.30	1.10	.37
18...	1050	2.0	1500	2.1	.020	.88	--	.190	--	.06	.50	.25
18...	1055	72.0	1500	1.1	.010	.58	--	.090	--	.22	.56	.31
26...	1445	3.0	1500	2.2	.020	.79	--	.180	--	.29	.65	.47
26...	1455	61.0	1500	1.1	.020	.49	--	.050	--	.20	.87	.25
APR												
02...	1900	56.0	1500	1.6	.020	.53	--	.190	--	.39	.95	.58
02...	1910	3.0	1500	2.3	.020	.76	--	.280	--	.39	1.30	.67
07...	1220	63.0	1500	2.3	.020	.65	--	.320	--	.31	1.20	.63
07...	1230	3.0	1500	3.2	.030	.94	--	.330	--	.30	.87	.63
15...	1510	2.0	1500	4.7	.040	1.3	--	.400	--	.00	.65	.39
15...	1515	68.0	1500	2.4	.030	.63	--	.300	--	.00	.61	.30
23...	1325	3.0	1500	3.5	.020	.51	--	.160	--	.46	.79	.62
23...	1330	62.0	1500	1.6	.030	.45	--	.130	--	.27	1.00	.40
30...	1330	2.0	1500	1.7	.030	.72	--	.040	--	.26	.69	.30
30...	1340	59.0	1500	.6	.020	.22	--	.220	--	.15	.90	.37
MAY												
04...	1350	3.0	1500	1.6	.020	.59	--	.070	--	.23	.82	.30
04...	1355	69.0	1500	.9	.020	.37	--	.070	--	.28	.81	.35
11...	1220	58.0	1500	.7	.020	.33	--	.100	--	.64	.85	.74
12...	1230	2.0	1500	.5	.020	.36	--	.050	--	.56	.95	.61
19...	1455	78.0	1500	.3	.210	.19	--	.110	--	.27	.72	.38
19...	1500	2.0	1500	.4	.020	.58	--	.320	--	.02	.76	.34
28...	1335	57.0	1500	1.5	<.010	.13	--	.100	--	.44	.73	.54
28...	1345	2.0	1500	1.4	.010	.27	--	.040	--	.36	.70	.40
JUN												
01...	1420	79.0	1500	.5	.010	.10	--	.100	--	.49	.83	.59
01...	1430	2.0	1500	2.1	.010	.39	--	.080	--	.34	.69	.42
09...	1122	64.0	1500	2.6	.010	.11	--	.190	--	.42	.63	.61
09...	1125	2.0	1500	2.7	.010	.28	--	.040	--	.32	1.20	.36
15...	1440	56.0	1500	2.6	<.010	.01	--	.200	--	.14	--	.34
15...	1450	2.0	1500	3.8	.010	.42	--	.030	--	.22	1.10	.25
25...	1130	58.0	1500	--	<.010	.01	--	.430	--	.35	.80	.78
25...	1140	2.0	1500	3.7	.020	.15	--	.030	--	.38	.81	.41
30...	1900	2.0	1500	3.7	<.010	.10	--	.050	--	.36	.79	.41
30...	1910	68.0	1500	3.4	<.010	.03	--	.140	--	.28	.81	.42
JUL												
07...	1620	59.0	1500	4.1	<.010	.07	--	.220	--	.48	.87	.70

APPENDIX A-1

01660800 - POTOMAC R NR MORGANTOWN, MD --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DISE- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISE- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLURO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
MAR 03...	1.4	.064	.011	--	--	48.2	2.6	48.8	--	10	5
MAR 03...	.45	.079	.017	--	--	99.6	15.8	106	--	--	5
MAR 09...	.97	.066	.015	--	--	44.5	5.1	46.4	--	--	9
MAR 09...	.88	.057	.016	--	--	57.4	10.6	61.7	--	--	26
MAR 18...	1.1	.086	.017	--	--	35.9	6.7	38.6	--	--	17
MAR 18...	.89	.085	.013	--	--	41.1	6.7	43.8	--	--	14
MAR 26...	1.3	.056	.027	--	--	17.3	2.9	18.4	--	--	9
MAR 26...	.74	.053	.020	--	--	27.4	6.2	30.0	--	--	12
APR 02...	1.1	.058	.009	--	--	12.0	11.1	17.2	--	--	20
APR 02...	1.4	.056	.021	--	--	4.8	4.5	6.9	--	--	10
APR 07...	1.3	.177	.031	--	--	5.7	42.2	26.0	--	--	104
APR 07...	1.6	.079	.036	--	--	4.9	6.7	8.1	--	--	29
APR 15...	1.7	.075	.050	--	--	2.1	5.3	4.6	--	--	20
APR 15...	.93	.059	.029	--	--	11.2	18.0	19.8	--	--	52
APR 23...	1.1	.077	.021	--	--	32.7	7.3	35.8	--	--	14
APR 23...	.85	.094	.005	--	--	65.0	23.6	75.5	--	--	39
APR 30...	1.0	.056	.002	--	--	52.5	4.9	54.1	--	--	10
APR 30...	.59	.096	.003	--	--	96.2	40.1	114	--	--	44
MAY 04...	.89	.070	.010	--	--	47.4	7.6	50.4	--	--	18
MAY 04...	.72	.052	.004	--	--	62.3	11.4	66.9	--	--	24
MAY 11...	1.1	.055	.001	--	--	20.0	8.7	23.9	--	--	25
MAY 11...	.97	.060	<.001	--	--	39.4	11.5	44.4	--	--	11
MAY 19...	.57	.064	.008	--	--	33.8	15.7	41.0	--	--	13
MAY 19...	.92	.053	<.001	--	--	44.2	12.2	49.4	--	--	11
MAY 28...	.67	.042	.012	--	--	6.1	3.1	7.5	--	--	6
MAY 28...	.67	.048	.016	--	--	92.7	6.2	94.4	--	--	7
JUN 01...	.69	.042	.036	--	--	21.8	3.5	23.1	--	--	8
JUN 01...	.81	.095	.022	--	--	46.2	5.5	48.2	--	--	14
JUN 09...	.72	.061	.039	--	--	2.4	3.4	4.0	--	--	6
JUN 09...	.64	.116	.014	--	--	71.1	10.1	75.0	--	--	8
JUN 15...	.35	<.001	--	--	--	2.6	5.9	5.5	--	--	11
JUN 15...	.67	.156	.056	--	--	20.9	5.0	23.0	--	--	9
JUN 25...	.79	.191	.167	--	--	2.9	5.7	5.6	--	--	15
JUN 25...	.56	.112	.043	--	--	260	-23.0	245	--	--	8
JUN 30...	.51	.103	.064	--	--	28.6	5.3	30.8	--	--	9
JUN 30...	.45	.141	.081	--	--	17.4	7.3	20.7	--	--	28
JUL 07...	.77	.093	.050	--	--	6.1	32.5	21.8	--	--	18

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (000003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (000009)	SILICA, DIS- SOLVED (MG/LI AS SI02) (00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, N02+N03 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, AM- MONIA ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AM- MONIA ORGANIC DIS- SOLVED (MG/L AS N) (00623)
JUL 07...	1630	2.0	1500	4.5	.010	.28	--	.110	--	.48	.80	.59
15...	1315	2.0	1500	3.7	<.010	.06	--	.020	--	.14	.38	.16
15...	1320	78.0	1500	3.2	<.010	<.01	--	.100	--	.26	.54	.36
24...	1045	63.0	1500	3.6	<.010	.03	--	.050	--	.38	.55	.43
24...	1055	2.0	1500	3.7	<.010	.05	--	.040	--	.32	.55	.36
27...	1830	1.6	1500	4.2	<.010	.09	--	.090	--	.52	.70	.61
27...	1835	67.0	1500	3.9	<.010	.04	--	.170	--	.00	.95	.14
AUG 07...	1100	2.0	1500	4.4	<.010	.09	--	.080	--	.27	.55	.35
07...	1110	57.0	1500	4.0	<.010	.01	--	.070	--	.33	.59	.40
14...	1145	56.0	1500	4.2	.030	.04	--	.100	--	.25	.41	.35
14...	1155	2.0	1500	4.7	.090	.16	--	.030	--	.29	.59	.32
17...	1530	3.0	1500	4.6	.120	.17	--	.060	--	.24	.51	.30
17...	1535	70.0	1500	4.4	.080	.10	--	.070	--	.27	.50	.34
28...	1020	55.0	1500	5.1	.150	.37	--	.100	--	.39	.37	.49
28...	1030	3.0	1500	5.0	.170	.40	--	.040	--	.51	.51	.95
SEP 02...	1530	59.0	1500	4.6	.180	.43	--	.030	--	.42	--	.45
02...	1540	3.0	1500	4.7	.180	.43	--	.020	--	.42	.51	.44
10...	1220	3.0	1500	4.7	.160	.38	--	<.010	--	--	.42	.36
10...	1225	57.0	1500	4.1	.100	.24	--	.080	--	.45	.60	.53
17...	1350	3.0	1500	4.3	.140	.37	--	.010	--	--	.38	.10
17...	1400	62.0	1500	3.5	.110	.29	--	.130	--	.04	.38	.17
21...	1550	3.0	1500	4.2	.150	.38	--	.030	--	.43	.47	.46
21...	1555	67.0	1500	3.9	.150	.35	--	.040	--	.48	.44	.52

01660800 - POTOMAC R NR MORGANTOWN, MD ---Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DISE- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00565)	PHOS- PHORUS, DISE- SOLVED (MG/L AS P) (00566)	CARBON, ORGANIC TOTAL (MG/L AS C) (00580)	CARBON, ORGANIC DISE- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLOJRO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
JUL 07...	.87	.103	.060	--	--	22.4	3.8	23.8	--	--	15
15...	.22	.094	.028	--	--	27.6	5.2	29.8	--	--	13
15...	--	.144	.105	--	--	2.5	5.5	5.2	--	--	16
24...	.46	.125	<.001	--	--	8.5	11.5	13.9	--	--	30
24...	.41	.114	<.001	--	--	83.0	4.6	84.0	--	--	10
27...	.70	.098	.049	--	--	13.7	4.1	15.5	--	--	9
27...	.18	.158	.058	--	--	4.2	12.4	10.2	--	--	9
AUG 07...	.44	.096	.061	--	--	11.2	5.5	13.8	--	--	13
07...	.41	.074	.046	--	--	1.4	4.5	3.6	--	--	9
14...	.39	.109	.096	--	--	1.6	5.9	4.5	--	--	8
14...	.48	.095	.065	--	--	18.1	4.8	20.2	--	--	11
17...	.47	.111	.086	--	--	--	--	--	--	--	14
17...	.44	.152	.097	--	--	4.6	10.5	9.6	--	--	42
28...	.85	.110	.073	--	--	4.3	7.1	7.7	--	--	28
28...	.95	.110	.080	--	--	--	--	--	--	--	15
SEP 02...	.89	--	.060	--	--	3.4	5.2	5.9	--	--	20
02...	.87	.094	.077	--	--	--	--	--	--	--	14
10...	.74	.072	.072	--	--	--	--	--	--	--	11
10...	.77	.057	.054	--	--	2.7	16.2	10.5	--	--	31
17...	--	.082	.062	--	--	--	--	--	--	--	13
17...	.46	.055	.048	--	--	2.6	5.1	5.1	--	--	15
21...	.84	.091	.073	2.7	--	--	--	--	--	--	15
21...	.87	.090	.070	2.0	--	3.0	4.3	5.0	--	--	15

APPENDIX A-1

381516076503000 - POTOMAC RIVER AT COBB ISLAND
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION, (FT FM L BANK)	(00009)	SILICA, DIS- SOLVED (MG/LI AS SI02)	(00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	(00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/LI AS N)	(00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	(00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	(00607)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	(00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS- (MG/L AS N)	(00623)	
OCT																						
21...	1840	2.0	6600			2.7	.000	.000	.01	.03	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030
21...	1845	23.0	6600			1.4	.010	.010	.03	.04	.090	.090	.090	.090	.090	.090	.090	.090	.090	.090	.090	.090
22...	0820	2.0	6600			2.9	.000	.000	.02	.07	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22...	0825	18.0	6600			1.6	.010	.010	.02	.07	.040	.040	.040	.040	.040	.040	.040	.040	.040	.040	.040	.040
22...	0845	2.0	20100			3.0	.010	.010	.00	.01	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030
22...	0850	20.0	20100			2.3	.010	.010	.00	.01	.040	.040	.040	.040	.040	.040	.040	.040	.040	.040	.040	.040
NOV																						
17...	1540	2.0	6600			1.2	.000	.000	.03	.04	.010	.010	.010	.010	.010	.010	.010	.010	.010	.010	.010	.010
17...	1545	21.0	6600			.7	.010	.010	.04	.07	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030
17...	1605	2.0	20100			1.4	.000	.000	.01	.01	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
17...	1610	17.0	20100			1.2	.000	.000	.01	.01	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030
DEC																						
15...	1320	2.0	6600			.0	.020	.020	.09	.07	.050	.050	.050	.050	.050	.050	.050	.050	.050	.050	.050	.050
15...	1325	22.0	6600			.1	.010	.010	.07	.10	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060
15...	1350	2.0	20100			.0	.010	.010	.10	.10	.040	.040	.040	.040	.040	.040	.040	.040	.040	.040	.040	.040
15...	1355	15.0	20100			.1	.010	.010	.10	.10	.040	.040	.040	.040	.040	.040	.040	.040	.040	.040	.040	.040
JAN																						
22...	1110	2.0	6600			.0	<.010	<.010	.21	.08	<.010	<.010	<.010	<.010	<.010	<.010	<.010	<.010	<.010	<.010	<.010	<.010
22...	1115	24.0	6600			.0	<.010	<.010	.08	.21	<.010	<.010	<.010	<.010	<.010	<.010	<.010	<.010	<.010	<.010	<.010	<.010
22...	1125	2.0	20100			.0	<.010	<.010	.21	.14	<.010	<.010	<.010	<.010	<.010	<.010	<.010	<.010	<.010	<.010	<.010	<.010
22...	1130	15.0	20100			.1	<.010	<.010	.14	.13	<.010	<.010	<.010	<.010	<.010	<.010	<.010	<.010	<.010	<.010	<.010	<.010
FEB																						
04...	1715	18.0	20100			.1	<.010	<.010	.13	.13	.040	.040	.040	.040	.040	.040	.040	.040	.040	.040	.040	.040
04...	1720	2.0	20100			.1	<.010	<.010	.13	.13	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030
04...	1735	2.0	6600			.0	<.010	<.010	.13	.07	.050	.050	.050	.050	.050	.050	.050	.050	.050	.050	.050	.050
04...	1740	23.0	6600			.1	<.010	<.010	.07	.12	.040	.040	.040	.040	.040	.040	.040	.040	.040	.040	.040	.040
05...	0825	23.0	6600			.0	<.010	<.010	.12	.16	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030
05...	0830	2.0	6600			.0	<.010	<.010	.16	.12	.050	.050	.050	.050	.050	.050	.050	.050	.050	.050	.050	.050
MAR																						
03...	1445	3.0	6600			<.1	<.010	<.010	.12	.13	.050	.050	.050	.050	.050	.050	.050	.050	.050	.050	.050	.050
03...	1450	23.0	6600			.1	<.010	<.010	.13	.07	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030
03...	1510	3.0	20100			.5	.010	.010	.76	.63	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030
03...	1515	15.0	20100			.5	.010	.010	.63	.59	.050	.050	.050	.050	.050	.050	.050	.050	.050	.050	.050	.050
18...	1150	2.0	20100			.9	.010	.010	.59	.54	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060
18...	1155	18.0	20100			.8	.010	.010	.54	.37	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060
18...	1210	2.0	6600			.2	<.010	<.010	.37	.37	.010	.010	.010	.010	.010	.010	.010	.010	.010	.010	.010	.010
18...	1215	24.0	6600			.2	.010	.010	.37	.37	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030
APR																						
02...	1720	19.0	6600			.7	<.010	<.010	.29	.33	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030	.030
02...	1730	3.0	6600			.6	.010	.010	.33	.33	.020	.020	.020	.020	.020	.020	.020	.020	.020	.020	.020	.020

391516076503000 - POTOMAC RIVER AT COBB ISLAND --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLOJRO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT											
21....	.25	.027	.014	--	--	26.3	2.9	27.4	--	--	5
21....	.15	.035	.016	--	--	18.4	8.7	22.3	--	--	14
22....	.23	.042	.018	--	--	25.5	2.9	26.6	--	--	7
22....	.09	.038	.019	--	--	12.4	6.6	15.4	--	--	10
22....	.30	.046	.030	4.2	--	26.2	.8	26.2	--	--	9
22....	.27	.033	.025	3.7	--	13.5	6.0	16.2	--	--	8
NOV											
17....	.09	.038	.016	--	--	24.5	3.9	26.0	--	--	1
17....	.21	.036	.033	--	--	13.0	7.6	16.5	--	--	3
17....	.27	.042	.012	--	--	28.9	5.8	31.3	--	--	1
17....	.30	.040	.026	--	--	17.1	2.6	18.1	--	--	2
DEC											
15....	.31	.026	.028	--	--	19.6	3.2	20.9	--	--	4
15....	.32	.043	.021	--	--	31.5	4.0	33.0	--	--	4
15....	.29	.045	.030	--	--	28.8	4.6	30.7	--	--	8
15....	.31	.072	.016	--	--	32.6	3.6	33.9	--	--	22
JAN											
22....	.42	.032	.019	--	--	9.8	1.9	10.6	--	--	3
22....	.24	.052	.021	--	--	21.0	4.3	22.8	--	--	4
22....	.39	.035	.018	--	--	13.2	1.8	13.9	--	--	4
22....	.29	.045	.018	--	--	26.1	2.3	26.9	--	--	6
FEB											
04....	.35	.034	.007	--	--	35.4	5.2	37.4	--	--	6
04....	.47	.017	.006	--	--	15.9	2.8	17.0	--	--	6
04....	.21	.019	.006	--	--	19.1	2.6	20.1	--	--	4
04....	.33	.035	.011	--	--	27.1	4.1	28.7	--	--	--
05....	.41	.017	.007	--	--	27.5	2.7	28.4	--	--	5
05....	.40	.017	.008	--	--	16.9	2.4	17.8	--	--	4
MAR											
03....	.25	<.001	.017	--	--	15.6	2.2	16.4	--	5.6	3
03....	.24	.043	.015	--	--	26.4	9.8	30.8	--	5.2	10
03....	.99	.024	.010	--	--	23.6	3.5	24.9	--	6.4	4
03....	.85	.037	.015	--	--	63.0	9.1	66.5	--	5.7	7
18....	.92	.082	.018	--	--	48.1	3.5	49.2	--	--	11
18....	.74	.070	.016	--	--	45.0	5.5	47.0	--	--	37
18....	.62	.056	.023	--	--	29.5	4.4	31.2	--	--	8
18....	.55	.049	.017	--	--	29.0	4.8	31.0	--	--	8
APR											
02....	.70	.050	.011	--	--	38.2	2.6	39.0	--	--	5
02....	.69	.028	.005	--	--	30.7	2.0	31.2	--	--	5

APPENDIX A-1

381516076503000 - POTOMAC RIVER AT COBB ISLAND --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING SECTION (FT FM L BANK)	SILICA, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L)	NITRO- GEN, NO2+N3 DIS- SOLVED (MG/L)	NITRO- GEN, AMMONIA TOTAL (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L)	NITRO- GEN, ORGANIC TOTAL (MG/L)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L)	NITRO- GEN,AM- MONIA + ORGANIC DIS- (MG/L)
(000003)	(00009)	(00955)	(00613)	(00631)	(00610)	(00608)	(00605)	(00607)	(00625)	(00607)	(00625)	(00623)
APR 02...	1800	18.0	20100	1.3	.010	.45	---	.100	---	.44	.94	.54
02...	1810	3.0	20100	1.8	.020	.65	---	.140	---	.52	.84	.66
15...	1605	17.0	20100	2.0	.030	.55	---	.210	---	.05	.40	.26
15...	1610	2.0	20100	2.1	.030	.58	---	.220	---	.00	.39	.17
15...	1635	18.0	6600	.7	.020	.28	---	.070	---	---	.75	<.10
15...	1640	2.0	6600	1.5	.030	.47	---	.100	---	.20	.63	.30
16...	0740	2.0	6600	2.3	.030	.65	---	.240	---	.33	.73	.57
16...	0745	23.0	6600	.8	.020	.31	---	.070	---	.20	.70	.27
MAY 19...	1600	2.0	20100	.1	.020	.20	---	.070	---	.24	.61	.31
19...	1605	19.0	20100	.1	.020	.19	---	.060	---	.31	.70	.37
19...	1630	29.0	6600	.8	.010	.04	---	.150	---	.22	.35	.37
19...	1635	2.0	6600	<.1	.020	.22	---	.060	---	.20	.57	.26
20...	0725	2.0	6600	.1	.020	.21	---	.060	---	.26	.88	.32
20...	0730	30.0	6600	.7	.010	.04	---	.120	---	.30	.59	.42
JUN 01...	1345	29.0	6600	2.1	.010	.02	---	.090	---	.37	.54	.46
01...	1355	2.0	6600	1.9	.010	.14	---	.020	---	.34	.51	.36
30...	2020	2.0	6600	3.6	<.010	.01	---	.010	---	---	.68	.28
30...	2025	24.0	6600	2.6	<.010	.02	---	.230	---	.22	.56	.45
JUL 01...	1005	2.0	6600	3.3	<.010	.01	---	.010	---	.25	3.40	.26
01...	1015	24.0	6600	3.4	<.010	.01	---	<.010	---	---	1.30	.32
01...	1035	2.0	20100	3.6	.010	.02	---	.030	---	.36	.73	.39
01...	1040	22.0	20100	3.6	.010	.02	---	.010	---	.32	.68	.33
15...	1100	2.0	6600	3.6	<.010	<.01	---	.010	---	.24	.66	.25
15...	1105	23.0	6600	2.1	<.010	.01	---	.100	---	.11	.50	.21
15...	1110	2.0	20100	3.5	<.010	.01	---	.010	---	.01	.46	.11
15...	1115	18.0	20100	3.5	<.010	.03	---	.020	---	.33	.51	.35
27...	1710	3.0	6600	3.4	<.010	.03	---	.050	---	.20	.56	.25
27...	1715	22.0	6600	3.5	---	.02	---	.200	---	.11	.39	.31
27...	1735	3.0	20100	3.5	<.010	.01	---	.050	---	.84	1.30	.89
27...	1740	16.0	20100	3.6	<.010	.02	---	.040	---	.59	.66	.63
AUG 17...	1425	3.0	20100	4.5	<.010	.01	---	.030	---	.22	.69	.25
17...	1430	16.0	20100	4.5	<.010	.01	---	.030	---	.19	.64	.22
19...	0740	3.0	6600	4.2	<.010	.10	---	.080	---	.12	.36	.20
19...	0745	27.0	6600	3.6	<.010	.04	---	.050	---	.16	.30	.21
SEP 21...	1430	23.0	6600	2.6	.060	.14	---	.120	---	.28	.51	.40

APPENDIX A-1

381516076503000 - POTOMAC RIVER AT COBR ISLAND --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITROGEN SOLVED (MG/L) AS N	PHOSPHORUS TOTAL (MG/L) AS P	PHOSPHORUS SOLVED (MG/L) AS P	CARBON, ORGANIC TOTAL (MG/L) AS C	CARBON, ORGANIC SOLVED (MG/L) AS C	CARBON, ORGANIC DIS- SOLVED (MG/L) AS C	CHLORO- PHYLL A METRIC METHOD CORR. (UG/L)	CHLORO- PHYLL A METRIC METHOD (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLOURO- METRIC METHOD (UG/L)	ALGAL GROWTH POTEN- TIAL (MG/L)	ADENOSINE TRIPHOS- PHATE (ATP) (UG/L)	SEDIMENT, SUSPENDED (MG/L)
APR 02	.99	.048	.008	--	--	--	22.9	7.7	26.2	--	--	--	5
02	1.3	.039	.006	--	--	--	17.6	4.4	19.5	--	--	--	5
15	.81	.047	.013	--	--	--	32.7	8.1	36.2	--	--	--	14
15	.75	.050	.014	--	--	--	18.3	5.7	20.8	--	--	--	14
15	--	.046	.006	--	--	--	82.2	12.9	87.2	--	--	--	17
15	.77	.047	.007	--	--	--	51.9	9.9	55.9	--	--	--	20
15	1.2	.052	.034	--	--	--	20.7	5.6	23.1	--	--	--	--
16	.58	.052	.004	--	--	--	78.8	17.4	86.1	--	--	--	8
MAY 19	.51	.024	.003	--	--	--	42.9	5.0	44.7	--	--	--	4
19	.56	.029	.001	--	--	--	41.3	4.2	42.7	--	--	--	3
19	.41	.051	.007	--	--	--	37.2	11.7	42.4	--	--	--	4
19	.48	.032	.001	--	--	--	46.2	6.5	48.7	--	--	--	4
20	.53	.027	<.001	--	--	--	42.6	8.2	45.9	--	--	--	4
20	.45	.032	.003	--	--	--	40.2	12.7	45.7	--	--	--	4
JUN 01	.48	.043	.035	--	--	--	5.1	3.2	6.6	--	--	--	4
01	.50	.039	.006	--	--	--	23.3	5.5	25.6	--	--	--	2
30	.29	.065	.024	--	--	--	21.5	3.2	22.8	--	--	--	2
30	.47	.110	.095	--	--	--	2.4	3.0	3.8	--	--	--	3
JUL 01	.27	.075	.015	--	--	--	28.6	6.0	31.0	--	--	--	3
01	.33	.079	.017	--	--	--	5.0	4.4	7.1	--	--	--	7
01	.41	.066	.027	--	--	--	26.3	3.0	27.4	--	--	--	6
01	.35	.065	.011	--	--	--	12.7	5.1	15.0	--	--	--	4
15	--	.076	.023	--	--	--	25.3	4.5	27.2	--	--	--	4
15	.22	.058	.043	--	--	--	1.4	3.3	3.0	--	--	--	4
15	.12	.064	.015	--	--	--	24.0	6.9	27.0	--	--	--	7
15	.36	.084	.031	--	--	--	10.2	4.7	12.4	--	--	--	9
27	.28	.049	.031	--	--	--	10.9	6.2	13.8	--	--	--	3
27	.33	.076	.048	--	--	--	1.8	3.4	3.4	--	--	--	3
27	.90	.090	.036	--	--	--	--	--	--	--	--	--	3
27	.65	.078	.023	--	--	--	17.9	6.4	20.8	--	--	--	5
AUG 17	.26	.125	.069	--	--	--	--	--	--	--	--	--	3
17	.23	.109	.064	--	--	--	--	--	--	--	--	--	4
19	.30	.088	.061	--	--	--	--	--	--	--	--	--	2
19	.25	.117	.069	--	--	--	10.5	3.5	12.1	--	--	--	9
SEP 21	.54	.096	.072	2.6	2.6	--	1.9	4.7	4.2	--	--	--	26

APPENDIX A-1

381516076503000 - POTOMAC RIVER AT COBB ISLAND --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SILICA, DIS- SOLVED (MG/L) AS SI02)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N)
SEP 21...	1435	3.0	(00003)	(00955)	(00613)	(00631)	(00610)	(00608)	(00605)	(00507)	(00625)	(00623)
SEP 21...	1500	16.0	(00003)	(00955)	(00613)	(00631)	(00610)	(00608)	(00605)	(00507)	(00625)	(00623)
SEP 21...	1505	3.0	(00003)	(00955)	(00613)	(00631)	(00610)	(00608)	(00605)	(00507)	(00625)	(00623)

APPENDIX A-1

381516076503000 - POTOMAC RIVER AT COBB ISLAND --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00655)	PHOS- PHORUS, DISS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
SEP 21....	.41	.071	.054	3.0	--	--	--	--	--	--	4
21....	.62	.094	.059	3.2	--	4.4	36.0	--	--	--	27
21....	.49	.104	.065	3.9	--	--	--	--	--	--	8

01661475 - POTOMAC R AT PINEY POINT, MD
 WATER QUALITY DATA- WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMP- SECTION (FT FM L BANK)	(00009)	SILICA, DIS- SOLVED (MG/LI AS SI02)	(00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	(00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	(00631)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	(00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	(00605)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	(00625)	NITRO- GEN, AM- MONIA ORGANIC TOTAL (MG/L AS N)	(00607)	NITRO- GEN, AM- MONIA ORGANIC DIS- SOLVED (MG/L AS N)	(00623)	
OCT																								
01...	1545	3.0		4500		1.3		.020		.03		.020		.030		.19		.21		.01		.04		
01...	1550	65.0		4500		.6		.050		.06		.050		.080		.21		.26		.07		.15		
01...	1615	3.0		10800		1.9		.030		.04		.020		.040		.08		.10		.00		.00		
01...	1620	33.0		10800		1.4		.050		.07		.030		.050		.16		.19		.00		.05		
09...	0745	3.0		10800		1.6		.000		.00				.030				.26		.21		.24		
09...	0750	32.0		10800		.7		.030		.15				.060				.27		.12		.18		
09...	0800	3.0		4500		2.2		.000		.00				.010				.47		.12		.13		
09...	0805	65.0		4500		.5		.030		.02				.070				.21		.07		.14		
14...	1140	3.0		10800		1.0		.020		.03				.000				.32		.14		.14		
14...	1145	34.0		10800		1.0		.020		.03				.020				.24		.14		.16		
14...	1230	3.0		4500		.9		.020		.03				.010				.38		.19		.20		
14...	1235	60.0		4500		.9		.020		.04				.030				.32		.11		.14		
22...	1030	2.0		4500		1.5		.000		.01				.030				.32		.04		.07		
22...	1035	71.0		4500		1.0		.020		.04				.160				.25		.00		.11		
22...	1045	2.0		10900		1.5		.010		.00				.050				.15		.10		.15		
22...	1050	30.0		10900		1.0		.020		.00				.120				.27		.09		.21		
27...	0940	70.0		4500		--		.010		.02				.040				.48		.31		.35		
27...	0945	3.0		4500		--		.010		.02				.100				.27		.13		.23		
27...	0955	32.0		10800		--		.010		.03				.080				.33		.14		.22		
27...	1000	3.0		10800		--		.010		.02				.090				.23		.12		.21		
NOV																								
05...	1140	2.0		10800		--		.010		.02				.040				.44		.21		.25		
05...	1145	33.0		10900		--		.010		.02				.050				.41		.23		.28		
05...	1300	2.0		4500		--		.020		.04				.060				.26		.08		.14		
05...	1305	70.0		4500		--		.010		.03				.090				.25		.15		.24		
13...	1025	2.0		10900		.4		.010		.04				.050				.24		.06		.11		
13...	1030	40.0		10800		.4		.010		.04				.070				.10		.01		.08		
13...	1100	2.0		4500		.3		.010		.02				.020				.11		.26		.28		
13...	1110	62.0		4500		.3		.020		.15				.050				.14		.15		.20		
17...	1405	2.0		10800		.7		.010		.02				.010				.65		.17		.18		
17...	1410	27.0		10800		.3		.010		.03				.040				.21		.15		.19		
17...	1420	2.0		4500		.5		.010		.33				.020				.23		.25		.27		
17...	1425	73.0		4500		.3		.010		.78				.070				.45		.21		.28		
28...	1110	3.0		4500		.2		.050		.58				.000				.11		.01		.01		
28...	1120	65.0		4500		.3		.010		2.1				.020				.10		.15		.17		
28...	1140	3.0		10800		.1		.020		.04				.010				.26		.18		.29		
28...	1150	31.0		10800		.1		.010		.07				.000				.13		.22		.22		
DEC																								
09...	1340	34.0		10800		.1		.010		.24				.000				.04		.01		.01		
09...	1345	2.0		10800		.1		.010		.03				.000				.01		.01		.01		

APPENDIX A-1

01661475 - POTOMAC R AT PINEY POINT, MD --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00502)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT 01...	.07	.040	.023	--	--	17.6	4.0	19.3	--	--	11
OCT 01...	.21	.039	.024	--	--	11.2	3.1	12.5	--	--	6
OCT 01...	.04	.042	.021	--	--	7.8	4.8	10.0	--	--	6
OCT 01...	.12	.040	.022	--	--	17.5	1.9	18.2	--	--	22
OCT 09...	.24	.040	.017	--	--	6.4	6.3	9.4	--	--	17
OCT 09...	.33	.034	.021	--	--	12.2	3.3	13.6	--	--	11
OCT 09...	.13	.036	.015	--	--	5.7	4.8	7.9	--	--	3
OCT 09...	.16	.041	.020	--	--	14.6	3.2	15.9	--	--	10
OCT 14...	.17	.028	.009	--	--	9.8	5.6	12.4	--	--	6
OCT 14...	.19	.026	.017	--	--	17.1	3.7	18.6	--	--	20
OCT 14...	.23	.026	.008	--	--	6.2	4.5	8.3	--	--	1
OCT 14...	.18	.028	.010	--	--	13.4	2.7	14.5	--	--	2
OCT 22...	.08	.030	.070	4.0	--	7.0	18.6	16.0	--	--	2
OCT 22...	.15	.031	.034	3.2	--	15.9	2.3	16.8	--	--	28
OCT 22...	.15	.030	.021	3.7	--	5.1	5.3	7.6	--	--	2
OCT 22...	.21	.027	.022	3.5	--	6.0	4.8	8.2	--	--	17
OCT 27...	.37	.032	.018	--	--	17.3	3.3	18.7	--	--	22
OCT 27...	.25	.040	.018	--	--	7.4	4.9	9.7	--	--	4
OCT 27...	.25	.045	.015	--	--	16.3	4.3	18.2	--	--	6
OCT 27...	.23	.034	.016	--	--	21.8	2.0	22.4	--	--	1
NOV 05...	.27	.030	.016	--	--	13.9	4.0	15.6	--	--	11
NOV 05...	.30	.027	.014	--	--	18.3	4.0	20.0	--	--	6
NOV 05...	.18	.028	.011	--	--	6.2	4.3	8.2	--	--	9
NOV 05...	.27	.031	.007	--	--	16.6	2.7	17.6	--	--	6
NOV 13...	.15	.030	.012	--	--	10.1	3.4	11.6	--	--	4
NOV 13...	.13	.021	.011	--	--	15.4	3.3	16.8	--	--	2
NOV 13...	.30	.029	.012	--	--	10.6	3.3	12.1	--	--	5
NOV 13...	.35	.031	.010	--	--	18.5	3.1	19.8	--	--	21
NOV 17...	.20	.026	.015	--	--	9.0	3.2	10.4	--	--	9
NOV 17...	.22	.021	.021	--	--	20.3	2.1	21.0	--	--	3
NOV 17...	.60	.038	.015	--	--	11.8	4.5	13.8	--	--	10
NOV 17...	1.1	.032	.012	--	--	25.7	2.1	26.4	--	--	10
NOV 28...	.59	.037	.014	--	--	37.5	1.8	37.8	--	--	6
NOV 28...	2.3	.023	.011	--	--	24.8	2.1	25.5	--	--	7
NOV 28...	.33	.034	.014	--	--	28.3	3.8	29.8	--	--	9
NOV 28...	.29	.026	.043	--	--	7.6	2.0	8.5	--	--	5
DEC 09...	.25	.024	.009	--	--				--	--	9
DEC 09...	.04	.023	.010	--	--				--	--	5

APPENDIX A-1

01661475 - POTOMAC R AT PINEY POINT, MD --Cont.
 WATER QUALITY DATA; WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMP- LION, CROSS SECTION, (FT FM L BANK)	(00009)	SILICA, DIS- SOLVED (MG/LI AS SIO2)	(00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	(00613)	NITRO- GEN, N02+N03 DIS- SOLVED (MG/L AS N)	(00631)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	(00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	(00607)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	(00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS- (MG/L AS N)	(00623)	
DEC																						
09...	1405	2.0		4500		.1		.010		.03		.000		.000		.01		.06		.01		.01
09...	1410	65.0		4500		.1		.010		.02		.000		.000		.03		.04		.03		.03
15...	1125	2.0		4500		.0		.010		.04		.050		.050		.15		.19		.20		.20
15...	1130	72.0		4500		.1		.010		.06		.080		.080		.05		.18		.13		.13
15...	1155	20.0		10800		.0		.010		.04		.110		.110		.16		.10		.27		.27
15...	1200	2.0		10800		.0		.010		.15		.020		.020		.33		.00		.35		.35
JAN																						
02...	1010	3.0		4500		.1		.010		.07		.010		.010		.13		.15		.14		.14
02...	1020	69.0		4500		.1		.000		.01		.030		.030		.10		.21		.13		.13
02...	1030	3.0		10800		.1		.010		.08		.020		.020		.18		.47		.20		.20
02...	1040	30.0		10800		.1		.000		.02		.020		.020		.13		.17		.15		.15
22...	1425	2.0		4500		.0		<.010		.15		.010		.010		.18		.16		.19		.19
22...	1430	63.0		4500		--		<.010		.03		.040		.040		--		.23		<.10		<.10
22...	1455	2.0		10800		.0		<.010		.05		.020		.020		.13		.13		.15		.15
22...	1500	20.0		10800		.0		<.010		.03		<.010		<.010		--		.26		<.10		<.10
27...	1300	3.0		10800		.0		<.010		.09		.040		.040		.07		.15		.11		.11
27...	1310	34.0		10900		.1		.010		.04		.070		.070		--		.24		<.10		<.10
27...	1340	3.0		4500		.1		.010		.10		.060		.060		--		.30		<.10		<.10
27...	1350	78.0		4500		.0		<.010		.12		.080		.080		--		.31		<.10		<.10
FER																						
05...	0940	2.0		10900		.0		<.010		.06		.050		.050		.05		<.10		.10		.10
05...	0945	20.0		10900		.0		<.010		.06		.030		.030		.06		<.10		.09		.09
05...	1005	70.0		4500		.1		<.010		.02		.050		.050		.05		.19		<.10		<.10
05...	1010	3.0		4500		.0		<.010		.04		.050		.050		.00		<.10		.04		.04
13...	0800	28.0		10800		.0		<.010		.09		.050		.050		.05		.25		.10		.10
13...	0810	3.0		10900		.0		<.010		.07		.020		.020		.08		.19		.10		.10
13...	0840	3.0		4500		.0		<.010		.05		.030		.030		--		.30		<.10		<.10
13...	0850	70.0		4500		.0		<.010		.04		.070		.070		.07		.17		.14		.14
19...	1110	31.0		10800		.1		.020		.05		.020		.020		.17		.21		.19		.19
19...	1120	3.0		10800		.1		<.010		.15		.030		.030		.09		.18		.12		.12
19...	1130	70.0		4500		.1		<.010		.03		.040		.040		.16		.33		.20		.20
19...	1140	3.0		4500		.1		<.010		.11		.030		.030		.14		.44		.17		.17
26...	1345	3.0		10800		--		<.010		.14		.020		.020		.19		.48		.21		.21
26...	1355	31.0		10800		--		<.010		.12		.020		.020		.26		.28		.28		.28
26...	1415	3.0		4500		--		<.010		.10		.040		.040		.15		.12		.19		.19
26...	1425	70.0		4500		--		<.010		.08		.010		.010		.22		.22		.23		.23
MAR																						
03...	1150	3.0		4500		.3		.010		.47		.030		.030		.16		.22		.19		.19
03...	1200	68.0		4500		.1		.010		.08		.040		.040		.07		.15		.15		.15
03...	1230	3.0		10800		.4		.010		.53		--		--		.19		.30		.21		.21

APPENDIX A-1

01561475 - POTOMAC R AT PINEY POINT, MD --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L) AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L) AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L) AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L) AS C) (00690)	CARBON, ORGANIC DIS- SOLVED (MG/L) AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L) (32209)	PHEOPY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLOURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70998)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
DEC 09	.04	.028	.011	--	--	9.0	1.9	9.8	--	--	4
09	.05	.038	.009	--	--	39.5	6.9	42.2	--	--	11
15	.24	.033	.032	--	--	11.3	2.5	12.4	--	--	6
15	.19	.055	.012	--	--	49.7	9.2	53.4	--	--	19
15	.31	.035	.010	--	--	12.0	2.4	13.0	--	--	13
15	.50	.025	.017	--	--	12.8	2.2	13.7	--	--	7
JAN 02	.21	.041	.018	--	--	--	--	--	--	--	2
02	.14	.071	.030	--	--	--	--	--	--	--	8
02	.28	.043	.020	--	--	--	--	--	--	--	5
02	.17	.075	.027	--	--	--	--	--	--	--	5
22	.34	.033	.022	--	--	12.7	1.6	13.3	--	--	3
22	--	.045	.019	--	--	14.6	2.6	15.6	--	--	9
22	.20	.033	.021	--	--	14.6	1.1	14.9	--	--	5
22	--	.041	.019	--	--	18.4	4.4	20.3	--	--	13
27	.20	.025	.013	--	--	9.5	1.2	9.9	--	--	5
27	--	.030	.018	--	--	16.5	2.0	17.2	--	--	6
27	--	.021	.019	--	--	10.6	1.0	11.0	--	--	2
27	--	.027	.019	--	--	16.8	1.5	17.2	--	--	7
FER 05	.16	.013	.008	--	--	9.4	2.4	10.5	--	--	6
05	.15	.014	.007	--	--	10.2	2.6	11.3	--	--	11
05	--	.018	.007	--	--	20.1	4.8	22.1	--	--	--
05	.09	.013	.007	--	--	8.9	1.8	9.6	--	--	5
13	.19	.081	.011	--	--	8.0	1.7	8.7	--	--	7
13	.17	.027	.013	--	--	8.9	2.2	9.8	--	--	5
13	.4	.019	.010	--	--	6.8	1.9	7.6	--	--	5
13	.18	.025	.010	--	--	7.2	1.4	7.8	--	--	6
19	.24	.027	.015	--	--	10.0	1.8	10.8	--	--	1
19	.27	.062	.010	--	--	2.4	1.0	2.9	--	--	1
19	.23	.022	.014	--	--	5.5	1.8	6.3	--	--	1
19	.28	.017	.014	--	--	2.2	3.0	2.6	--	--	3
26	.35	.019	.014	--	--	10.3	3.5	11.6	--	--	2
26	.40	.022	.014	--	--	10.5	3.5	12.1	--	--	2
26	.29	.017	.014	--	--	9.7	1.8	10.4	--	--	2
26	.31	.017	.013	--	--	11.6	2.1	12.4	--	--	2
MAR 03	.66	.026	.015	--	--	6.8	1.5	7.4	2.4	--	1
03	.23	.031	.014	--	--	12.6	3.3	14.1	--	--	4
03	.74	.017	.018	--	--	6.5	2.0	7.4	--	--	1

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMP- L- SECTION (FT FM L BANK)	(00009)	SILICA, DIS- SOLVED (MG/L) AS SI02)	(00955)	NITRO- GEN, VITRITE SOLVED (MG/L) AS N)	(00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N)	(00631)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N)	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N)	(00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N)	(00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N)	(00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L) AS N)	(00607)		
MAR																							
03...	1235	20.0		10800		.3		.010		.53				.040					.33		.25		.29
09...	1340	3.0		10800		.1		<.010		.33				.080					.43		.19		.27
09...	1350	33.0		10800		<.1		<.010		.29				.070					.25		.22		.29
09...	1400	3.0		4500		<.1		<.010		.29				.070					.30		.24		.31
09...	1410	70.0		4500		<.1		<.010		.28				.070					.36		.09		.16
18...	1340	2.0		10800		<.1		.010		.28				.030					.27		.16		.19
18...	1345	32.0		10800		<.1		<.010		.28				.020					.35		.17		.19
18...	1410	2.0		4500		<.1		.010		.25				.030					.19		--		<.10
18...	1415	81.0		4500		<.1		<.010		.25				.010					.14		.14		<.10
26...	1120	3.0		10800		.3		.010		.30				<.010					.56		--		.15
26...	1130	27.0		10800		.2		.010		.27				.010					.64		.28		.19
26...	1150	3.0		4500		.2		<.010		.28				.010					.40		.33		.29
26...	1200	70.0		4500		.1		.010		.26				.030					.46		.27		.34
APR																							.30
02...	1510	29.0		10800		.2		<.010		.28				.060					.56		.29		.35
02...	1520	3.0		10800		.1		<.010		.26				.040					.42		.29		.33
02...	1610	68.0		4500		.2		<.010		.20				.070					.35		.28		.35
02...	1620	3.0		4500		.1		<.010		.25				.040					.54		.29		.33
07...	0950	68.0		4500		.2		.010		.33				.080					.34		.50		.58
07...	1000	3.0		4500		.2		.020		.37				.050					.60		.23		.28
07...	1030	30.0		10800		.2		.010		.27				.040					.55		.28		.32
07...	1040	3.0		10800		.3		.010		.29				.030					.50		.30		.33
16...	0855	79.0		4500		.2		.010		.19				.070					.67		.22		.29
16...	0900	2.0		4500		.1		.010		.04				.040					.79		.43		.47
16...	0925	29.0		10900		.1		.010		.13				.050					.60		.37		.42
16...	0930	2.0		10800		.1		<.010		.02				.040					.28		.25		.29
23...	1000	3.0		4500		.1		.020		.10				.040					.90		.20		.24
23...	1005	4500		4500		.1		.010		.11				.070					.51		.18		.25
23...	1100	3.0		10800		.3		.020		.20				.040					.94		.35		.39
23...	1110	19.0		10800		.1		<.010		.03				.040					.72		.14		.18
30...	1100	2.0		4500		<.1		.020		.19				.050					.83		.26		.31
30...	1110	68.0		4500		.1		<.010		.02				.080					.61		.05		.13
30...	1145	2.0		10800		.2		.020		.23				.050					.84		.26		.31
30...	1155	28.0		10400		<.1		.020		.07				.080					.53		.17		.25
MAY																							
04...	1215	67.0		4500		.3		.010		.03				.090					.71		.13		.22
04...	1220	2.0		4500		.1		<.010		.02				.070					.97		.20		.27
04...	1235	3.0		10800		.1		.020		.07				.050					.80		.16		.21
04...	1240	28.0		10800		.1		<.010		.03				.060					.67		.33		.39
11...	1500	2.0		10800		.1		<.010		.02				.050					1.50		.18		.23

01661475 - POTOMAC R AT PINEY POINT, MD ---Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DISE- SOLVED (MG/L AS N) (00502)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DISE- SOLVED (MG/L AS P) (00566)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD CORR. (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
MAR 03	.82	.024	.014	--	--	7.3	2.0	8.1	--	--	1
09	.60	.023	.013	--	--	12.2	1.9	13.0	--	--	3
09	.58	.023	.013	--	--	12.5	2.4	13.5	--	--	7
09	.60	.021	.014	--	--	13.4	2.0	14.2	--	--	3
09	.44	.025	.014	--	--	15.8	5.7	18.3	--	--	4
14	.47	.051	.015	--	--	6.8	1.5	7.4	--	--	3
14	.47	.035	.025	--	--	10.0	2.4	11.1	--	--	9
14	--	.025	.015	--	--	6.5	1.3	7.0	--	--	4
18	.40	.032	.016	--	--	10.4	2.8	11.6	--	--	8
18	.49	.039	.027	--	--	.9	1.4	1.6	--	--	4
26	.55	.034	.017	--	--	9.2	1.4	9.7	--	--	8
26	.62	.027	.015	--	--	1.6	1.3	2.2	--	--	3
26	.55	.029	.015	--	--	3.4	1.3	3.9	--	--	6
APR 02	.63	.016	.014	--	--	12.6	2.5	13.6	--	--	6
02	.59	.018	.008	--	--	13.0	2.7	14.2	--	--	4
02	.55	.014	.006	--	--	8.9	2.0	9.7	--	--	5
02	.58	.015	.005	--	--	10.2	2.1	11.1	--	--	6
07	.91	.004	.015	--	--	17.3	3.5	18.7	--	--	9
07	.65	.016	.003	--	--	34.6	5.0	36.5	--	--	5
07	.59	.021	<.001	--	--	33.1	3.8	34.5	--	--	5
07	.62	.021	.002	--	--	34.0	5.6	36.3	--	--	6
16	.48	.023	.012	--	--	105	4.2	106	--	--	12
16	.51	.032	.001	--	--	57.7	4.6	59.1	--	--	11
16	.55	.014	.002	--	--	107	6.3	109	--	--	5
16	.31	.033	.002	--	--	112	21.9	121	--	--	9
23	.34	.022	.001	--	--	98.4	11.6	103	--	--	10
23	.36	.017	.005	--	--	106	4.2	106	--	--	7
23	.59	.030	.001	--	--	106	4.2	106	--	--	7
23	.21	.023	<.001	--	--	117	17.2	124	--	--	4
30	.50	.031	<.001	--	--	82.3	.2	81.0	--	--	8
30	.15	.019	.002	--	--	102	10.6	105	--	--	3
30	.54	.032	.001	--	--	87.4	6.2	89.1	--	--	7
30	.32	.020	.001	--	--	75.9	10.2	79.7	--	--	4
MAY 04	.25	.023	.004	--	--	106	4.4	107	--	--	5
04	.29	.033	.004	--	--	105	3.1	105	--	--	9
04	.28	.024	.002	--	--	105	5.1	106	--	--	6
04	.42	.025	.006	--	--	79.7	8.1	82.5	--	--	6
11	.25	.040	.004	--	--				--	--	14

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMP- SECTION (FT FM L BANK)	(00009)	SILICA, DIS- SOLVED AS SI02)	(00955)	NITRO- GEN, VITRITE DIS- SOLVED AS V)	(00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED AS N)	(00631)	NITRO- GEN, AMMONIA DIS- SOLVED AS V)	(00608)	NITRO- GEN, ORGANIC TOTAL AS V)	(00605)	NITRO- GEN, ORGANIC DIS- SOLVED AS N)	(00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL AS N)	(00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED AS N)	(00623)
MAY	1510	38.0	10800	1	<.010	<.010	.01	.060	--	--	.32	.78	.38								
	1540	2.0	4500	2	<.010	<.010	.03	.120	--	--	.51	.83	.63								
	1550	75.0	4500	1	<.010	<.010	.01	.060	--	--	.37	.81	.43								
	20.0	69.0	4500	4	<.010	<.010	.02	.110	--	--	.22	.52	.33								
	20.0	2.0	4500	1	<.010	<.010	.01	.040	--	--	.20	.42	.24								
	20.0	0915	10800	<.1	<.010	<.010	.02	.070	--	--	.33	.42	.40								
	20.0	31.0	10800	2	<.010	<.010	.01	.040	--	--	.32	.41	.36								
	28.0	1830	10400	1	<.010	<.010	.02	.020	--	--	.23	.59	.25								
	28.0	1840	10800	1	<.010	<.010	.02	.040	--	--	.27	.52	.31								
	28.0	3.0	4500	1	<.010	<.010	.01	.030	--	--	.22	.64	.25								
	28.0	69.0	4500	7	<.010	<.010	.02	.090	--	--	.33	.78	.42								
JUN	1125	2.0	10800	7	<.010	<.010	.02	.020	--	--	.47	.53	.49								
	1130	32.0	10800	6	<.010	<.010	.02	.060	--	--	.04	.47	.10								
	01.0	2.0	4500	9	<.010	<.010	.01	.020	--	--	.37	.63	.39								
	01.0	78.0	4500	2.0	<.010	<.010	.02	.090	--	--	.23	.44	.32								
	10.0	2.0	10800	2.0	<.010	<.010	.15	.090	--	--	.19	.78	.28								
	10.0	22.0	10800	6	<.010	<.010	.17	.060	--	--	.40	1.20	.46								
	10.0	2.0	4500	1.9	.010	.010	.19	.050	--	--	.34	.56	.39								
	10.0	69.0	4500	1.2	<.010	<.010	.10	.170	--	--	.20	.60	.37								
	15.0	2.0	10800	2.0	<.010	<.010	.01	.040	--	--	.15	.40	.19								
	15.0	31.0	10800	1.4	<.010	<.010	.02	.090	--	--	.18	.41	.27								
	15.0	2.0	4500	2.0	<.010	<.010	.01	.040	--	--	.12	.42	.16								
	15.0	70.0	4500	1.8	.010	.010	.04	.220	--	--	.22	.31	.44								
	25.0	64.0	4500	2.3	<.010	<.010	.03	.060	--	--	.30	1.10	.36								
	25.0	2.0	4500	2.2	<.010	<.010	.03	.070	--	--	.56	.73	.63								
	25.0	26.0	10800	2.4	<.010	<.010	.01	.040	--	--	.30	.53	.34								
	25.0	2.0	10800	2.0	<.010	<.010	.01	.080	--	--	.35	.68	.43								
JUL	1210	3.0	10800	2.1	<.010	<.010	.01	.010	--	--	--	.52	.41								
	01.0	30.0	10800	1.3	.020	.020	.03	.050	--	--	.38	.45	.43								
	01.0	3.0	4500	2.2	<.010	<.010	.01	.010	--	--	.35	.55	.36								
	01.0	73.0	4500	2.3	<.010	<.010	.01	.340	--	--	.23	.64	.57								
	07.0	32.0	10800	2.3	<.010	<.010	.02	.130	--	--	.32	.52	.45								
	07.0	2.0	10800	2.8	<.010	<.010	.02	.030	--	--	.37	.82	.40								
	07.0	77.0	4500	1.7	<.010	<.010	.04	.240	--	--	.31	.73	.55								
	07.0	2.0	4500	2.4	<.010	<.010	.01	.010	--	--	.58	.98	.59								
	15.0	3.0	4500	2.7	<.010	<.010	.01	.030	--	--	.26	.55	.29								
	15.0	71.0	4500	2.7	.010	.010	.02	.230	--	--	.00	.41	.16								
	15.0	2.0	10800	3.3	<.010	<.010	.01	.020	--	--	.18	.67	.20								

01661475 - POTOMAC R AT PINEY POINT, MD --Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DISE- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DISE- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISE- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
MAY 11...	.39	.031	<.001	--	--	92.7	11.0	96.7	--	--	7
11...	.66	.029	<.001	--	--	93.6	.9	91.8	--	--	7
11...	.44	.020	<.001	--	--	--	--	--	--	--	7
20...	.35	.031	.002	--	--	63.2	19.2	71.6	--	--	5
20...	.25	.028	<.001	--	--	61.0	-3.7	58.4	--	--	4
20...	.42	.024	.004	--	--	59.6	-1.5	58.0	--	--	6
20...	.37	.028	.002	--	--	71.0	9.3	74.5	--	--	5
28...	.27	.017	.007	--	--	33.6	2.2	34.2	--	--	4
28...	.33	.020	.007	--	--	45.0	7.4	47.9	--	--	4
28...	.26	.016	.007	--	--	31.0	1.5	31.3	--	--	2
28...	.44	.046	.018	--	--	108	25.8	119	--	--	8
JUN 01...	.51	.037	.007	--	--	18.6	2.8	19.6	--	--	1
01...	.12	.030	.004	--	--	31.0	10.6	35.7	--	--	3
01...	.40	.041	.009	--	--	24.2	2.5	25.0	--	--	4
01...	.34	.061	.020	--	--	58.9	31.5	73.3	--	--	11
10...	.43	.049	.010	--	--	24.7	4.5	26.5	--	--	3
10...	.63	.046	.016	--	--	6.1	2.5	7.3	--	--	4
10...	.59	.039	.010	--	--	15.8	3.1	17.1	--	--	4
10...	.47	.073	.056	--	--	12.4	4.2	14.2	--	--	5
15...	.20	.039	.001	--	--	12.4	2.8	13.5	--	--	3
15...	.29	.050	.022	--	--	1.0	2.0	2.0	--	--	6
15...	.17	.031	.003	--	--	11.4	3.8	13.1	--	--	3
15...	.49	.066	.051	--	--	--	--	--	--	--	4
25...	.39	.047	.015	--	--	1.1	2.1	2.1	--	--	2
25...	.65	.044	.025	--	--	16.7	2.5	17.7	--	--	3
25...	.35	.043	.014	--	--	--	--	--	--	--	3
25...	.44	.044	.028	--	--	36.9	4.3	38.4	--	--	3
JUL 01...	.42	.051	.005	--	--	15.9	4.7	17.9	--	--	5
01...	.45	.049	.022	--	--	2.9	4.3	5.0	--	--	4
01...	.37	.054	.008	--	--	13.2	3.1	14.5	--	--	3
01...	.58	.127	.079	--	--	5.2	11.2	10.5	--	--	22
07...	.47	.050	.033	--	--	.3	3.1	1.8	--	--	3
07...	.42	.095	.049	--	--	77.6	9.8	81.2	--	--	5
07...	.59	.067	.050	--	--	1.6	9.4	5.6	--	--	3
07...	.60	.099	.027	--	--	10.4	9.3	10.7	--	--	2
15...	.30	.067	.032	--	--	15.9	5.5	18.4	--	--	4
15...	.18	.072	.069	--	--	1.4	2.0	2.4	--	--	4
15...	.21	.072	.026	--	--	20.0	5.3	22.2	--	--	5

01661475 - POTOMAC R AT PINEY POINT, MD ---Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(000003)	SAMP- L SECTION (FT FM L BANK)	(000009)	SILICA, DIS- SOLVED (MG/LI AS SID2)	(00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	(00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	(00631)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	(00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	(00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	(00607)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	(00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	(00623)
JUL 15	0930	32.0		10800		2.0		<.010		.01		.160		.160		.12		.12		.45		.28	
24	1240	67.0		4500		2.8		<.010		.01		.270		.270		.14		.14		.58		.41	
24	1250	2.0		4500		2.6		<.010		.02		.010		.010		.35		.35		.54		.36	
24	1320	25.0		10800		2.5		<.010		.01		.020		.020		.29		.29		.44		.31	
24	1330	2.0		10800		2.7		<.010		.01		.020		.020		.28		.28		.56		.30	
27	1515	1.6		10800		2.7		<.010		.01		.010		.010		.35		.35		1.00		.36	
27	1520	29.0		10800		2.9		<.010		.01		.090		.090		.32		.32		.60		.41	
27	1530	3.0		4500		2.7		<.010		.02		.030		.030		.33		.33		.76		.36	
27	1535	77.0		4500		3.2		<.010		.01		.310		.310		.00		.00		.24		.16	
AUG 07	1345	2.0		4500		3.3		<.010		.01		.040		.040		.41		.41		.81		.45	
07	1400	71.0		4500		3.3		<.010		.02		.280		.280		.36		.36		.81		.64	
07	1420	27.0		10800		3.2		<.010		<.01		.060		.060		.35		.35		.54		.41	
07	1430	2.0		10800		3.4		<.010		<.01		.100		.100		.26		.26		.59		.27	
14	1300	75.0		4500		2.9		<.010		.01		.100		.100		.20		.20		.45		.30	
14	1310	2.0		4500		3.5		<.010		.01		.010		.010		.26		.26		.42		.27	
14	1355	2.0		10800		3.8		<.010		.02		.030		.030		.21		.21		.24		.24	
14	1400	28.0		10800		3.2		<.010		.01		.140		.140		.23		.23		.54		.37	
17	1120	1.6		10800		3.6		<.010		.01		.030		.030		.13		.13		.49		.16	
17	1125	26.0		10800		3.3		<.010		.01		.050		.050		.20		.20		.55		.25	
17	1135	70.0		4500		2.9		<.010		.01		.210		.210		.23		.23		.45		.44	
17	1140	1.6		4500		3.2		<.010		.01		.050		.050		.12		.12		.44		.17	
28	1150	27.0		10800		2.9		.050		.14		.060		.060		.41		.41		.40		.47	
28	1200	1.0		10800		3.2		.030		.07		.030		.030		.25		.25		.31		.28	
28	1225	73.0		4500		1.3		.070		.18		.040		.040		.56		.56		.22		.60	
28	1230	1.0		4500		2.7		.010		.03		.050		.050		.58		.58		.38		.63	
SEP 02	1117	75.0		4500		1.3		.130		.29		.050		.050		.24		.24		.42		.29	
02	1125	2.0		4500		2.3		.020		.06		.040		.040		.37		.37		.60		.41	
02	1210	34.0		10800		2.5		.090		.21		.030		.030		.21		.21		.47		.24	
02	1220	2.0		10800		2.1		.020		.04		.030		.030		.30		.30		.53		.33	
10	10	1.6		4500		2.5		<.010		.03		.030		.030		.34		.34		.33		.37	
10	10	74.0		4500		2.2		<.010		.05		.120		.120		.17		.17		.27		.29	
10	10	26.0		10800		2.0		.060		.16		.070		.070		.45		.45		.22		.52	
10	10	1.6		10800		2.9		.030		.10		.030		.030		.30		.30		.21		.33	
17	1110	1.0		4500		2.9		.020		.08		.030		.030		.19		.19		.21		.33	
17	1130	72.0		4500		2.3		<.010		.10		.130		.130		.20		.20		.20		.10	
17	1200	1.0		10800		2.6		.010		.08		.140		.140		.28		.28		.69		.32	
17	1220	37.0		10800		2.2		<.010		.08		.120		.120		.28		.28		.20		.32	
21	1130	80.0		4500		2.4		.090		.23		.090		.090		.11		.11		.28		.20	

01661475 - POTOMAC R AT PINEY POINT, MD --Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	P-105- PHORUS, DIS- SOLVED, (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLURO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
JUL 15	.29	.060	.058	--	--	.9	1.8	1.8	--	--	4
24	.42	.129	.057	--	--	1.3	4.5	3.4	--	--	11
24	.38	.054	<.001	--	--	17.6	4.8	19.7	--	--	3
24	.32	.040	<.001	--	--	3.0	8.8	7.2	--	--	1
24	.31	.045	<.001	--	--	31.6	4.1	33.1	--	--	2
27	.37	.034	.006	--	--	28.6	3.8	30.0	--	--	3
27	.42	.028	.014	--	--	1.8	3.0	3.2	--	--	5
27	.38	.050	<.001	--	--	.9	2.0	1.9	--	--	9
27	.17	.108	.077	--	--	.9	2.0	1.9	--	--	1
AUG 07	.45	.096	.029	--	--	54.3	4.8	55.9	--	--	1
07	.66	.100	.085	--	--	.8	1.8	1.7	--	--	1
07	--	.051	.028	--	--	1.9	1.9	2.3	--	--	1
07	--	.064	.019	--	--	34.0	7.2	37.0	--	--	1
14	.31	.111	.103	--	--	1.5	4.0	3.4	--	--	1
14	.28	.070	.048	--	--	10.2	2.8	11.4	--	--	4
14	.26	.505	.045	--	--	9.7	2.3	10.7	--	--	1
14	.38	.137	.107	--	--	.2	3.9	2.1	--	--	1
17	.17	.089	.056	--	--	20.9	3.3	22.2	--	--	1
17	.26	.088	.077	--	--	9.0	3.0	10.3	--	--	4
17	.45	.134	.120	--	--	6.5	10.4	11.4	--	--	8
17	.18	.092	.075	--	--	17.0	3.5	18.4	--	--	24
28	.61	.045	.034	--	--	3.6	3.3	5.2	--	--	3
28	.35	.038	.028	--	--	7.9	2.9	9.2	--	--	4
28	.78	.025	.072	--	--	16.0	31.4	31.0	--	--	2
28	.66	.035	.019	--	--	15.4	3.2	16.8	--	--	16
SEP 02	.58	.036	.020	--	--	2.5	3.4	4.2	--	--	1
02	.47	.028	.009	--	--	6.9	2.8	8.2	--	--	3
02	.45	.024	.025	--	--	2.5	4.0	4.4	--	--	7
02	.37	.031	.011	--	--	5.0	2.5	6.1	--	--	4
10	.40	.023	.024	--	--	9.7	2.8	10.9	--	--	--
10	.34	.048	.055	--	--	1.0	3.7	2.8	--	--	5
10	.68	.042	.031	--	--	1.2	2.8	2.6	--	--	3
10	.43	.038	.019	--	--	9.1	2.5	10.2	--	--	2
17	--	.040	.014	--	--	10.5	3.0	11.8	--	--	4
17	--	.063	.050	--	--	2.0	3.1	3.4	--	--	3
17	.40	.054	.016	--	--	17.3	3.7	18.9	--	--	2
17	--	.063	.050	--	--	1.4	2.2	2.5	--	--	5
21	.43	.109	.085	2.5	--	3.0	2.7	4.3	--	--	4
											17

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

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SILICA, DIS- SOLVED (MG/LI AS SID2)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/LI AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)
SEP 21...	1135	1.6	4500	2.5	<.010	.03	--	.040	.44	.47	.48
21...	1220	1.6	10800	2.5	<.010	.03	--	.030	.17	.27	.20
21...	1225	32.0	10800	2.4	.060	.14	--	.090	.32	.40	.41

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00566)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
SEP 21...	.51	.092	.049	3.4	--	12.8	3.2	14.2	--	--	36
21...	.23	.073	.049	3.1	--	13.8	3.8	15.5	--	--	9
21...	.55	.079	.066	2.2	--	3.9	4.0	5.8	--	--	6

APPENDIX A-1

380212076195000 -- POTOMAC RIVER AT POINT LOOKOUT

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LCC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SILICA, DIS- SOLVED AS SIDE)	(00955)	NITRO- GEN, VITRITE DIS- SOLVED (MG/L AS N)	(00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	(00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	(00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	(00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	(00607)	NITRO- GEN, AM- MONIA ORGANIC TOTAL (MG/L AS N)	(00625)	NITRO- GEN, AM- MONIA ORGANIC DIS- SOLVED (MG/L AS N)	(00623)	
OCT																								
22...	1240	2.0	4500			.7		.020		.10					.130				.02		.26		.15	
22...	1245	50.0	4500			.6		.010		.02					.070				.10		.20		.17	
22...	1320	2.0	24300			.9		.010		.02					.050				.07		.42		.12	
22...	1325	20.0	24300			.9		.000		.02					.060				.12		.34		.18	
NOV																								
17...	1235	2.0	24300			.3		.010		.03					.060				.14		.36		.20	
17...	1240	19.0	24300			.3		.010		.02					.040				.14		.28		.18	
17...	1315	55.0	4500			.3		.010		.03					.050				.17		.22		.22	
17...	1320	2.0	4500			.4		.010		.03					.070				.15		.18		.22	
DEC																								
15...	1000	2.0	24300			.1		.000		.01					.060				.11		.10		.17	
15...	1005	22.0	24300			.1		.010		.03					.120				.30		.18		.42	
15...	1025	2.0	4500			.1		.010		.47					.080				.15		.18		.23	
15...	1030	53.0	4500			.1		.000		.01					.030				.34		.30		.37	
JAN																								
22...	1555	2.0	4500			.0		.010		.08					.040				--		.15		<.10	
22...	1600	57.0	4500			.0		<.010		.02					.010				--		.10		<.10	
22...	1625	2.0	24300			.0		<.010		.03					.020				--		.24		<.10	
22...	1630	19.0	24300			.0		<.010		.03					.020				.09		.22		.11	
FER									1.0															
05...	1100	3.0	4500			.1		.070		.0					.040				.00		<.10		.02	
05...	1105	60.0	4500			.1		<.010		.02					.050				.04		<.10		.09	
05...	1135	20.0	24300			.0		<.010		.04					.050				.03		<.10		.08	
05...	1140	3.0	24300			.0		<.010		.04					.190				.00		<.10		.01	
MAR																								
03...	1000	3.0	24300			.2		.010		.40					.040				.13		.30		.17	
03...	1005	15.0	24300			.1		.010		.40					.040				.17		.28		.21	
03...	1045	3.0	4500			.1		.010		.41					.020				.10		.21		.12	
03...	1050	53.0	4500			<.1		.010		.11					.040				.12		.19		.16	
APR																								
16...	1045	2.0	24300			.1		.010		.11					.030				.21		.53		.24	
16...	1050	18.0	24300			.1		.010		.12					.060				.17		.55		.23	
16...	1110	2.0	4500			.1		.010		.13					.040				.19		.33		.23	
16...	1115	55.0	4500			.1		<.010		.14					.040				.27		.39		.31	
MAY																								
20...	1025	2.0	4500			.1		<.010		.04					.050				.29		.69		.34	
20...	1030	58.0	4500			.3		<.010		.01					.080				.17		.31		.25	
20...	1045	20.0	24300			.1		.010		.02					.070				.18		.39		.25	
20...	1050	2.0	24300			.2		<.010		.01					.040				.43		.65		.47	
JUL																								
27...	0925	3.0	24300			1.7		<.010		.02					.040				.52		.58		.56	

APPENDIX A-1

380212076195000 - POTOMAC RIVER AT POINT LOOKOJIT --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEV DIS- SOLVED (MG/L AS N) (006602)	PHOS- PHORUS, TOTAL (MG/L AS P) (006655)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (005566)	CARBON, ORGANIC TOTAL (MG/L AS C) (006580)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT											
22....	.25	.030	.020	3.8	--	6.0	2.7	7.2	--	--	9
22....	.19	.035	.014	7.2	--	6.6	5.3	9.0	--	--	14
22....	.14	.028	.015	3.8	--	12.0	2.4	13.0	--	--	6
22....	.20	.030	.013	4.3	--	10.9	2.5	11.9	--	--	5
NOV											
17....	.23	.034	.021	--	--	13.5	3.9	15.2	--	--	2
17....	.20	.031	.020	--	--	11.4	3.8	13.1	--	--	5
17....	.25	.028	.019	--	--	11.2	3.5	12.8	--	--	4
17....	.25	.024	.027	--	--	14.6	2.8	15.7	--	--	3
DEC											
15....	.18	.000	.005	--	--	13.6	2.3	14.5	--	--	7
15....	.45	.016	.028	--	--	14.1	2.4	15.0	--	--	6
15....	.70	.029	.014	--	--	12.8	2.6	13.9	--	--	2
15....	.38	.029	.001	--	--	15.7	7.6	19.2	--	--	7
JAN											
22....	--	.027	.019	--	--	9.4	.9	9.7	--	--	6
22....	--	.045	.019	--	--	13.1	2.1	14.0	--	--	19
22....	--	.034	.019	--	--	14.0	2.2	14.9	--	--	6
22....	.14	.035	.019	--	--	14.0	2.2	14.9	--	--	10
FEB											
05....	1.0	.016	.011	--	--	6.6	1.1	7.0	--	--	7
05....	.11	.011	.007	--	--	8.2	1.8	8.9	--	--	8
05....	.12	.034	.009	--	--	13.3	6.2	16.1	--	--	15
05....	.05	.016	.006	--	--	9.0	3.4	10.5	--	--	--
MAR											
03....	.57	.030	.017	--	--	7.6	2.4	8.6	--	--	3
03....	.61	.064	.012	--	--	8.7	2.2	9.6	--	--	2
03....	.53	.032	.012	--	--	37.9	3.0	38.8	3.9	--	6
03....	.27	.028	.013	--	--	17.7	2.4	18.6	4.2	--	5
APR											
16....	.35	.015	.003	--	--	36.2	3.8	37.5	--	--	9
16....	.35	.012	<.001	--	--	38.7	2.3	39.3	--	--	5
16....	.35	.012	.002	--	--	41.4	9.6	44.5	--	--	7
16....	.45	.009	<.001	--	--	41.4	5.7	43.6	--	--	39
MAY											
20....	.38	.023	.002	--	--	36.3	3.2	37.3	--	--	5
20....	.26	.027	<.001	--	--	68.8	7.2	71.2	--	--	7
20....	.27	.023	<.001	--	--	57.6	5.0	59.2	--	--	7
20....	.48	.030	<.001	--	--	57.0	4.8	58.5	--	--	7
JUL											
27....	.58	.036	.027	--	--	--	--	--	--	--	1

380212076195000 - POTOMAC RIVER AT POINT LOOKOUT --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(000003)	SAMPLE LOC- ATION, CROSS SECTION, (FT FM L BANK)	(000009)	SILICA, DIS- SOLVED (MG/LI AS SI02)	(00955)	NITRO- GEN, VITRITE DIS- SOLVED (MG/L AS N)	(00613)	NITRO- GEN, N02+N03 DIS- SOLVED (MG/L AS N)	(00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	(00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	(00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	(00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	(00625)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	(00623)
JUL	0930	24.0	24300			1.7	<.010	<.010	.01			.030			.023	.23		.67	.26				
	1010	3.0	4500			1.9	<.010	.02	.02			.040			.23	.48		.48	.27				
	1015	57.0	4500			2.9	.010	.05	.05			.250			.26	.30		.30	.51				
AUG	0910	3.0	4500			2.1	<.010	.01	.01			.020			.25	.32		.32	.27				
	0915	59.0	4500			2.6	<.010	.01	.01			.210			.27	.45		.45	.48				
	1015	3.0	24300			2.4	<.010	.01	.01			.100			.14	.38		.38	.24				
	1020	29.0	24300			1.8	.030	.03	.03			.080			.24	.32		.32	.32				
SEP	1635	3.0	4500			1.1	.010	.02	.02			.040			.38	.32		.32	.42				
	1640	57.0	4500			2.1	.160	.35	.35			.070			.14	.41		.41	.21				
	1025	3.0	24300			1.6	.010	.01	.01			.040			.36	.86		.86	.40				
	1030	26.0	24300			1.7	.020	.06	.06			.050			.28	.41		.41	.33				
	1050	3.0	4500			.9	.020	.07	.07			.080			.31	.26		.26	.39				
	1055	57.0	4500			2.0	.120	.29	.29			.060			.19	.46		.46	.25				

APPENDIX A-1

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00565)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00566)	CARBON, TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
JUL 27....	.27	.021	.010	--	--	7.2	3.3	8.7	--	--	2
27....	.29	.005	.005	--	--	--	--	--	--	--	1
27....	.55	.117	.106	--	--	.9	1.4	1.6	--	--	4
AUG 19....	.28	.093	.067	--	--	--	--	--	--	--	4
19....	.49	.146	.104	--	--	--	--	--	--	--	15
19....	.25	.089	.062	--	--	--	--	--	--	--	4
19....	.35	.101	.067	--	--	--	--	--	--	--	2
SEP 10....	.44	.027	.020	--	--	--	--	--	--	--	1
10....	.56	.038	.036	--	--	1.2	1.7	2.0	--	--	1
21....	.41	.065	.059	2.7	--	--	--	--	--	--	1
21....	.39	.055	.065	3.0	--	10.8	6.0	13.6	--	--	1
21....	.46	.080	.095	2.3	--	--	--	--	--	--	5
21....	.54	.103	.076	2.5	--	4.0	3.1	5.4	--	--	--

380200076124100 - CHESAPEAKE BAY NR POTOMAC R / PT LOOKOUT TRENCH

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LNG DEPTH (FT)	(000003)	SAMPLE LOC- ATION, CROSS SECTION: (FT FM L BANK)	(000009)	SILICA, DIS- SOLVED AS SID2)	(00955)	NITRO- GEN, NITRITE DIS- SOLVED AS V)	(00613)	NITRO- GEN, NITRO- DIS- SOLVED AS N)	(00631)	NITRO- GEN, AMMONIA DIS- SOLVED AS N)	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED AS N)	(00608)	NITRO- GEN, ORGANIC DIS- SOLVED AS N)	(00605)	NITRO- GEN, ORGANIC TOTAL AS N)	(00625)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL AS N)	(00607)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL AS N)	(00623)		
OCT	1500	2.0	--	--	--	.3	.010	.02	.03	.02	.03	.03	.02	.03	.02	.010	.020	.02	.03	.02	.03	.02	.03	.02	.03
NOV	1505	75.0	--	--	--	1.0	.020	.03	.03	.02	.03	.02	.03	.02	.010	.020	.02	.03	.02	.03	.02	.03	.02	.03	.02
NOV	1105	2.0	--	--	--	.3	.010	.03	.03	.02	.03	.02	.03	.02	.010	.020	.02	.03	.02	.03	.02	.03	.02	.03	.02
NOV	1110	75.0	--	--	--	.5	.010	.02	.03	.02	.03	.02	.03	.02	.010	.020	.02	.03	.02	.03	.02	.03	.02	.03	.02
DEC	0800	2.0	--	--	--	.0	.010	.02	.03	.02	.03	.02	.03	.02	.010	.020	.02	.03	.02	.03	.02	.03	.02	.03	.02
DEC	0805	75.0	--	--	--	.2	.010	.03	.03	.02	.03	.02	.03	.02	.010	.020	.02	.03	.02	.03	.02	.03	.02	.03	.02
JAN	1815	2.0	--	--	--	--	<.010	.01	.01	.01	.01	.01	.01	.01	<.010	.030	.060	.030	.060	.030	.060	.030	.060	.030	.060
JAN	1820	72.0	--	--	--	--	<.010	.01	.01	.01	.01	.01	.01	.01	<.010	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060
MAR	0805	3.0	--	--	--	.1	<.010	.33	.02	.33	.02	.33	.02	.33	<.010	.040	.090	.040	.090	.040	.090	.040	.090	.040	.090
MAR	0810	72.0	--	--	--	.1	<.010	.02	.02	.02	.02	.02	.02	.02	<.010	.040	.090	.040	.090	.040	.090	.040	.090	.040	.090
MAY	1245	75.0	--	--	--	.5	<.010	.02	1.1	.02	1.1	.02	1.1	<.010	.080	.040	.080	.040	.080	.040	.080	.040	.080	.040	.080
MAY	1250	2.0	--	--	--	<.1	<.010	.02	.02	.02	.02	.02	.02	<.010	.040	.090	.040	.090	.040	.090	.040	.090	.040	.090	.040
JUL	0730	2.0	--	--	--	1.9	<.010	.02	.02	.02	.02	.02	.02	<.010	.040	.090	.040	.090	.040	.090	.040	.090	.040	.090	.040
JUL	0735	75.0	--	--	--	2.3	<.010	.02	.02	.02	.02	.02	.02	<.010	.140	.140	.140	.140	.140	.140	.140	.140	.140	.140	.140
JUL	0715	3.0	--	--	--	1.4	<.010	.01	.01	.01	.01	.01	.01	<.010	.020	.020	.020	.020	.020	.020	.020	.020	.020	.020	.020
JUL	0720	80.0	--	--	--	2.9	<.010	.01	.01	.01	.01	.01	.01	<.010	.230	.230	.230	.230	.230	.230	.230	.230	.230	.230	.230
AUG	0845	3.0	--	--	--	1.1	<.010	.01	.04	.01	.04	.01	.04	<.010	.050	.050	.050	.050	.050	.050	.050	.050	.050	.050	.050
AUG	0850	74.0	--	--	--	2.9	.040	.04	.04	.04	.04	.04	.04	.040	.220	.220	.220	.220	.220	.220	.220	.220	.220	.220	.220
SEP	0852	3.0	--	--	--	1.1	.030	.06	.06	.06	.06	.06	.06	.030	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060
SEP	0855	83.0	--	--	--	2.3	.210	.47	.47	.47	.47	.47	.47	.210	.080	.080	.080	.080	.080	.080	.080	.080	.080	.080	.080

DATE	NITRO- GEN DISE- SOLVED (MG/L) AS N) (00602)	P-HOS- PHOS- TOTAL (MG/L) AS P) (00665)	P-HOS- PHOS- DISE- SOLVED (MG/L) AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L) AS C) (00580)	CARBON, ORGANIC DISE- SOLVED (MG/L) AS C) (00681)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLURO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT 22...	.17	.027	.019	3.6	--	13.1	3.1	14.4	--	--	7
OCT 22...	.11	.036	.028	3.0	--	1.7	2.5	2.9	--	--	20
NOV 20	.20	.029	.032	--	--	11.6	3.0	12.8	--	--	2
NOV 17...	.21	.034	.018	--	--	6.4	4.5	8.5	--	--	11
DEC 15...	.15	.020	.052	--	--	11.8	4.1	13.6	--	--	1
DEC 15...	.07	.048	.012	--	--	15.0	7.5	18.4	--	--	17
JAN 22...	.17	.031	.020	--	--	9.3	1.4	9.9	--	--	6
JAN 22...	.16	.052	.016	--	--	13.5	3.0	14.8	--	--	14
MAR 03...	.45	<.001	.019	--	--	34.6	2.8	35.5	--	--	3
MAR 03...	.18	<.001	.027	--	--	11.2	2.9	12.5	--	--	10
MAY 20...	.26	.041	.005	--	--	17.3	4.5	19.2	--	--	6
MAY 20...	1.5	.142	.025	--	--	49.6	5.4	51.6	--	--	4
JUL 15...	--	.044	.028	--	--	5.6	2.9	6.9	--	--	4
JUL 15...	.30	.032	.029	--	--	1.4	1.0	1.8	--	--	5
JUL 27...	.28	.049	<.001	--	--	--	--	--	--	--	1
JUL 27...	.60	.074	.055	--	--	.4	.4	.6	--	--	4
AUG 17...	.26	.087	.079	--	--	1.9	2.0	2.8	--	--	4
AUG 17...	.39	.151	.145	--	--	--	--	--	--	--	11
SEP 21...	.62	.063	.095	2.7	--	1.5	2.0	2.5	--	--	--
SEP 21...	.65	.102	.098	1.8	--	--	--	--	--	--	1

375248076094200 - CHESAPEAKE BAY NR POTOMAC RIVER OFFI SMITH POINT
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(000003)	SAMP- LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SILICA, DIS- SOLVED (MG/LI AS SI02)	(00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	(00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/LI AS N)	(00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/LI AS N)	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/LI AS N)	(00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/LI AS N)	(00607)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	(00625)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	(00623)	
OCT																						
	1410	132				.6		.010		.03		.130				.11		.41		.24		
	1415	2.0				.6		.010		.02		.020				.08		.27		.10		
NOV																						
	1150	2.0				.2		.010		.15		.050				.18		.21		.23		
	1155	130				.6		.010		.02		.060				.12		.57		.18		
DEC																						
	0900	2.0				.1		.010		.01		.050				.09		.11		.14		
	0905	117				.2		.000		.00		.110				.10		.21		.21		
JAN																						
	1710	2.0				.1		<.010		.02		.030				.08		.22		.11		
	1715	130				.1		<.010		.04		.100				--		.19		<.10		
MAR																						
	0855	3.0				<.1		.010		.22		.050				.10		.34		.15		
	0900	127				.1		<.010		.02		.120				.00		.41		.11		
MAY																						
	1135	130				.5		<.010		.01		.080				.21		.32		.29		
	1140	2.0				.1		<.010		.02		.040				.21		.35		.25		
JUL																						
	0830	3.0				1.7		<.010		.02		.030				.24		.46		.27		
	0835	90.0				2.8		<.010		.01		.170				.05		.44		.22		
AUG																						
	1210	3.0				1.2		<.010		.02		.040				.05		.31		.09		
	1225	107				2.7		.100		.11		.230				.02		.24		.25		
SEP																						
	0930	3.0				1.3		.020		.01		.050				.27		.38		.32		
	0935	120				2.2		.210		.48		.060				.12		.17		.18		

APPENDIX A-1

375248076094200 - CHESAPEAKE BAY NR POTOMAC RIVER OFFI SMITH POINT --CONT.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLURO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT 22...	.27	.031	.030	6.0	--	--	2.7	11.6	--	--	5
OCT 22...	.12	.036	.015	3.4	--	10.5	2.9	15.1	--	--	27
NOV 17...	.39	.028	.019	--	--	13.9	8.0	13.1	--	--	4
NOV 17...	.20	.062	.016	--	--	9.3	4.6	10.5	--	--	35
DEC 15...	.15	.005	.006	--	--	8.4	12.5	18.2	--	--	7
DEC 15...	.21	.005	.010	--	--	12.3	.6	10.2	--	--	23
JAN 22...	.13	.032	.019	--	--	10.0	5.3	17.8	--	--	4
JAN 22...	--	.040	.024	--	--	15.5	2.4	25.9	--	--	20
MAR 03...	.37	<.001	.013	--	--	25.1	6.8	17.3	--	3.3	6
MAR 03...	.13	.029	.019	--	--	14.2	2.5	15.9	--	2.4	35
MAY 20...	.30	.027	.003	--	--	14.9	2.1	41.7	--	--	7
MAY 20...	.27	.021	<.001	--	--	41.2	1.1	1.9	--	--	5
JUL 27...	.29	.043	.003	--	--	1.3	--	--	--	--	1
JUL 27...	.23	.040	.030	--	--	--	--	--	--	--	1
AUG 19...	.11	.087	.078	--	--	--	--	--	--	--	2
AUG 19...	.36	.147	.119	--	--	--	--	--	--	--	7
SEP 21...	.33	.064	.078	2.9	--	1.8	4.6	4.0	--	--	2
SEP 21...	.66	.104	.096	2.3	--	--	--	--	--	--	10

APPENDIX A-2.- Chlorophyll-a, pheophytin, dissolved oxygen, pH, specific conductance, temperature, and Secche depth data

01646580 APPENDIX A-2
 POTOMAC R AT CHAIN BRIDGE AT WASH, DC
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY-TIN A FLUORO-METRIC METHOD (UG/L) (32213)	CHLORO-PHYLL A FLUORO-METRIC METHOD UNCORR. (UG/L) (32217)
OCT					
15...	1145	1350	47.2	13.0	52.9
16...	2030	1350	6.3	5.1	8.7
23...	1035	1350	3.5	6.4	6.6
30...	1500	1350	1.5	3.1	3.0
NOV					
06...	1500	1350	5.5	2.7	6.8
10...	1610	1350	3.6	4.3	5.6
17...	0940	1350	1.7	2.4	2.9
17...	2000	1350	1.7	3.8	3.5
24...	1430	1350	3.8	2.7	5.0
24...	1530	1350	3.8	3.0	5.2
24...	1845	1350	3.3	2.9	4.6
25...	0945	1350	12.6	3.5	14.1
25...	0955	1350	11.9	3.4	13.4
25...	0900	1350	63.0	4.0	64.0
DEC					
01...	0950	1350	7.4	5.5	9.9
11...	1015	1350	3.4	3.2	5.0
19...	1250	1350	2.3	1.0	2.8
24...	1025	1350	2.2	.5	2.4
30...	1100	1350	2.9	.9	2.9
JAN					
05...	1035	1350	2.2	1.0	2.7
15...	1530	1350	1.2	.7	1.5
21...	1040	1350	1.5	.8	1.8
28...	1015	1350	2.2	1.0	2.7
29...	1400	1350	2.4	.8	2.7
30...	1500	1350	1.9	.8	2.3
FEB					
02...	1115	1350	5.0	2.7	6.3
03...	1300	1350	7.6	3.0	9.0
04...	1650	1350	10.7	4.1	12.6
07...	1640	1350	8.4	3.2	9.9
10...	1200	1350	7.2	2.5	8.3
11...	1300	1350	8.2	3.7	9.9
12...	1120	1350	30.0	8.1	33.5
13...	1915	1350	24.6	13.1	30.6
14...	1200	1350	14.3	5.9	17.0
15...	1625	1350	12.4	4.6	14.5
16...	1600	1350	13.5	6.4	16.4

APPENDIX A-2

--Cont.

01646580 - POTOMAC R AT CHAIN BRIDGE AT WASH, DC
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOCATION	CHLORO-PHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (00009) (32209)	PHEOPHYTTIN A FLUOROMETRIC METHOD CORR. (UG/L) (32213)	CHLORO-PHYLL A FLUOROMETRIC METHOD UNCORR. (UG/L) (32217)
FEB 17...	0945'	1350	10.8	4.0	12.6
18...	0950	1350	11.3	5.3	13.7
19...	1400	1350	11.9	4.7	14.0
20...	1605	1350	15.0	7.1	18.2
21...	1000	1350	23.0	8.4	26.8
21...	1245	1350	69.5	25.3	80.8
21...	1710	1350	97.0	37.9	114
21...	1910	1350	92.8	42.4	112
22...	0842	1350	91.9	46.6	113
22...	0945	1350	99.0	50.4	122
23...	1040	1350	38.3	20.3	47.6
23...	1105	1350	41.2	15.7	48.3
23...	1150	1350	42.0	20.8	51.5
24...	1100	1350	38.0	23.4	48.9
24...	1245	1350	41.0	23.9	52.0
24...	2210	1350	37.0	27.9	50.0
25...	1400	1350	24.5	19.8	33.8
25...	1500	1350	28.1	16.3	35.6
26...	1445	1350	16.7	14.2	23.4
26...	1505	1350	16.5	14.4	23.2
27...	0900	1350	10.7	10.8	15.8
27...	1310	1350	11.5	9.8	16.0
28...	1310	1350	7.7	7.7	11.3
28...	1335	1350	8.3	5.6	10.8
MAR 01...	1135'	1350	7.6	7.2	11.0
02...	1835'	1350	6.6	6.6	9.7
03...	1428	1350	6.2	5.2	8.6
03...	1530	1350	6.0	5.1	8.4
04...	1910	1350	4.9	3.4	6.5
05...	1943	1350	5.0	3.3	6.6
07...	1200	1350	4.5	2.7	5.8
08...	1710	1350	3.4	2.7	4.6
09...	1720	1350	2.6	2.3	3.7
10...	1110	1350	2.5	2.4	3.7
10...	1650	1350	3.0	2.4	4.1
12...	1525	1350	3.4	3.1	4.8
13...	1535	1350	4.3	2.7	5.6
14...	1615	1350	5.0	3.5	6.6
15...	1335	1350	5.1	2.9	6.4

01646580 POTOMAC R AT CHAIN BRIDGE, AT WASH, DC
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOCATION CROSS SECTION (FT FM L BANK) (00009)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY-TIN A FLUORO-METRIC METHOD (UG/L) (32213)	CHLORO-PHYLL A FLUORO-METRIC METHOD UNCORR. (UG/L) (32217)
MAR					
16...	1220	1350	7.4	2.7	8.6
16...	1445	1350	7.0	3.2	8.5
18...	1225	1350	7.9	3.8	9.7
19...	1715	1350	5.6	2.0	6.5
20...	0905	1350	4.9	1.8	5.7
21...	1310	1350	5.1	1.7	5.9
22...	1425	1350	5.7	1.6	6.4
23...	2023	1350	6.5	2.7	7.7
24...	2014	1350	6.9	2.4	8.0
25...	2010	1350	7.8	3.1	9.2
26...	1350	1350	9.1	2.8	10.3
27...	1330	1350	10.4	3.3	11.8
29...	1350	1350	12.0	3.8	13.6
30...	1735	1350	18.9	5.6	21.3
APR					
01...	1610	1350	38.0	10.4	42.5
02...	1610	1350	43.0	9.8	47.2
03...	1400	1350	56.7	7.2	59.3
03...	1640	1350	57.2	9.4	60.9
04...	1330	1350	72.2	6.0	74.1
05...	1000	1350	80.0	20.9	89.0
07...	1845	1350	74.6	16.3	81.4
08...	1155	1350	69.8	15.1	76.2
08...	1305	1350	66.7	10.8	71.0
09...	1420	1350	80.6	14.0	86.2
11...	1015	1350	84.5	16.4	91.2
12...	1700	1350	115	17.0	122
13...	2130	1350	116	21.4	125
14...	0020	1350	78.2	55.7	104
14...	1515	1350	75.5	77.0	112
14...	1526	1350	16.2	11.8	21.7
14...	1920	1350	61.6	62.8	91.2
15...	1530	1350	45.4	48.2	68.2
15...	1800	1350	31.4	34.6	47.7
16...	1030	1350	30.9	24.6	42.4
16...	1510	1350	26.5	22.9	37.2
15...	1520	1350	27.3	20.0	36.7
17...	1513	1350	21.5	18.2	30.0
19...	1430	1350	11.1	13.0	17.3
19...	1200	1350	16.1	11.7	21.6

01646580 -- POTOMAC R AT CHAIN BRIDGE, AT WASH, DC
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOCATION CROSS SECTION (FT FM L RANK) (00009)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY-TIN A FLUORO-METRIC METHOD (UG/L) (32213)	CHLORO-PHYLL A FLUORO-METRIC METHOD UNCORR. (UG/L) (32217)
APR					
20...	1130	1350	26.7	8.2	30.3
28...	1125	1350	37.2	4.5	38.8
MAY					
02...	1420	1350	41.1	12.7	46.7
06...	1155	1350	73.7	4.9	75.0
07...	1350	1350	32.7	12.9	38.5
08...	0550	1350	21.9	10.3	26.6
08...	1835	1350	23.7	7.2	26.8
09...	0550	1350	17.8	7.6	21.3
09...	1640	1350	19.6	7.3	22.8
10...	0705	1350	19.2	7.4	22.5
10...	1720	1350	22.5	8.4	26.2
11...	0620	1350	22.9	10.1	27.5
12...	1340	1350	24.1	14.8	30.9
13...	1445	1350	24.8	8.0	28.4
14...	0850	1350	33.9	18.7	42.4
14...	1330	1350	28.0	11.1	33.0
16...	1050	1350	10.8	14.9	17.9
18...	1300	1350	12.0	10.9	17.1
19...	0725	1350	8.8	10.2	13.6
20...	1255	1350	10.8	7.6	14.3
22...	0945	1350	10.4	6.3	13.3
22...	1930	1350	11.4	11.3	16.7
26...	1655	1350	11.6	6.3	11.8
27...	1050	1350	161	23.0	169
29...	1300	1350	48.4	17.2	56.0
30...	1745	1350	78.9	10.4	82.8
31...	1600	1350	52.3	36.4	69.2
JUN					
01...	1240	1350	26.4	20.5	36.0
02...	0945	1350	23.0	31.6	38.0
05...	1340	1350	5.0	9.1	9.3
06...	1730	1350	9.3	14.2	16.0
07...	1800	1350	5.4	9.7	10.1
08...	1315	1350	4.6	8.1	8.4
11...	1035	1350	3.7	6.5	6.8
17...	1610	1350	6.6	9.8	10.8
22...	1300	1350	9.1	9.1	13.4
26...	1425	1350	19.2	9.6	23.5
30...	1100	1350	11.9	15.2	19.1

01546580 - POTOMAC R AT CHAIN BRIDGE, AT WASH, DC
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUL					
02...	1255	1350	10.3	15.2	17.6
04...	1740	1350	11.2	13.6	17.6
06...	1310	1350	10.9	9.8	15.5
08...	1400	1350	46.2	19.9	55.2
10...	1255	1350	2.7	10.1	7.6
11...	0819	1350	9.9	14.0	16.5
11...	1545	1350	13.1	11.4	18.4
12...	0700	1350	15.0	11.9	20.6
12...	1545	1350	11.9	9.9	16.5
13...	0545	1350	8.0	11.0	13.2
13...	2130	1350	8.2	14.3	15.0
14...	0600	1350	16.0	21.6	26.2
14...	1550	1350	14.5	16.0	22.0
15...	0845	1350	7.0	9.8	11.7
15...	1900	1350	14.5	11.4	19.3
16...	0600	1350	10.8	10.6	15.8
17...	1400	1350	20.0	15.0	27.0
20...	1350	1350	16.7	9.4	21.0
23...	1240	1350	21.3	14.6	28.0
25...	1015	1350	22.7	19.2	31.7
28...	1155	1350	33.5	14.4	40.0
30...	1400	1350	16.9	19.4	26.1
AJG					
03...	0640	1350	99.4	27.7	111
03...	1600	1350	117	21.7	125
04...	0550	1350	62.7	32.8	77.7
04...	1555	1350	69.4	25.9	81.0
05...	0545	1350	51.1	28.2	64.0
05...	1540	1350	57.4	15.4	64.0
06...	0725	1350	51.0	28.3	64.0
06...	1500	1350	46.1	41.1	65.4
07...	0605	1350	31.0	32.6	46.3
07...	1545	1350	34.0	15.2	40.9
10...	1810	1350	92.5	15.6	98.8
11...	0745	1350	90.9	22.4	100
11...	1610	1350	91.8	17.7	99.1
12...	0850	1350	82.0	32.3	96.5
12...	1330	1350	70.8	21.9	80.4
12...	1945	1350	55.7	23.7	66.4
16...	1850	1350	26.7	11.9	32.1

APPENDIX A-2

---Cont.

01646580 - POTOMAC R AT CHAIN BRIDGE, AT WASH, DC
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOCATION CROSS SECTION (FT FM L' BANK) (00009)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY-TIN A FLUORO-METRIC METHOD (UG/L) (32213)	CHLORO-PHYLL A FLUORO-METRIC METHOD UNCORR. (UG/L) (32217)
AUG					
18...	1010	1350	64.8	44.8	85.6
21...	1700	1350	13.0	11.7	18.4
25...	1605	1350	10.2	8.9	14.3
26...	1600	1350	9.6	11.8	15.2
27...	1450	1350	9.6	10.4	14.5
28...	1400	1350	10.6	8.2	14.4
29...	1400	1350	12.5	8.8	16.6
30...	1040	1350	8.8	11.6	14.3
31...	1145	1350	6.4	8.3	10.3
SEP					
01...	1100	1350	5.6	6.2	8.5
02...	1310	1350	8.0	7.8	11.6
04...	1215	1350	3.2	6.7	6.4
08...	1500	1350	3.0	5.0	5.4
10...	1030	1350	1.9	5.6	4.6
11...	1445	1350	1.9	2.8	3.2
15...	1230	1350	2.4	3.4	4.0
18...	1520	1350	2.2	3.7	3.9
21...	1520	1350	2.3	3.5	4.0
22...	1530	1350	2.8	3.2	4.3
24...	1420	1350	1.9	2.9	3.2

APPENDIX A-2

385315077031800 -- POTOMAC RIVER AT MEMORIAL BRIDGE

WATER QUALITY DATA - WATER YEAR: OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	LOC- ATION CROSS SECTION (FT FM L BANK)	SPE- CFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLRO- PHYLLA FLURO- METRIC METHOD CORR. (UG/L)	CHLRO- PHYLLA FLURO- METRIC METHOD UNCORR. (UG/L)	PHEOPY -TIN A FLURO- METRIC METHOD (UG/L)	CHLRO- PHYLLA FLURO- METRIC METHOD (32213)
(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32217)	(32213)	(32217)	(32213)	(32217)
OCT												
02...	1150	18.0	475	462	7.7	21.5	54.0	7.5	--	--	--	--
02...	1152	10.0	475	462	7.7	21.9	--	8.0	--	--	--	--
02...	1154	1.0	475	462	7.8	21.9	--	8.1	--	--	--	--
02...	1200	--	50000	--	--	--	--	--	3.4	4.3	2.0	4.3
02...	1205	18.0	1180	461	7.7	21.4	42.0	7.8	1.7	3.3	3.4	3.3
02...	1206	11.0	1180	461	7.7	21.3	--	7.9	1.7	2.8	2.3	2.8
02...	1207	6.0	1180	462	7.8	21.8	--	7.7	4.0	5.0	2.1	5.0
02...	1208	1.0	1180	462	7.8	21.8	--	8.0	4.3	5.2	2.0	5.2
02...	1210	--	475	--	--	--	--	--	4.3	5.6	2.7	5.6
DEC												
16...	1700	17.0	475	337	8.6	4.2	73.0	12.9	--	--	--	--
16...	1702	1.0	475	337	8.6	4.2	--	13.3	--	--	--	--
16...	1703	--	1180	--	--	--	--	--	2.7	3.6	2.0	3.6
JUL												
08...	2350	--	50000	--	--	--	--	--	51.4	58.3	15.8	58.3
08...	2351	--	475	--	--	--	--	--	49.8	57.8	18.1	57.8
08...	2352	19.0	475	325	8.3	27.7	--	8.3	52.0	58.9	15.9	58.9
08...	2353	10.0	475	323	8.3	27.9	--	8.4	52.0	60.5	19.1	60.5
08...	2354	2.0	475	323	8.3	27.9	--	8.4	55.4	61.7	14.7	61.7
08...	2357	--	1180	--	--	--	--	--	48.5	55.4	15.7	55.4
08...	2358	2.0	1180	323	8.3	27.8	--	8.4	--	--	--	--
08...	2359	10.0	1180	323	8.3	27.9	--	8.4	--	--	--	--
08...	2400	18.0	1180	324	8.3	27.8	--	8.4	--	--	--	--
20...	0920	21.0	475	305	7.7	27.6	36.0	6.1	16.5	22.5	12.8	22.5
20...	0921	15.0	475	300	8.2	28.0	--	8.0	38.5	44.6	13.8	44.6
20...	0922	10.0	475	295	8.2	27.6	--	8.1	40.0	45.0	11.5	45.0
20...	0923	5.0	475	296	8.4	28.1	--	8.6	53.4	60.0	15.2	60.0
20...	0924	1.0	475	296	8.4	28.0	--	8.6	54.6	58.8	10.4	58.8
20...	0925	--	475	--	--	--	--	--	45.8	52.1	14.2	52.1
20...	0930	--	50000	--	--	--	--	--	38.4	43.8	12.3	43.8
20...	0932	--	1180	--	--	--	--	--	33.3	38.6	11.8	38.6
20...	0933	18.0	1180	306	7.7	27.5	48.0	6.1	--	--	--	--
20...	0934	15.0	1180	304	8.1	27.9	--	7.6	--	--	--	--
20...	0935	10.0	1180	306	8.2	28.0	--	8.1	--	--	--	--
20...	0936	5.0	1180	305	8.3	28.2	--	8.4	--	--	--	--
20...	0937	1.0	1180	305	8.3	28.2	--	8.5	--	--	--	--
20...	2114	19.0	475	--	--	--	--	--	23.2	46.5	18.0	46.5
20...	2115	21.0	475	311	7.6	27.7	--	5.5	--	--	--	--
20...	2116	15.0	475	308	8.3	28.5	--	8.8	42.4	46.0	8.7	46.0
20...	2117	10.0	475	306	8.4	28.6	--	9.6	54.3	57.4	8.0	57.4

APPENDIX A-2

385315077031900 - POTOMAC RIVER AT MEMORIAL BRIDGE --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLLA FLURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUL 20...	2118	1.0	475	306	8.5	28.7	---	10.0	---	---	---
20...	2119	2.0	475	---	---	---	---	---	58.5	7.9	61.5
20...	2120	---	475	---	---	---	---	---	50.2	4.4	51.6
20...	2135	19.0	1190	310	8.0	28.1	---	7.3	---	---	---
20...	2136	15.0	1190	308	8.2	28.4	---	8.4	---	---	---
20...	2137	10.0	1190	307	8.4	28.6	---	9.4	---	---	---
20...	2138	1.0	1190	306	8.5	28.7	---	9.9	---	---	---
20...	2139	---	1190	---	---	---	---	---	53.0	5.7	55.0
20...	2140	---	50000	---	---	---	---	---	48.5	8.6	51.9
21...	0810	17.0	475	299	7.7	28.1	42.0	5.5	21.3	7.7	24.8
21...	0811	10.0	475	306	8.0	28.4	---	6.4	26.6	7.4	29.8
21...	0812	2.0	475	305	8.1	28.6	---	7.2	28.8	7.9	32.2
21...	0813	---	475	---	---	---	---	---	25.6	6.8	28.5
21...	0815	---	50000	---	---	---	---	---	30.0	9.2	34.0
21...	0816	17.0	1190	297	7.7	28.2	36.0	5.5	---	---	---
21...	0817	13.0	1190	305	5.6	28.4	---	7.7	---	---	---
21...	0818	10.0	1190	304	8.3	28.7	---	7.7	---	---	---
21...	0819	1.0	1190	308	8.3	28.8	---	7.9	---	---	---
21...	0820	---	1190	---	---	---	---	---	33.3	8.7	37.1
21...	1929	19.0	475	---	---	---	---	---	22.0	9.4	26.2
21...	1930	16.0	475	312	7.6	28.6	30.0	5.1	---	---	---
21...	1931	10.0	475	311	8.0	28.8	---	6.3	30.0	6.2	32.6
21...	1932	5.0	475	310	8.4	29.5	---	8.4	---	---	---
21...	1933	1.0	475	306	8.6	30.1	---	9.6	46.5	6.6	49.0
21...	1934	---	475	---	---	---	---	---	38.0	7.3	41.0
21...	1945	---	50000	---	---	---	---	---	42.3	7.9	45.5
21...	1946	18.0	1190	318	7.4	28.4	32.0	4.3	---	---	---
21...	1947	10.0	1190	313	8.2	29.0	---	7.3	---	---	---
21...	1948	1.0	1190	307	8.6	29.8	---	9.4	---	---	---
21...	1949	---	1190	---	---	---	---	---	47.1	6.7	49.7
22...	0828	18.0	475	310	7.6	28.2	42.0	5.5	18.8	9.9	23.3
22...	0829	10.0	475	310	7.7	28.3	---	5.7	18.5	8.3	22.2
22...	0830	1.0	475	310	7.7	28.3	---	5.7	21.2	10.6	26.1
22...	0831	---	475	---	---	---	---	---	19.3	9.5	23.6
22...	0840	---	50000	---	---	---	---	---	20.3	8.2	24.0
22...	0841	17.0	1190	311	7.7	28.3	42.0	5.9	22.1	9.3	26.2
22...	0842	---	1190	---	---	---	---	---	---	---	---
AUG 06...	1035	19.0	475	350	7.8	27.2	24.0	5.4	35.9	16.7	43.5
06...	1036	13.0	475	350	7.8	27.3	---	5.3	35.9	17.1	43.7

385315077031800 - POTOMAC RIVER AT MEMORIAL BRIDGE --Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CRDSS SECTION, (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG 06...	1037	7.0	475	350	7.8	27.3	--	5.3	36.7	15.1	43.5
06...	1038	1.0	475	350	7.8	27.2	--	5.4	37.8	15.5	44.7
06...	1039	--	475	--	--	--	--	--	38.7	18.1	46.9
06...	1050	--	50000	--	--	--	--	--	38.3	15.8	45.4
06...	1052	17.0	1180	350	7.9	27.2	27.0	5.7	--	--	--
06...	1053	4.0	1180	350	7.9	27.3	--	5.8	--	--	--
06...	1054	1.0	1180	350	7.9	27.2	--	5.8	--	--	--
06...	1055	--	1180	--	--	--	--	--	40.4	14.7	46.9
24...	1930	20.0	475	388	7.1	24.1	--	4.1	20.5	16.6	28.2
24...	1931	10.0	475	387	7.2	24.0	--	4.5	18.8	12.7	24.6
24...	1932	7.0	475	387	7.3	24.2	--	5.0	18.9	11.5	24.2
24...	1933	4.0	475	387	7.7	24.7	--	6.3	21.0	6.3	23.8
24...	1934	1.0	475	387	7.6	24.7	--	6.5	21.0	6.3	23.8
24...	1935	--	475	--	--	--	--	--	18.2	9.4	22.5
24...	1945	--	50000	--	--	--	--	--	20.0	10.3	24.7
24...	1946	--	1180	--	--	--	--	--	22.7	7.7	26.1
24...	1947	20.0	1180	389	7.3	24.1	--	4.7	--	--	--
24...	1948	10.0	1180	387	7.7	24.6	--	6.4	--	--	--
24...	1949	1.0	1180	387	8.0	24.9	--	7.5	--	--	--
25...	0925	20.0	475	390	6.3	24.1	26.0	5.2	17.4	17.2	25.5
25...	0926	10.0	475	389	6.3	24.0	--	5.2	13.4	10.8	18.4
25...	0927	4.0	475	389	6.3	24.0	--	5.3	14.5	10.4	19.4
25...	0928	1.0	475	389	6.3	24.0	--	5.3	13.6	10.0	18.2
25...	0929	--	475	--	--	--	--	--	12.3	10.0	17.0
25...	0930	--	50000	--	--	--	--	--	13.6	11.0	18.8
25...	0935	--	1180	--	--	--	--	--	14.2	11.5	19.6
25...	0936	1.0	1180	399	6.3	23.9	--	5.5	--	--	--
25...	0937	9.0	1180	390	6.3	23.9	28.0	5.5	--	--	--
25...	0938	18.0	1180	390	6.3	23.8	--	5.5	--	--	--
25...	1945	14.0	475	385	6.3	24.2	30.0	4.9	17.1	14.9	24.0
25...	1946	10.0	475	386	6.3	24.2	--	5.1	16.5	12.3	22.2
25...	1947	4.0	475	385	6.5	24.4	--	6.1	16.9	9.5	21.1
25...	1948	1.0	475	385	6.5	24.4	--	6.3	16.9	7.8	20.4
25...	1949	--	475	--	--	--	--	--	15.4	11.0	20.6
25...	1955	15.0	1180	386	6.3	24.2	29.0	5.2	--	--	--
25...	1956	8.0	1180	385	6.4	24.3	--	5.7	--	--	--
25...	1957	1.0	1180	384	6.6	24.5	--	6.6	--	--	--
25...	1958	--	1180	--	--	--	--	--	16.9	7.0	20.1
25...	2000	--	50000	--	--	--	--	--	16.1	9.9	20.6

385315077031800 - POTOMAC RIVER AT MEMORIAL BRIDGE ---Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	CHLORO- PHYLLIA FLUORO- METRIC CORR. (UG/L)	CHLORO- PHYLLIA FLUORO- METRIC METHOD UNCORR. (UG/L)	PH	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK)	OXYGEN, DIS- SOLVED (MG/L)	SPE- CIFIC CON- DUCTIV- ANCE (JMHOS)	SAMPLE LOC- ATION, CROSS SECTION (FT FM BANK)	PH	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLIA FLUORO- METRIC CORR. (UG/L)	CHLORO- PHYLLIA FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(00095)	(00009)	(00400)	(00010)	(00077)	(00300)	(32209)	(32217)
AUG 26...	0905	21.0	475	389	6.2	23.7	23.0	4.8	389	475	6.2	23.7	23.0	4.8	12.7	17.0
26...	0906	10.0	475	388	6.2	23.8	---	4.9	388	475	6.2	23.8	---	4.9	10.8	10.4
26...	0907	4.0	475	388	6.2	23.8	---	5.1	388	475	6.2	23.8	---	5.1	10.2	9.8
26...	0908	1.0	475	388	6.2	23.8	---	5.1	388	475	6.2	23.8	---	5.1	11.6	9.8
26...	0909	---	475	---	---	---	---	---	---	475	---	---	---	---	10.6	10.7
26...	0915	---	50000	---	---	---	---	---	---	50000	---	---	---	---	13.4	14.7
26...	0917	20.0	1190	388	6.1	23.7	23.0	4.8	388	1190	6.1	23.7	23.0	4.8	---	---
26...	0918	10.0	1180	388	6.1	23.8	---	4.8	388	1180	6.1	23.8	---	4.8	---	---
26...	0919	1.0	1190	388	6.2	23.8	---	5.0	388	1190	6.2	23.8	---	5.0	---	---
26...	0920	---	1190	---	---	---	---	---	---	1190	---	---	---	---	---	---
26...	1845	13.0	475	389	7.5	24.4	29.0	5.8	389	475	7.5	24.4	29.0	5.8	11.4	10.0
26...	1846	10.0	475	390	7.9	24.9	---	7.7	390	475	7.9	24.9	---	7.7	17.1	7.8
26...	1847	4.0	475	388	8.3	25.4	---	9.1	388	475	8.3	25.4	---	9.1	21.1	7.4
26...	1848	1.0	475	388	8.3	25.3	---	9.1	388	475	8.3	25.3	---	9.1	31.8	6.6
26...	1849	---	475	---	---	---	---	---	---	475	---	---	---	---	29.5	6.6
26...	1900	---	50000	---	---	---	---	---	---	50000	---	---	---	---	21.8	7.2
26...	1905	23.0	1190	389	7.4	23.8	32.0	5.0	389	1190	7.4	23.8	32.0	5.0	23.8	6.6
26...	1906	12.0	1180	389	7.5	24.2	---	6.3	389	1180	7.5	24.2	---	6.3	---	---
26...	1907	1.0	1190	389	7.8	24.5	---	7.6	389	1190	7.8	24.5	---	7.6	---	---
26...	1908	---	1190	---	---	---	---	---	---	1190	---	---	---	---	19.8	7.1
SEP 04...	0915	---	50000	---	---	---	---	---	---	50000	---	---	---	---	14.0	5.8
																23.0

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

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION, (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY- FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLLA FLOURO- METRIC METHOD UNCORR. (UG/L)	(32217)
OCT														
21...	0715	18.0	1800	462	7.8	16.2	26.0	9.8	36.3		13.5		42.3	
21...	0716	13.0	1800	--	--	--	--	--	37.5		13.6		43.6	
21...	0717	11.0	1800	462	7.9	16.3	--	10.0	--		--		--	
21...	0719	6.0	1800	461	7.9	16.2	--	10.0	39.4		13.0		45.1	
21...	0720	1.0	1800	462	7.9	16.2	--	10.0	40.2		11.0		45.0	
21...	0725	--	1800	--	--	--	--	--	38.7		14.1		45.0	
NOV														
18...	1545	21.0	1800	486	8.3	7.4	78.0	11.1	1.7		1.5		2.4	
18...	1546	11.0	1800	484	8.3	7.5	--	11.0	1.5		1.2		2.1	
18...	1547	2.0	1800	490	8.3	7.5	--	11.1	1.1		1.5		1.8	
DEC														
16...	1645	20.0	1800	346	8.6	4.6	60.0	12.8	1.9		1.4		2.6	
16...	1646	11.0	1800	346	8.6	4.7	--	13.0	2.1		1.4		2.8	
16...	1647	5.0	1800	346	8.6	4.7	--	13.0	2.1		1.6		2.8	
16...	1649	1.0	1800	346	8.6	4.7	--	13.0	1.8		1.6		2.6	
16...	1700	--	1800	--	--	--	--	--	1.8		1.4		2.4	
FER														
04...	0730	--	1800	--	--	--	--	--	2.5		1.4		3.1	
04...	0815	13.0	1800	445	8.4	.7	18.0	13.6	2.4		1.6		3.2	
04...	0817	3.0	1800	448	8.5	.5	--	13.2	2.5		1.4		3.2	
MAR														
04...	1055	--	1800	--	--	--	--	--	4.7		3.1		6.1	
04...	1100	17.0	1800	204	8.0	6.2	--	12.8	4.3		5.3		6.8	
04...	1102	10.0	1800	204	8.0	6.2	--	12.7	4.8		3.1		6.3	
04...	1104	2.0	1800	204	8.0	6.2	--	12.7	4.4		3.0		5.8	
APR														
15...	0647	19.0	1800	--	--	--	--	--	21.8		26.9		34.6	
15...	0650	13.0	1800	179	7.4	12.8	6.0	10.8	--		--		--	
15...	0652	6.0	1800	179	7.4	12.8	--	10.8	--		--		--	
15...	0654	2.0	1800	179	7.4	12.8	--	10.8	19.8		22.4		30.3	
15...	0655	--	1800	--	--	--	--	--	28.5		41.6		48.3	
MAY														
19...	0705	20.0	1800	242	7.4	18.2	30.0	8.7	10.6		8.2		14.4	
19...	0707	10.0	1800	242	7.4	18.2	--	8.5	10.9		7.2		14.2	
19...	0709	2.0	1800	242	7.4	18.2	--	8.6	10.7		7.7		14.3	
JUN														
30...	0820	23.0	1800	272	7.9	25.7	20.0	8.6	26.9		14.9		33.8	
30...	0821	15.0	1800	273	7.9	25.8	--	8.7	27.2		10.6		31.9	
30...	0822	7.0	1800	273	7.9	25.8	--	8.6	28.0		9.1		32.0	
30...	0823	2.0	1800	272	7.9	25.8	--	8.7	28.3		9.2		32.3	

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

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A METRIC METHOD CORR, (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR, (UG/L) (32217)
JUL											
15...	1815	16.0	1800	282	8.2	29.4	30.0	7.3	19.2	8.2	22.9
15...	1817	11.0	1800	282	8.4	29.6	---	7.9	25.0	5.9	28.5
15...	1819	7.0	1800	281	8.5	29.8	---	8.3	30.0	5.9	32.4
15...	1821	2.0	1800	281	8.6	29.9	---	8.6	34.1	5.3	36.2
28...	1402	16.0	1800	322	8.0	27.2	32.0	7.0	26.0	17.1	34.0
28...	1404	7.0	1800	319	8.3	27.2	---	7.8	30.9	14.9	37.7
28...	1407	1.6	1800	318	8.4	27.4	---	8.4	39.9	11.5	43.9
28...	1415	---	1800	---	---	---	---	---	32.1	14.3	38.5
AUG											
18...	1640	20.0	1800	377	7.5	26.3	25.0	5.5	33.6	24.4	45.0
18...	1642	13.0	1800	380	7.5	26.4	---	5.8	34.8	17.7	42.9
18...	1643	7.0	1800	390	7.8	26.7	---	6.5	40.9	11.9	46.0
18...	1644	5.0	1800	392	7.8	26.8	---	6.8	47.6	10.0	51.7
18...	1646	1.6	1800	391	8.5	27.7	---	10.0	55.9	2.3	56.2
18...	1650	---	1800	---	---	---	---	---	48.2	9.9	52.3
SEP											
10...	0740	21.0	1800	449	7.5	23.1	32.0	6.9	5.0	5.7	7.6
10...	0741	13.0	1800	447	7.5	23.3	---	7.0	5.0	5.5	7.5
10...	0742	7.0	1800	447	7.4	23.3	---	7.0	4.4	4.9	6.7
10...	0743	1.6	1800	447	7.4	23.4	---	7.0	5.0	5.0	7.4
16...	1210	3.0	1800	469	6.7	24.1	---	6.6	---	---	---
16...	1215	---	1800	---	---	---	---	---	2.1	5.4	4.6
22...	1055	13.0	1800	364	7.8	19.7	---	8.7	3.1	4.5	5.3
22...	1056	7.0	1800	365	7.8	20.1	---	8.7	4.0	3.1	5.4
22...	1059	1.6	1800	366	7.8	20.4	---	8.6	4.4	2.9	5.8

APPENDIX A-2

385039777012500 - POTOMAC RIVER AT GEISBORD POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- FNCY (SECHI DISK 1IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLLA FLUORO- METRIC METHOD CORR. (JG/L)	(32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	(32134)	CHLORO- PHYLLA FLUORO- METRIC METHOD (UG/L)	(32217)
OCT																				
02...	1225	36.0	375		432		6.9	22.3	24.0		4.9	17.9	13.0		17.0					
02...	1226	13.0	375		435		6.9	22.6			4.7	12.1	10.4		17.0					
02...	1227	6.0	375		437		6.8	22.7			4.9	11.4	11.0		16.6					
02...	1228	1.0	375		435		6.9	22.7			5.0	11.9	10.6		16.9					
02...	1230	--	5000		--		--	--			--	14.5	11.0		19.7					
02...	1235	6.0	2800		433		7.0	22.8	19.0		6.0	--	--		--					
02...	1236	1.0	2800		433		7.1	22.8			6.1	--	--		--					
02...	1237	--	2800		--		--	--			--	17.9	13.6		24.2					
21...	0750	34.0	375		493		7.1	17.6	17.0		7.9	30.4	10.9		35.3					
21...	0751	13.0	375		488		7.1	17.6			8.1	31.4	10.3		36.0					
21...	0752	6.0	375		489		7.1	17.6			8.0	33.3	8.4		36.9					
21...	0753	1.0	375		488		7.1	17.6			8.1	32.9	9.4		37.0					
21...	0755	--	375		--		--	--			--	30.0	9.8		34.3					
NOV																				
18...	1525	--	375		--		--	--			--	18.7	5.6		21.1					
18...	1530	31.0	375		482		8.0	8.6	24.0		10.5	14.5	5.4		16.9					
18...	1532	13.0	375		482		8.0	8.8			10.3	18.9	5.9		21.5					
18...	1534	2.0	375		482		8.0	8.8			10.3	20.0	5.8		22.5					
DEC																				
16...	1615	36.0	375		340		8.0	5.6			11.7	3.0	3.0		4.4					
16...	1617	22.0	375		342		7.9	5.7	36.0		11.7	3.0	2.9		4.3					
16...	1619	13.0	375		343		7.9	5.8			11.6	2.9	2.9		4.3					
16...	1621	6.0	375		343		7.9	5.7			11.6	3.0	2.7		4.3					
16...	1622	1.0	375		343		7.9	5.7			11.7	2.9	2.9		4.2					
16...	1623	--	375		--		--	--			--	3.0	2.8		4.3					
16...	1630	6.0	2800		340		8.4	4.7	72.0		12.4	--	--		--					
16...	1632	1.0	2800		341		8.4	4.7			12.6	2.4	1.7		3.2					
16...	1633	--	2800		--		--	--			--	2.7	2.8		4.0					
16...	1640	--	5000		--		--	--			--	--	--		--					
FER																				
04...	0835	40.0	375		512		8.0	1.4	36.0		13.3	3.3	1.2		3.8					
04...	0836	20.0	375		504		8.1	1.2			13.1	3.1	1.3		3.7					
04...	0837	3.0	375		501		8.3	1.0			13.1	2.9	1.3		3.5					
04...	0840	--	375		--		--	--			--	3.2	1.1		3.7					
MAR																				
04...	1030	--	375		--		--	--			--	3.9	2.6		5.1					
04...	1032	30.0	375		204		7.8	6.6	27.0		12.0	4.5	3.6		6.2					
04...	1034	18.0	375		205		7.8	6.6			12.0	4.4	2.5		5.6					
04...	1036	2.0	375		206		7.8	6.7			11.9	3.8	2.9		5.1					
APR																				
15...	0714	37.0	375		--		--	--			--	52.0	70.6		85.5					
15...	0715	32.0	375		217		7.4	13.4	9.0		10.3	23.0	22.4		33.5					
15...	0716	18.0	375		210		7.4	13.3			10.3	20.4	19.2		29.4					
15...	0717	2.0	375		201		7.4	13.2			10.5									

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE L/C- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLDRO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L)	PHEOPY -TIN A FLURO- METRIC METHOD (UG/L)	CHLDRO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
MAY	0730	39.0	375	234	7.2	17.7	23.0	7.6	11.9	9.9	16.6
19.00	0731	27.0	375	243	7.2	17.7	---	7.8	11.5	10.1	16.3
19.00	0732	18.0	375	243	7.2	17.7	---	7.9	11.0	9.7	15.5
19.00	0733	9.0	375	243	7.2	17.7	---	7.9	10.2	9.8	14.8
19.00	0734	2.0	375	242	7.2	17.7	---	7.9	9.8	8.2	13.6
JUN	0855	39.0	375	260	7.5	25.6	24.0	7.7	23.0	17.0	31.0
30.00	0856	34.0	375	271	7.4	25.7	---	7.7	21.2	15.2	28.2
30.00	0857	23.0	375	273	7.4	25.8	---	7.7	20.9	13.9	27.3
30.00	0858	13.0	375	276	7.3	26.0	---	7.5	20.0	12.5	25.8
30.00	0859	2.0	375	283	7.2	26.2	---	7.3	18.9	11.4	24.2
JUL	2249	---	375	---	---	---	---	---	25.5	9.0	29.5
08.00	2250	35.0	375	324	7.5	26.8	---	7.4	22.4	11.3	27.6
08.00	2251	22.0	375	324	7.7	27.1	---	8.0	27.0	8.3	30.6
08.00	2252	13.0	375	324	7.8	27.2	---	8.2	27.5	9.8	31.9
08.00	2253	6.0	375	320	7.8	27.3	---	8.2	29.0	7.3	32.1
08.00	2254	2.0	375	315	7.8	27.3	---	8.1	28.7	10.3	33.3
08.00	2255	---	50000	---	---	---	---	---	34.4	10.0	38.8
08.00	2310	2.0	2800	331	8.0	27.4	---	8.8	30.0	9.8	34.3
08.00	2311	---	2800	---	---	---	---	---	29.4	9.5	33.6
15.00	1200	3.0	375	---	---	---	---	---	33.9	17.9	42.1
20.00	0837	39.0	375	339	7.0	28.4	36.0	6.3	30.0	16.4	37.5
20.00	0838	22.0	375	339	7.1	28.5	---	6.3	30.0	19.8	39.2
20.00	0839	13.0	375	341	7.1	28.4	---	6.3	30.0	16.4	39.3
20.00	0840	6.0	375	341	7.1	28.4	---	6.3	31.0	18.9	39.7
20.00	0841	1.0	375	340	7.1	28.4	---	6.3	34.2	18.3	42.6
20.00	0842	---	375	---	---	---	---	---	37.1	14.8	43.8
20.00	0855	---	50000	---	---	---	---	---	---	---	---
20.00	0901	8.0	2800	299	7.5	28.4	---	6.8	---	---	---
20.00	0902	5.0	2800	301	7.5	29.0	---	6.8	---	---	---
20.00	0903	1.0	2800	301	7.5	29.1	---	6.8	---	---	---
20.00	0904	---	2800	---	---	---	---	---	41.9	18.7	50.4
20.00	2029	30.0	375	---	---	---	---	---	52.5	14.1	58.6
20.00	2030	33.0	375	297	7.9	28.6	30.0	6.3	49.8	13.5	55.6
20.00	2031	22.0	375	306	7.8	28.6	---	7.7	48.4	11.4	53.2
20.00	2032	13.0	375	315	7.7	28.6	---	7.5	45.5	12.3	50.8
20.00	2033	6.0	375	327	7.5	28.7	---	7.5	50.0	8.7	53.5
20.00	2034	1.0	375	308	7.8	28.7	---	7.7	46.9	11.1	51.6
20.00	2035	---	375	---	---	---	---	---	55.0	14.0	61.0
20.00	2045	---	50000	---	---	---	---	---	---	---	---

385039077012600 - POTOMAC RIVER AT GEISBORO POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLLI A FLUORO- METRIC CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC UNCORR. (UG/L) (32217)
JUL 20	2050	11.0	2800	294	7.9	28.9	19.0	7.8	--	--	--
20	2052	6.0	2800	298	7.9	29.6	--	8.0	--	--	--
20	2054	1.0	2800	300	7.8	29.9	--	7.7	--	--	--
20	2055	--	2800	--	--	--	--	--	65.0	14.3	71.0
21	0732	37.0	375	294	7.9	28.0	30.0	6.8	--	--	--
21	0734	30.0	375	--	--	--	--	--	40.6	19.2	49.4
21	0736	22.0	375	294	7.8	28.0	--	6.8	36.4	15.1	43.2
21	0737	13.0	375	294	7.8	28.0	--	6.6	35.1	16.1	42.4
21	0738	6.0	375	293	7.7	27.9	--	6.6	31.3	16.2	38.7
21	0739	1.0	375	291	7.7	27.9	--	6.5	32.3	15.0	39.1
21	0740	--	375	--	--	--	--	--	33.5	18.3	41.9
21	0745	--	50000	--	--	--	--	--	38.0	17.6	46.0
21	0747	6.0	2800	295	8.0	27.4	30.0	6.9	--	--	--
21	0748	3.0	2800	294	8.0	27.3	--	7.0	--	--	--
21	0749	1.0	2800	294	8.0	27.4	--	7.6	--	--	--
21	0750	--	2800	--	--	--	--	--	35.8	14.8	42.5
21	1825	36.0	375	298	7.9	28.9	28.0	7.0	--	--	--
21	1829	30.0	375	--	--	--	--	--	32.6	17.4	40.6
21	1831	22.0	375	298	8.2	28.9	--	7.6	40.7	18.8	49.3
21	1832	13.0	375	296	8.4	29.1	--	8.7	51.7	13.3	57.4
21	1833	6.0	375	295	8.3	29.2	--	8.3	44.8	14.8	51.3
21	1834	1.0	375	291	8.0	29.8	--	7.9	42.0	11.0	46.8
21	1835	--	375	--	--	--	--	--	43.0	15.7	50.0
21	1845	--	50000	--	--	--	--	--	45.9	13.0	51.6
21	1847	5.0	2800	296	8.5	28.8	30.0	9.5	--	--	--
21	1848	3.0	2800	295	8.7	29.2	--	10.2	--	--	--
21	1849	1.0	2800	295	8.7	29.3	--	10.6	--	--	--
21	1850	--	2800	--	--	--	--	--	59.1	8.5	62.3
22	0800	29.0	375	297	7.9	28.4	38.0	7.4	36.4	19.5	45.4
22	0801	22.0	375	299	7.8	28.3	--	7.1	34.0	20.5	43.4
22	0802	13.0	375	298	7.7	28.4	--	6.9	32.8	20.1	42.1
22	0803	6.0	375	299	7.8	28.3	--	7.0	30.0	20.0	39.3
22	0804	1.0	375	298	7.7	28.3	--	7.0	35.7	18.3	44.1
22	0805	--	375	--	--	--	--	--	33.8	19.5	43.0
22	0810	5.0	2800	297	8.4	28.0	30.0	8.9	--	--	--
22	0811	1.0	2800	297	8.4	27.9	--	8.8	48.6	19.9	57.5
22	0812	--	2800	--	--	--	--	--	34.0	21.1	43.8
22	0815	--	50000	--	--	--	--	--	31.7	14.2	38.1
28	1330	--	375	--	--	--	--	--	--	--	--

385039077012600 - POTOMAC RIVER AT SEISBROOK POINT ---Cont

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA METRIC CORR. (JG/L)	PHENOL METRIC METHOD (UG/L)	CHLORO- PHYLLA METRIC METHOD (MG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUL											
28...	1340	33.0	375	313	7.9	27.7	25.0	6.3	31.5	16.0	38.8
28...	1341	20.0	375	313	7.8	27.7		6.0	30.6	14.9	37.4
28...	1342	13.0	375	313	7.8	27.7		6.0	30.6	14.6	37.2
28...	1343	7.0	375	313	7.8	27.7		6.0	31.3	13.7	37.5
28...	1344	2.0	375	312	7.8	27.8		6.0	32.1	14.0	38.4
AUG											
06...	1115	--	50000	--	--	--	--	--	59.5	18.8	67.8
06...	1119	--	375	--	--	--	--	--	50.3	19.4	59.0
06...	1120	30.0	375	352	7.8	27.3	21.0	6.6	52.2	22.9	62.6
06...	1121	22.0	375	352	7.8	27.3		6.6	48.0	22.0	58.0
06...	1122	15.0	375	351	7.8	27.3		6.7	56.1	18.9	64.5
06...	1123	6.0	375	350	7.8	27.3		6.7	56.8	16.0	63.8
06...	1124	1.0	375	350	7.8	27.2		6.7	55.0	17.6	62.8
06...	1125	7.0	2800	343	8.0	26.8		7.3	--	--	--
06...	1126	1.0	2800	351	7.9	27.0		7.4	--	--	--
06...	1127	--	2800	--	--	--		--	68.0	13.4	73.5
18...	1620	--	375	--	--	--		--	45.9	17.1	53.6
18...	1622	33.0	375	352	7.5	26.3	24.0	5.9	34.8	24.2	46.0
18...	1623	26.0	375	351	7.4	26.3		6.0	38.1	21.5	48.1
18...	1624	20.0	375	350	7.4	26.4		6.0	37.2	19.6	46.2
18...	1625	13.0	375	344	7.7	26.5		7.5	47.0	18.9	55.5
18...	1626	7.0	375	339	7.9	27.0		8.1	55.6	15.8	62.5
18...	1627	1.5	375	325	8.4	27.7		9.7	69.0	14.6	74.1
18...	1628	3.0	375	337	8.0	27.3		8.4	61.2	13.7	67.0
24...	1900	29.0	375	411	7.3	24.6		7.0	54.7	11.6	59.5
24...	1902	10.0	375	411	7.5	24.7		7.8	60.5	11.5	65.2
24...	1904	4.0	375	408	7.5	24.7		7.9	56.2	14.9	62.7
24...	1906	1.0	375	410	7.6	24.7		8.0	59.5	16.2	66.5
24...	1914	--	375	--	--	--		--	53.4	12.2	58.6
24...	1915	--	50000	--	--	--		--	48.0	12.8	53.5
24...	1917	7.0	2800	398	7.5	24.6		6.8	--	--	--
24...	1918	1.0	2800	399	7.5	24.6		7.0	--	--	--
24...	1919	--	2800	--	--	--		--	33.4	14.4	39.9
25...	0850	33.0	375	399	6.3	24.3	19.0	6.6	32.4	20.0	41.6
25...	0851	20.0	375	406	6.3	24.3		6.6	--	--	--
25...	0852	10.0	375	407	6.3	24.3		6.5	36.4	20.3	45.7
25...	0853	4.0	375	409	6.3	24.3		6.6	35.5	18.1	43.8
25...	0854	1.0	375	411	6.3	24.3		6.5	38.4	18.5	46.8
25...	0855	--	375	--	--	--		--	35.9	18.9	44.6
25...	0900	--	50000	--	--	--		--	34.3	19.2	43.1

385039077012600 - POTOMAC RIVER AT GEISBORO POINT ---Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN; DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD (32217)
SEP 22...	0935	--	375	--	--	--	--	--	10.4	7.8	14.1	

APPENDIX A-2

384852077020500 - POTOMAC RIVER AT MARBURY POINT

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (000003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (000009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLLI A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)
OCT											
02....	1255	22.0	1200	435	6.8	22.9	26.0	5.1	12.2	13.0	18.3
02....	1256	9.0	1200	433	6.8	23.1	---	5.2	10.8	7.7	14.4
02....	1257	1.0	1200	429	6.8	23.2	---	5.3	8.3	6.0	11.0
02....	1320	18.0	2100	448	6.8	22.7	26.0	4.7	---	---	---
02....	1321	9.0	2100	445	6.8	22.7	---	4.6	---	---	---
02....	1322	1.0	2100	443	6.8	22.8	---	4.7	---	---	---
02....	1323	---	2100	---	---	---	---	---	---	---	---
02....	1323	---	2100	---	---	---	---	---	9.6	9.8	14.2
21....	0810	25.0	1200	501	6.8	17.8	28.0	7.2	18.8	7.8	22.3
21....	0811	9.0	1200	495	6.8	17.9	---	7.2	16.8	6.1	19.5
21....	0812	4.0	1200	491	6.9	18.0	---	7.2	15.0	7.2	18.3
21....	0813	1.0	1200	499	6.9	18.0	---	7.2	16.0	6.7	19.0
21....	0826	27.0	2100	488	6.9	18.0	---	7.3	---	---	---
21....	0827	9.0	2100	490	6.9	18.1	---	7.2	---	---	---
21....	0828	1.0	2100	488	7.0	20.1	---	7.4	---	---	---
21....	0829	---	2100	---	---	---	---	---	20.4	7.8	23.8
NOV											
18....	1455	21.0	1200	499	7.8	9.2	23.0	9.9	17.6	5.4	20.0
18....	1456	9.0	1200	499	7.8	9.3	---	9.8	17.5	5.7	20.0
18....	1457	2.0	1200	499	7.8	9.2	---	9.8	17.7	5.0	19.9
18....	1505	24.0	2100	496	7.8	9.2	29.0	10.0	---	---	---
18....	1506	9.0	2100	496	7.8	9.2	---	9.9	---	---	---
18....	1507	2.0	2100	495	7.8	9.2	---	9.9	---	---	---
18....	1508	---	2100	---	---	---	---	---	16.8	6.0	19.4
18....	1515	---	50000	---	---	---	---	---	16.2	6.0	18.9
DEC											
16....	1540	23.0	1200	339	7.9	6.3	29.0	11.3	2.9	3.8	4.7
16....	1541	16.0	1200	338	7.9	7.0	---	11.2	3.0	3.7	4.7
16....	1542	9.0	1200	339	7.9	7.8	---	11.2	2.9	3.4	4.5
16....	1543	4.0	1200	339	7.9	7.9	---	11.2	2.6	3.4	4.2
16....	1544	1.0	1200	339	8.0	7.9	---	11.2	2.7	3.5	4.4
16....	1545	---	1200	---	---	---	---	---	2.6	3.8	4.4
16....	1550	---	50000	---	---	---	---	---	2.8	3.6	4.5
16....	1556	25.0	2100	338	7.9	6.5	30.0	11.1	---	---	---
16....	1557	9.0	2100	338	8.0	7.4	---	11.2	---	---	---
16....	1558	1.0	2100	338	8.0	7.4	---	11.3	---	---	---
16....	1559	---	2100	---	---	---	---	---	2.9	3.7	4.6
FEB											
04....	0850	24.0	1200	506	8.1	2.3	48.0	12.9	4.0	1.5	4.7
04....	0851	13.0	1200	508	8.3	1.5	---	12.9	3.5	1.3	4.1
04....	0852	3.0	1200	507	8.3	1.5	---	12.9	3.4	1.4	4.0

384852077020500 - POTOMAC RIVER AT MARRIURY POINT --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(000003)	(000009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
FEB 04....	0855	--	1200	--	--	--	--	--	3.3	1.5	4.0
MAR 04....	1015	--	1200	--	--	--	--	--	5.7	4.2	7.6
04....	1020	23.0	1200	202	7.9	6.6	24.0	12.0	7.9	6.9	11.1
04....	1021	12.0	1200	202	7.9	6.6	--	12.0	5.4	4.8	7.7
04....	1022	2.0	1200	202	7.9	6.7	--	12.0	4.5	4.1	6.5
APR 15....	0730	26.0	1200	219	7.4	13.6	12.0	10.3	55.6	75.4	91.4
15....	0731	13.0	1200	216	7.4	13.6	--	10.3	23.0	24.8	34.7
15....	0732	2.0	1200	227	7.4	13.6	--	10.2	19.2	20.0	28.6
MAY 19....	0630	3.0	1200	--	--	--	--	--	7.8	12.3	13.6
JUN 30....	0920	3.0	1200	--	--	--	--	--	15.2	10.4	20.0
JUL 08....	2220	--	50000	--	--	--	--	--	25.6	7.9	29.0
08....	2222	21.0	1200	373	7.0	27.3	--	7.9	23.8	6.0	26.4
08....	2223	15.0	1200	360	7.2	27.3	--	8.2	24.7	5.6	27.1
08....	2224	7.0	1200	373	7.2	28.0	--	8.3	22.9	6.3	25.6
08....	2225	2.0	1200	328	7.9	28.7	--	8.6	25.4	7.2	28.6
08....	2226	--	1200	--	--	--	--	--	25.9	7.2	29.0
08....	2230	23.0	2100	350	7.4	27.1	--	8.0	--	--	--
08....	2231	16.0	2100	334	7.5	27.1	--	8.1	--	--	--
08....	2232	9.0	2100	323	7.5	27.2	--	8.2	--	--	--
08....	2233	2.0	2100	324	7.8	27.8	--	8.6	--	--	--
08....	2234	--	2100	--	--	--	--	--	24.0	8.1	27.6
15....	0800	4.0	1200	309	7.8	29.4	--	6.6	29.0	9.0	33.0
20....	0815	25.0	1200	318	7.0	28.6	30.0	5.8	36.8	28.1	49.8
20....	0816	16.0	1200	317	7.0	28.6	--	6.0	37.2	20.7	46.7
20....	0817	9.0	1200	317	7.0	28.6	--	6.1	36.7	20.3	46.0
20....	0818	1.0	1200	317	7.0	28.6	--	6.1	36.3	17.4	44.2
20....	0819	--	1200	--	--	--	--	--	35.5	21.4	45.4
20....	0825	--	50000	--	--	--	--	--	33.6	19.4	42.5
20....	0826	24.0	2100	314	6.9	28.6	34.0	5.3	--	--	--
20....	0827	12.0	2100	314	6.9	28.7	--	5.3	--	--	--
20....	0828	1.0	2100	314	6.9	28.6	--	5.4	--	--	--
20....	0829	--	2100	--	--	--	--	--	28.6	19.2	37.5
20....	1944	25.0	1200	328	7.1	28.6	21.0	6.7	42.0	18.8	50.5
20....	1946	16.0	1200	314	7.6	29.2	--	7.7	53.8	10.1	57.9
20....	1947	9.0	1200	314	7.6	29.3	--	7.8	53.5	11.9	58.5

384852077020500 - POTOMAC RIVER AT MARBURY POINT --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN))	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA FLUORO- METRIC CORR. (UG/L)	PHEOPHY- FLURO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUL 20...	1948	1.0	1200	321	7.5	29.3	---	7.7	51.0	11.8	56.0
20...	1949	---	1200	---	---	---	---	---	50.8	13.4	56.5
20...	2000	---	50000	---	---	---	---	---	50.3	12.5	55.6
20...	2002	26.0	2100	301	7.7	28.6	34.0	7.6	---	---	---
20...	2004	13.0	2100	308	7.6	29.2	---	7.9	---	---	---
20...	2006	1.0	2100	310	7.7	29.2	---	7.5	---	---	---
20...	2007	---	2100	---	---	---	---	---	53.5	15.0	60.0
21...	0712	25.0	1200	364	6.8	28.2	30.0	6.0	29.6	15.9	36.8
21...	0713	18.0	1200	322	7.2	28.2	---	6.3	34.6	17.4	42.5
21...	0714	12.0	1200	309	7.4	28.4	---	6.4	37.3	14.4	43.7
21...	0715	6.0	1200	304	7.5	28.5	---	6.4	37.0	16.3	44.4
21...	0716	1.0	1200	305	7.5	28.5	---	6.4	38.1	15.0	44.8
21...	0717	---	1200	---	---	---	---	---	34.3	15.7	41.4
21...	0720	24.0	2100	353	7.0	28.2	30.0	6.1	---	---	---
21...	0721	13.0	2100	301	7.6	28.7	---	6.5	---	---	---
21...	0722	1.0	2100	299	7.6	28.4	---	6.4	---	---	---
21...	0723	---	2100	---	---	---	---	---	---	---	---
21...	0730	---	50000	---	---	---	---	---	39.4	16.6	46.9
21...	1749	24.0	1200	---	---	---	---	---	33.6	16.9	41.3
21...	1750	22.0	1200	301	8.2	29.0	24.0	8.0	53.0	17.0	60.5
21...	1751	16.0	1200	301	8.2	28.9	---	8.0	49.7	16.4	56.9
21...	1752	9.0	1200	301	8.2	28.8	---	7.9	52.0	17.0	59.5
21...	1753	1.0	1200	301	8.3	32.0	---	8.5	55.9	13.4	61.6
21...	1754	---	1200	---	---	---	---	---	49.7	16.9	57.2
21...	1800	---	50000	---	---	---	---	---	52.0	17.0	59.5
21...	1805	20.0	2100	304	8.1	29.2	24.0	7.5	---	---	---
21...	1806	11.0	2100	299	8.3	28.9	---	8.4	---	---	---
21...	1807	1.0	2100	299	8.4	30.6	---	9.0	---	---	---
21...	1808	---	2100	---	---	---	---	---	---	---	---
22...	0735	23.0	1200	374	6.8	27.8	30.0	6.4	60.5	11.5	65.2
22...	0736	16.0	1200	334	7.3	28.1	---	6.6	28.4	21.3	38.3
22...	0737	9.0	1200	318	7.4	28.4	---	6.7	34.4	19.9	43.5
22...	0738	1.0	1200	308	7.6	28.8	---	7.0	33.8	20.2	43.1
22...	0739	---	1200	---	---	---	---	---	38.6	17.9	46.7
22...	0745	21.0	2100	301	7.9	28.2	30.0	7.4	30.8	18.0	39.1
22...	0746	10.0	2100	303	7.9	28.2	---	7.3	---	---	---
22...	0747	1.0	2100	304	7.8	28.7	---	7.3	---	---	---
22...	0748	---	2100	---	---	---	---	---	40.9	20.0	50.0
22...	0750	---	50000	---	---	---	---	---	36.4	19.8	45.4

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WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMP- L (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CFIC- CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLLI A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUL 28...	1430	--	1200	--	--	--	--	--	--	37.0	17.6	45.0
AUG 06...	1149	--	1200	--	--	--	--	--	--	51.3	26.4	63.4
06...	1150	25.0	1200	375	7.5	27.6	18.0	6.3	6.3	56.8	28.2	69.6
06...	1151	18.0	1200	375	7.5	27.7	--	6.3	6.3	50.7	23.2	61.2
06...	1152	12.0	1200	374	7.6	27.7	--	6.3	6.3	48.6	22.9	59.0
06...	1153	6.0	1200	374	7.6	27.7	--	6.4	6.4	55.4	24.3	66.4
06...	1154	1.0	1200	374	7.6	27.8	--	6.4	6.4	44.0	23.0	54.5
06...	1155	--	50000	--	--	--	--	--	--	58.3	24.0	69.1
06...	1204	24.0	2100	375	7.6	27.8	--	6.3	6.3	--	--	--
06...	1205	12.0	2100	375	7.6	27.8	--	6.3	6.3	--	--	--
06...	1206	1.0	2100	375	7.6	27.8	--	6.5	6.5	--	--	--
06...	1207	--	2100	--	--	--	--	--	--	51.2	23.4	61.8
18...	1554	--	1200	--	--	--	--	--	--	37.5	18.4	45.9
18...	1555	21.0	1200	363	7.3	26.3	24.0	5.6	5.6	31.2	25.9	43.4
18...	1556	13.0	1200	362	7.4	26.3	--	5.7	5.7	31.4	22.0	41.7
18...	1557	7.0	1200	361	7.4	26.4	--	5.9	5.9	34.0	18.8	42.6
18...	1558	5.0	1200	363	7.4	26.5	--	5.9	5.9	34.1	16.7	41.7
18...	1559	1.6	1200	359	7.7	26.9	--	7.5	7.5	49.4	13.1	55.0
18...	1600	--	50000	--	--	--	--	--	--	46.6	19.1	55.2
18...	1603	20.0	2100	355	7.6	26.4	--	6.9	6.9	--	--	--
18...	1604	10.0	2100	353	7.7	26.6	--	7.6	7.6	--	--	--
18...	1605	5.0	2100	352	8.0	27.1	--	8.4	8.4	--	--	--
18...	1606	1.6	2100	353	8.1	28.5	--	8.4	8.4	--	--	--
18...	1607	--	2100	--	--	--	--	--	--	53.3	18.0	61.2
24...	1830	--	50000	--	--	--	--	--	--	50.4	16.5	57.7
24...	1831	21.0	1200	416	7.1	24.5	27.0	6.2	6.2	49.8	24.7	61.1
24...	1832	10.0	1200	416	7.3	24.7	--	7.4	7.4	59.0	13.1	64.5
24...	1833	4.0	1200	413	7.6	25.4	--	8.5	8.5	67.8	10.6	71.9
24...	1834	1.0	1200	413	7.7	25.4	--	8.6	8.6	70.0	8.3	73.0
24...	1835	--	1200	--	--	--	--	--	--	54.7	12.5	60.0
24...	1840	25.0	2100	416	7.1	24.5	--	6.2	6.2	--	--	--
24...	1841	13.0	2100	415	7.2	24.3	--	7.1	7.1	--	--	--
24...	1842	1.0	2100	410	7.4	26.8	--	7.5	7.5	--	--	--
24...	1843	--	2100	--	--	--	--	--	--	48.8	17.5	56.5
25...	0815	25.0	1200	416	6.3	24.2	19.0	6.6	6.6	44.0	22.6	54.3
25...	0816	10.0	1200	423	6.3	24.3	--	6.6	6.6	36.9	17.8	45.0
25...	0817	4.0	1200	423	6.3	24.3	--	6.6	6.6	37.2	16.7	44.8
25...	0818	1.0	1200	422	6.3	24.3	--	6.7	6.7	35.2	17.6	43.3
25...	0819	--	1200	--	--	--	--	--	--	39.8	15.7	46.9

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (JMHS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCI DISK (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLLA FLUORO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/LT	(32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
AUG 25...	0820	24.0	---	50000	---	422	---	6.3	---	23.9	---	22.0	---	6.7	---	38.4	---	18.5	---	46.8	---
25...	0825	12.0	---	2100	---	419	---	6.3	---	24.3	---	---	---	6.6	---	---	---	---	---	---	---
25...	0827	1.0	---	2100	---	422	---	6.3	---	24.4	---	---	---	6.7	---	---	---	---	---	---	---
25...	0828	---	---	2100	---	---	---	---	---	---	---	---	---	---	---	41.1	---	16.2	---	48.4	---
25...	1845	25.0	---	1200	---	416	---	6.4	---	24.9	---	23.0	---	7.0	---	57.8	---	24.6	---	68.9	---
25...	1846	10.0	---	1200	---	414	---	6.6	---	25.1	---	---	---	7.7	---	54.4	---	20.0	---	63.3	---
25...	1847	4.0	---	1200	---	416	---	6.8	---	25.9	---	---	---	8.4	---	66.8	---	12.0	---	71.6	---
25...	1848	1.0	---	1200	---	415	---	6.8	---	26.1	---	---	---	8.5	---	67.3	---	15.1	---	73.6	---
25...	1849	---	---	1200	---	---	---	---	---	---	---	---	---	---	---	57.3	---	14.8	---	63.6	---
25...	1855	24.0	---	2100	---	415	---	6.4	---	24.9	---	22.0	---	6.5	---	---	---	---	---	---	---
25...	1856	12.0	---	2100	---	414	---	6.7	---	25.6	---	---	---	7.9	---	---	---	---	---	---	---
25...	1857	1.0	---	2100	---	414	---	6.9	---	28.8	---	---	---	8.1	---	---	---	---	---	---	---
25...	1858	---	---	2100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25...	1900	---	---	50000	---	---	---	---	---	---	---	---	---	---	---	61.8	---	12.2	---	66.8	---
26...	0802	26.0	---	1200	---	422	---	6.2	---	24.3	---	18.0	---	6.9	---	61.5	---	14.2	---	67.5	---
26...	0803	10.0	---	1200	---	419	---	6.3	---	24.4	---	---	---	7.0	---	60.6	---	29.0	---	73.8	---
26...	0804	4.0	---	1200	---	419	---	6.3	---	24.4	---	---	---	7.1	---	56.4	---	16.6	---	63.7	---
26...	0805	1.0	---	1200	---	419	---	6.3	---	24.4	---	---	---	7.1	---	57.2	---	18.4	---	65.2	---
26...	0806	---	---	1200	---	---	---	---	---	---	---	---	---	---	---	55.5	---	18.1	---	63.5	---
26...	0811	25.0	---	2100	---	418	---	6.3	---	24.6	---	19.0	---	6.8	---	51.9	---	19.4	---	60.5	---
26...	0812	12.0	---	2100	---	418	---	6.3	---	25.0	---	---	---	6.7	---	---	---	---	---	---	---
26...	0813	1.0	---	2100	---	420	---	6.3	---	27.4	---	---	---	6.8	---	---	---	---	---	---	---
26...	0814	---	---	2100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
26...	0815	---	---	50000	---	---	---	---	---	---	---	---	---	---	---	51.7	---	20.6	---	60.9	---
26...	1755	25.0	---	1200	---	416	---	7.4	---	24.8	---	---	---	---	---	51.5	---	18.0	---	59.5	---
26...	1756	10.0	---	1200	---	414	---	7.6	---	25.0	---	17.0	---	7.7	---	54.7	---	17.6	---	62.4	---
26...	1757	4.0	---	1200	---	419	---	7.9	---	25.2	---	---	---	8.8	---	60.4	---	16.4	---	67.5	---
26...	1758	1.0	---	1200	---	419	---	7.8	---	25.1	---	---	---	9.5	---	61.4	---	14.9	---	67.7	---
26...	1759	---	---	1200	---	---	---	---	---	---	---	---	---	9.6	---	77.1	---	11.1	---	81.4	---
26...	1800	---	---	50000	---	---	---	---	---	---	---	---	---	---	---	76.0	---	9.5	---	79.5	---
26...	1805	20.0	---	2100	---	414	---	7.7	---	25.0	---	20.0	---	8.7	---	65.9	---	13.6	---	71.6	---
26...	1806	10.0	---	2100	---	412	---	8.0	---	26.0	---	---	---	9.8	---	73.0	---	10.8	---	77.2	---
26...	1807	1.0	---	2100	---	421	---	7.5	---	29.6	---	---	---	7.7	---	---	---	---	---	---	---
26...	1808	---	---	2100	---	---	---	---	---	---	---	---	---	---	---	70.6	---	11.1	---	75.0	---
SEP 04...	0945	---	---	50000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
16...	1130	3.0	---	1200	---	510	---	6.5	---	23.9	---	---	---	6.0	---	35.4	---	14.1	---	41.9	---
16...	1131	---	---	1200	---	---	---	---	---	---	---	---	---	---	---	15.0	---	15.9	---	22.5	---
22...	1000	---	---	1200	---	---	---	---	---	---	---	---	---	---	---	11.7	---	9.1	---	16.0	---

01652590 - POTOMAC R AT ALEXANDRIA, VA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LCC- ATION, CROSS SECTION (FT FM L BANK)	(000009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCI DISK (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
02... 1325	13.0	300	445	6.7	22.7	26.0	4.9	9.8	7.5	13.3										
02... 1326	6.0	300	440	6.8	22.8	--	4.9	8.2	6.1	11.1										
02... 1327	1.0	300	440	6.8	22.8	--	4.9	9.5	6.5	12.5										
02... 1330	1.0	1000	429	6.8	22.9	30.0	4.8	--	--	--										
02... 1331	--	1000	--	--	--	--	--	8.0	6.2	10.9										
02... 1335	--	4000	--	--	--	--	--	8.0	6.2	10.9										
02... 1350	26.0	3100	416	6.7	22.6	30.0	4.8	7.0	6.6	10.1										
02... 1351	11.0	3100	415	6.8	22.7	--	4.8	6.6	5.3	9.0										
02... 1352	6.0	3100	413	6.7	22.8	--	4.8	4.7	5.1	7.2										
02... 1355	1.0	3100	419	6.7	22.8	--	4.7	4.0	6.4	7.1										
02... 1400	--	3000	--	--	--	--	--	9.4	6.4	11.4										
02... 1410	30.0	3800	420	6.7	22.6	25.0	4.4	--	--	--										
02... 1411	14.0	3800	413	6.7	22.7	--	4.7	--	--	--										
02... 1412	1.0	3800	410	6.6	23.0	--	5.3	--	--	--										
02... 1413	--	3800	--	--	--	--	--	6.8	6.1	9.7										
03... 1140	11.0	600	472	6.5	21.0	19.0	5.8	9.3	7.4	12.8										
03... 1141	6.0	600	473	6.5	21.2	--	5.5	10.2	7.5	13.8										
03... 1142	1.0	600	475	6.4	21.2	--	5.4	10.2	7.0	13.5										
03... 1145	32.0	3400	447	6.6	21.3	26.0	5.1	11.7	10.6	16.7										
03... 1146	11.0	3400	446	6.6	21.6	--	5.2	12.9	8.4	16.8										
03... 1147	6.0	3400	446	6.6	21.6	--	5.2	13.5	8.9	17.6										
03... 1148	1.0	3400	446	6.7	21.4	--	5.3	15.6	8.5	19.5										
15... 0940	--	4000	--	--	--	--	--	10.0	4.9	12.2										
15... 0941	30.0	3800	429	7.3	15.9	44.0	6.7	--	--	--										
15... 0942	15.0	3800	427	7.2	15.9	--	6.7	--	--	--										
15... 0943	3.0	3800	430	7.2	16.1	--	6.7	--	--	--										
15... 0944	14.0	3100	433	7.2	16.0	--	6.7	--	--	--										
15... 0945	8.0	3100	434	7.2	15.9	35.0	6.7	--	--	--										
15... 0947	3.0	3100	433	7.2	15.9	--	6.6	--	--	--										
15... 0955	--	3000	--	--	--	--	--	11.6	5.6	14.1										
15... 0957	3.0	1000	460	7.2	15.8	35.0	7.4	--	--	--										
15... 1000	12.0	300	466	7.2	15.9	36.0	7.3	--	--	--										
15... 1001	8.0	300	467	7.2	15.9	--	7.2	--	--	--										
15... 1002	3.0	300	480	7.1	16.1	--	7.4	--	--	--										
16... 2110	--	3700	--	--	--	--	--	19.6	5.6	22.0										
21... 0850	23.0	3100	471	6.9	17.4	26.0	7.1	13.4	9.8	17.9										
21... 0851	13.0	3100	472	6.9	17.5	--	7.1	14.5	7.2	17.8										
21... 0852	6.0	3100	472	6.9	17.4	--	7.1	14.5	8.2	18.2										
21... 0853	1.0	3100	472	6.9	17.4	--	7.2	13.0	9.1	17.2										

01652590 -- POTOMAC R AT ALEXANDRIA, VA. --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMP- LJG- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCI DISK) (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLDRO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY -TIN A FLURO- METRIC METHOD (UG/L)	(32213)	CHLDRO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)	(32217)
OCT																					
21...	0901	30.0		3800		476		6.8		17.5		30.0		7.0							
21...	0902	14.0		3800		476		6.8		17.5				7.0							
21...	0903	1.0		3800		476		6.8		17.5				7.0		11.9					
21...	0905			40000												13.6		7.80			15.5
21...	0915	13.0		600		500		6.9		17.3		18.0				25.9		7.60			17.1
21...	0916	6.0		600		502		6.9		17.4				7.7		26.0		8.20			29.5
21...	0917	1.0		600		501		6.9		17.3				7.7		26.4		8.50			29.8
21...	0930			600												26.5		7.70			29.7
27...	1029	22.0		3100		454		7.2		13.0				8.4				8.50			30.2
27...	1030			40000												20.7		13.0			26.7
27...	1031	12.0		3100		456		7.2		13.1				8.4							
27...	1032	3.0		3100		456		7.3		13.2				8.5							
27...	1045	22.0		3800		453		7.2		13.0				8.4							
27...	1046	12.0		3800		455		7.2		13.1				8.4							
27...	1047	3.0		3800		456		7.2		13.1				8.3							
27...	1114	12.0		300		476		7.3		12.9				9.3							
27...	1116	6.0		300		476		7.3		12.9				9.1							
27...	1117	3.0		300		475		7.3		12.9				9.1							
27...	1118	5.0		1000		473		7.4		12.8				9.8							
27...	1119	3.0		1000		473		7.3		12.9				9.1							
NOV																					
06...	1040	28.0		3400		479		7.6		12.3		41.0		8.0		9.1		7.20			12.4
06...	1041	15.0		3400		477		7.5		12.2				7.9		7.5		8.10			11.4
06...	1042	2.0		3400		478		7.5		12.3				8.1		8.3		5.10			10.6
06...	1130			600												11.4		4.60			13.5
06...	1135	11.0		600		513		7.3		12.6		41.0		8.2		12.3		3.80			14.0
06...	1136	6.0		600		516		7.2		12.9				8.1		12.9		3.90			14.6
06...	1137	2.0		600		524		7.2		13.0				8.1		12.3		3.10			13.6
10...	1405			600												15.1		4.80			17.2
10...	1410	8.0		600		529		7.9		13.8				8.6							
10...	1411	2.0		600		523		7.5		13.8				8.6							
10...	1445	25.0		3400		501		7.4		12.6				8.9							
10...	1446	2.0		3400		501		7.5		12.6				8.8							
10...	1500			3400																	
18...	1425	25.0		3100		513		7.6		9.8		28.0				15.0		4.80			17.1
18...	1426	11.0		3100		512		7.6		9.8				9.7		10.9		10.1			15.7
18...	1427	2.0		3100		513		7.6		9.7				9.8		9.3		6.90			12.6
18...	1430	31.0		3800		507		7.7		9.9		22.0		9.8		10.3		6.70			13.4
18...	1431	14.0		3800		507		7.7		9.9				9.8							
18...	1432	2.0		3800		508		7.7		9.8				9.7							

01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECKI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (322137)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)
NOV	1433	--	3600	--	--	--	--	--	8.7	8.2	12.6
1440	--	--	40000	--	--	--	--	--	9.1	8.2	12.9
1350	1350	32.0	3400	487	7.9	7.8	24.0	10.8	--	--	--
1351	1351	15.0	3400	488	7.9	7.7	--	10.7	--	--	--
1352	1352	2.0	3400	488	7.9	7.8	--	10.7	--	--	--
1355	1355	--	3400	--	--	--	--	--	6.5	6.7	9.6
1405	1405	--	600	--	--	--	--	--	6.1	3.9	7.9
1406	1406	10.0	600	510	7.3	9.1	--	10.5	--	--	--
1407	1407	2.0	600	518	7.3	9.3	--	10.3	--	--	--
1405	1405	25.0	3400	341	7.7	6.9	--	11.2	--	--	--
1408	1408	15.0	3400	351	7.6	7.0	--	11.2	--	--	--
1409	1409	3.0	3400	345	7.6	7.1	--	11.5	--	--	--
1410	1410	--	3400	--	--	--	--	--	8.9	6.9	12.1
1420	1420	--	600	--	--	--	--	--	13.2	5.6	15.7
1425	1425	6.0	600	344	7.5	7.1	--	11.5	--	--	--
1426	1426	2.0	600	339	7.5	7.0	--	11.6	--	--	--
1145	1145	--	3400	--	--	--	--	--	5.0	4.4	7.0
1150	1150	25.0	3400	321	7.8	6.0	25.0	11.3	--	--	--
1151	1151	12.0	3400	321	7.8	6.0	--	11.3	--	--	--
1152	1152	3.0	3400	320	7.7	6.0	--	11.3	--	--	--
1200	1200	--	600	--	--	--	--	--	6.4	4.1	8.3
1215	1215	9.00	600	353	7.3	7.4	25.0	10.7	--	--	--
1216	1216	6.00	600	358	7.3	7.4	--	10.7	--	--	--
1217	1217	3.00	600	362	7.3	7.6	--	10.6	--	--	--
1440	1440	13.0	300	374	7.6	6.6	30.0	10.7	3.7	2.8	5.0
1441	1441	6.0	300	374	7.6	6.6	--	10.8	3.7	2.9	5.0
1442	1442	1.0	300	375	7.6	6.6	--	10.8	3.7	2.9	5.0
1443	1443	--	300	--	--	--	--	--	3.7	4.8	6.0
1450	1450	4.0	1000	351	7.7	6.5	26.0	10.9	--	--	--
1451	1451	1.0	1000	359	7.7	6.5	--	11.0	--	--	--
1452	1452	--	1000	--	--	--	--	--	3.2	3.3	4.8
1455	1455	--	30000	--	--	--	--	--	3.7	3.6	4.8
1505	1505	30.0	3100	350	7.7	6.0	29.0	10.9	2.6	3.6	5.4
1506	1506	17.0	3100	348	7.8	6.0	--	10.9	2.5	6.1	5.6
1507	1507	11.0	3100	348	7.8	6.0	--	11.0	2.5	5.4	5.1
1508	1508	6.0	3100	348	7.8	6.1	--	11.0	2.5	5.3	5.0
1509	1509	1.0	3100	348	7.8	6.1	--	11.0	2.2	5.4	4.7
1510	1510	--	3100	--	--	--	--	11.0	2.5	5.0	4.9
1515	1515	31.0	3800	349	7.7	6.1	34.0	10.9	2.6	5.0	5.0

01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
DEC											
16...	1516	14.0	3800	348	7.8	6.1	--	10.9	--	--	--
16...	1517	1.0	3800	348	7.8	6.1	--	10.9	--	--	--
16...	1518	--	3800	--	--	--	--	--	2.6	4.9	4.9
16...	1530	--	40000	--	--	--	--	--	2.5	5.0	4.9
24...	1330	--	600	--	--	--	--	--	1.2	1.4	1.9
24...	1345	--	3400	--	--	--	--	--	3.5	4.3	5.5
29...	1010	25.0	3400	380	7.9	2.2	43.0	12.5	--	--	--
29...	1011	15.0	3400	379	7.8	2.1	--	12.5	--	--	--
29...	1012	3.0	3400	379	7.8	2.1	--	12.5	--	--	--
29...	1015	--	3400	--	--	--	--	--	3.0	2.5	4.2
29...	1024	10.0	600	419	7.4	2.4	38.0	12.0	--	--	--
29...	1025	5.0	600	418	7.4	2.4	--	12.0	--	--	--
29...	1026	3.0	600	418	7.4	2.4	--	11.9	--	--	--
29...	1030	--	600	--	--	--	--	--	1.9	2.0	2.8
JAN											
07...	1235	--	3400	--	--	--	--	--	2.6	2.2	3.6
15...	1315	--	3400	--	--	--	--	--	2.2	1.1	2.7
15...	1316	29.0	3400	491	7.4	1.1	--	10.9	2.1	1.3	2.7
15...	1317	16.0	3400	491	7.4	.9	--	10.9	--	--	--
15...	1318	3.0	3400	487	7.4	.8	--	10.9	2.2	1.0	2.6
15...	1320	--	600	--	--	--	--	--	1.7	.6	2.0
15...	1322	11.0	600	522	7.3	1.5	72.0	10.7	--	--	--
15...	1323	3.0	600	515	7.4	1.2	--	10.4	--	--	--
23...	1335	--	600	--	--	--	--	--	1.7	1.1	2.2
23...	1340	12.0	600	608	7.5	5.1	42.0	10.7	--	--	--
23...	1341	3.0	600	610	7.5	5.0	--	10.6	--	--	--
23...	1355	--	3400	--	--	--	--	--	2.3	2.3	3.4
23...	1400	26.0	3400	546	7.8	4.6	46.0	10.8	2.5	2.2	3.5
23...	1401	14.0	3400	546	7.8	4.6	--	10.8	--	--	--
23...	1402	3.0	3400	547	7.9	4.7	--	10.8	2.6	2.0	3.5
28...	1200	--	600	--	--	--	--	--	2.8	1.3	3.4
28...	1201	10.0	600	616	7.4	5.2	60.0	10.8	--	--	--
28...	1202	3.0	600	616	7.4	5.2	--	10.9	--	--	--
28...	1210	--	3400	--	--	--	--	--	4.2	1.9	5.1
28...	1220	28.0	3400	579	7.8	4.4	48.0	11.4	4.2	2.1	5.2
28...	1221	16.0	3400	577	7.8	4.3	--	11.3	--	--	--
28...	1222	3.0	3400	575	7.7	4.4	--	11.2	3.6	1.6	4.4
FEB											
02...	1418	12.0	600	604	7.5	4.0	66.0	11.1	--	--	--
02...	1419	3.0	600	605	7.5	4.1	--	11.1	--	--	--
02...	1420	--	600	--	--	--	--	--	4.4	1.2	4.9

01652590 -- POTOMAC R AT ALEXANDRIA, VA. ---Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCI DISK (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)
02...	1425	--	3400	--	--	--	--	--	4.0	1.7	4.8
02...	1426	28.0	3400	578	7.6	4.0	--	11.3	4.2	2.3	5.2
02...	1427	14.0	3400	578	7.5	4.0	--	11.3	--	--	--
02...	1428	3.0	3400	578	7.6	4.0	--	11.3	4.0	1.6	4.7
03...	1555	3.0	3400	516	8.2	2.8	--	12.1	4.0	1.9	4.8
04...	0915	31.0	3400	521	8.1	2.3	48.0	12.9	4.7	1.6	5.4
04...	0916	15.0	3400	520	8.2	2.2	--	12.9	4.4	1.4	5.0
04...	0917	2.0	3400	518	8.2	1.9	--	12.9	4.1	1.4	4.7
04...	0920	--	3400	--	--	--	--	4.3	4.3	1.6	5.0
04...	0950	--	600	--	--	--	--	4.5	4.5	1.1	4.9
04...	0955	12.0	600	556	7.5	2.2	48.0	14.1	4.1	1.4	4.8
04...	0956	3.0	600	555	7.6	2.4	--	13.7	4.4	1.2	4.9
11...	1115	12.0	600	445	7.2	4.5	18.0	11.1	--	--	--
11...	1116	2.0	600	446	7.1	4.4	--	11.2	--	--	--
11...	1120	--	600	--	--	--	--	--	6.0	4.7	8.2
11...	1145	33.0	3400	452	7.3	3.9	--	11.6	7.5	4.5	9.5
11...	1146	20.0	3400	448	7.3	3.8	--	11.6	7.2	4.7	9.3
11...	1147	2.0	3400	448	7.3	3.7	--	11.6	7.3	4.7	9.5
11...	1150	--	3400	--	--	--	--	--	7.8	4.5	9.9
12...	1445	--	3400	--	--	--	--	--	7.2	3.7	8.8
13...	2020	--	3700	--	--	--	--	--	7.2	4.3	9.2
14...	1240	--	3700	--	--	--	--	--	9.4	5.4	11.9
15...	1700	--	3700	--	--	--	--	--	9.7	5.7	12.4
16...	1645	--	3700	--	--	--	--	--	5.3	3.2	6.8
17...	1140	--	600	--	--	--	--	--	2.4	2.3	3.5
17...	1150	13.0	600	385	7.2	4.2	--	11.3	--	--	--
17...	1151	3.0	600	351	7.6	3.1	--	12.0	--	--	--
17...	1200	--	3400	--	--	--	--	--	4.4	3.6	6.0
17...	1210	29.0	3400	355	7.1	3.0	12.0	--	4.7	3.3	6.3
17...	1211	15.0	3400	367	7.2	2.6	--	--	3.9	3.5	5.5
17...	1212	3.0	3400	369	7.2	2.4	--	--	4.0	2.8	5.3
20...	1520	--	3700	--	--	--	--	--	6.0	4.1	7.9
23...	1225	--	600	--	--	--	--	--	19.5	7.4	21.8
23...	1226	13.0	600	252	6.9	9.3	12.0	10.1	--	--	--
23...	1227	3.0	600	247	6.9	9.1	--	10.3	--	--	--
23...	1300	--	3400	--	--	--	--	--	19.1	9.2	23.2
23...	1301	32.0	3400	249	7.0	8.4	12.0	10.6	--	--	--
23...	1302	16.0	3400	248	7.0	8.4	--	10.6	--	--	--
23...	1303	3.0	3400	252	7.0	9.0	--	10.4	--	--	--

01652590 - POTOMAC R AT ALEXANDRIA, VA. ---Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION (F- FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHDS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(000003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
24...	1315	--	600	--	--	--	--	--	7.7	4.9	10.0
24...	1316	13.0	600	298	7.2	8.3	--	10.6	--	--	--
24...	1317	3.0	600	303	7.1	8.5	--	10.5	--	--	--
24...	1400	--	3400	--	--	--	--	--	19.8	12.5	25.6
25...	1550	10.0	600	225	7.2	8.1	6.0	10.7	--	--	--
25...	1551	3.0	600	207	7.4	7.6	--	10.5	--	--	--
25...	1555	--	600	--	--	--	--	--	19.2	12.2	24.8
25...	1635	30.0	3400	160	7.6	7.0	6.0	11.6	--	--	--
25...	1636	15.0	3400	160	7.6	7.2	--	11.5	--	--	--
25...	1637	3.0	3400	161	7.6	7.1	--	11.5	--	--	--
25...	1640	--	3400	--	--	--	--	--	20.5	14.5	27.2
26...	1545	--	600	--	--	--	--	--	6.9	6.8	10.1
26...	1550	10.0	600	273	7.2	9.1	5.0	11.4	--	--	--
26...	1551	3.0	600	271	7.1	9.0	--	11.4	--	--	--
26...	1555	34.0	3400	180	7.5	7.2	5.0	12.3	--	--	--
26...	1556	15.0	3400	179	7.6	7.2	--	12.4	--	--	--
26...	1557	3.0	3400	180	7.5	7.2	--	12.4	--	--	--
26...	1600	--	3400	--	--	--	--	--	12.4	10.5	17.3
27...	1040	--	600	--	--	--	--	--	4.1	4.1	6.1
27...	1041	11.0	600	285	6.9	7.4	24.0	10.9	--	--	--
27...	1042	3.0	600	283	7.0	7.3	--	10.9	--	--	--
27...	1051	27.0	3400	158	7.5	6.2	--	12.1	--	--	--
27...	1052	14.0	3400	158	7.5	6.2	--	12.1	--	--	--
27...	1053	3.0	3400	158	7.5	6.3	--	12.1	--	--	--
28...	1050	--	3400	--	--	--	--	--	6.8	5.6	9.4
28...	1415	--	3700	--	--	--	--	--	4.4	3.8	6.1
MAR											
04...	0945	--	600	--	--	--	--	--	1.7	2.4	2.8
04...	0946	13.0	600	301	7.0	8.2	24.0	11.2	2.0	3.4	3.6
04...	0947	2.0	600	303	6.9	8.2	--	10.6	1.7	2.7	3.0
04...	1000	--	3400	--	--	--	--	--	4.9	4.8	7.2
04...	1001	30.0	3400	203	7.8	7.5	24.0	11.9	6.4	7.4	9.9
04...	1002	15.0	3400	203	7.8	7.5	--	11.7	6.0	6.6	9.6
04...	1003	2.0	3400	204	7.8	7.8	--	11.7	4.0	4.0	6.2
11...	1015	--	600	--	--	--	--	--	5.1	2.7	6.4
11...	1016	11.0	600	266	7.2	6.5	--	11.3	--	--	--
11...	1017	7.0	600	281	7.0	6.9	--	11.0	--	--	--
11...	1018	3.0	600	265	7.2	6.3	--	11.3	--	--	--
11...	1030	--	3400	--	--	--	--	--	8.7	6.4	11.7
11...	1031	29.0	3400	245	7.5	6.0	24.0	11.4	--	--	--

01652590 - POTOMAC R AT ALEXANDRIA, VA. ---Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLI A FLUORO- METRIC CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLOURO- METRIC METHOD UNCORR. (UG/L)
		(000003)	(000009)	(000095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
MAR											
11...	1032	16.0	3400	245	7.6	6.1	---	11.4	---	---	---
11...	1033	7.0	3400	245	7.6	6.1	---	11.3	---	---	---
11...	1034	3.0	3400	245	7.6	6.2	---	11.4	---	---	---
18...	0700	28.0	3400	299	7.7	6.0	27.0	10.6	8.5	3.4	10.0
18...	0701	20.0	3400	285	7.7	5.9	---	10.4	8.4	4.0	10.2
18...	0702	14.0	3400	285	7.7	5.9	---	10.3	8.1	3.7	9.8
18...	0703	8.0	3400	285	7.6	5.9	---	10.4	8.2	3.5	9.8
18...	0704	2.0	3400	294	7.6	5.9	---	10.3	8.5	3.2	10.0
18...	0720	11.0	600	306	7.5	5.7	30.0	10.3	8.9	2.6	10.0
18...	0721	6.0	600	306	7.5	5.7	---	10.2	9.0	2.8	10.3
18...	0722	2.0	600	307	7.5	5.6	---	10.1	8.7	3.0	10.0
24...	1115	33.0	3400	290	7.7	6.4	35.0	11.1	12.3	3.7	13.9
24...	1116	15.0	3400	280	8.0	6.4	---	11.1	10.9	3.6	12.5
24...	1117	3.0	3400	280	8.0	6.6	---	11.1	13.1	2.6	14.2
24...	1118	---	3400	---	---	---	---	---	13.0	1.7	13.7
25...	1530	---	3400	---	---	---	---	---	18.6	5.1	20.8
25...	1535	27.0	3400	280	8.1	7.2	30.0	11.8	---	---	---
25...	1537	15.0	3400	281	8.3	7.2	---	12.1	---	---	---
25...	1539	3.0	3400	282	8.4	7.4	---	12.2	---	---	---
25...	1550	---	600	---	---	---	---	---	8.8	2.3	9.8
25...	1551	9.0	600	331	7.6	8.6	36.0	11.6	---	---	---
25...	1552	3.0	600	338	7.9	8.6	---	11.3	---	---	---
31...	1340	---	600	---	---	---	---	---	23.2	5.7	25.6
31...	1341	9.0	600	334	7.6	12.7	22.0	9.7	---	---	---
31...	1342	3.0	600	338	7.8	13.4	---	9.9	---	---	---
31...	1350	---	3400	---	---	---	---	---	23.3	9.2	27.4
31...	1351	28.0	3400	316	8.2	12.4	16.0	9.7	---	---	---
31...	1352	15.0	3400	315	8.3	12.6	---	9.8	---	---	---
31...	1353	3.0	3400	309	8.2	13.5	---	9.8	---	---	---
APR											
01...	1644	---	600	---	---	---	---	---	21.6	7.8	25.0
01...	1645	---	3400	---	---	---	---	---	17.1	8.4	21.0
01...	1646	2.0	3400	---	---	---	---	---	16.2	7.2	19.5
06...	1245	---	600	---	---	---	---	---	35.1	16.2	42.4
06...	1246	8.0	600	367	7.6	14.9	18.0	8.8	---	---	---
06...	1248	3.0	600	364	7.6	15.0	---	8.8	---	---	---
06...	1320	---	3400	---	---	---	---	---	54.1	26.5	66.2
06...	1321	25.0	3400	340	8.1	14.9	---	9.0	---	---	---
06...	1322	16.0	3400	339	8.2	14.8	---	8.9	---	---	---
06...	1323	3.0	3400	339	8.2	14.9	---	8.8	---	---	---

01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00003)	(00009)	(00095)	PH (UNITS)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLLA FLUORO- METRIC METHOD CORR, (UG/L)	(32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLOURO- METRIC METHOD UNCORR, (UG/L)	(32217)
APR 14...	2050	---	600	---	---	---	---	---	---	---	---	---	---	27.0	---	24.5	---	38.5	---
14...	2055	9.0	600	377	---	---	7.0	16.0	---	---	---	7.7	---	---	---	---	---	---	---
14...	2056	3.0	600	374	---	---	7.0	15.9	---	---	---	7.6	---	---	---	---	---	---	---
14...	2115	---	3400	---	---	---	---	---	---	---	---	---	---	59.0	---	33.7	---	74.5	---
14...	2116	29.0	3400	268	---	---	7.5	14.2	---	---	---	9.8	---	---	---	---	---	---	---
14...	2117	15.0	3400	268	---	---	7.5	14.2	---	---	---	9.9	---	---	---	---	---	---	---
14...	2118	2.0	3400	270	---	---	7.6	14.4	---	---	---	10.0	---	---	---	---	---	---	---
15...	0745	---	3400	---	---	---	---	---	---	---	---	---	---	26.5	---	25.8	---	38.6	---
15...	0747	32.0	3400	250	---	---	7.4	13.8	---	12.0	---	9.9	---	39.7	---	59.0	---	67.7	---
15...	0748	14.0	3400	247	---	---	7.4	13.9	---	---	---	9.9	---	24.8	---	24.9	---	36.6	---
15...	0749	2.0	3400	254	---	---	7.4	13.9	---	---	---	10.0	---	20.2	---	22.0	---	30.6	---
15...	0810	10.0	600	326	---	---	7.2	13.7	---	19.0	---	8.9	---	35.1	---	22.5	---	45.5	---
15...	0811	6.0	600	331	---	---	7.2	13.8	---	---	---	8.7	---	32.6	---	22.1	---	42.9	---
15...	0812	2.0	600	333	---	---	7.2	13.8	---	---	---	8.6	---	35.8	---	20.3	---	45.1	---
15...	0815	---	600	---	---	---	---	---	---	---	---	---	---	36.9	---	22.5	---	47.3	---
15...	1055	27.0	3400	195	---	---	7.4	12.6	---	6.0	---	---	---	---	---	---	---	---	---
15...	1056	15.0	3400	192	---	---	7.4	12.6	---	---	---	---	---	---	---	---	---	---	---
15...	1057	3.0	3400	197	---	---	7.4	12.7	---	---	---	---	---	---	---	---	---	---	---
15...	1210	---	3400	---	---	---	---	---	---	---	---	---	---	30.0	---	33.9	---	46.0	---
15...	1255	9.0	600	279	---	---	7.3	14.2	---	---	---	---	---	---	---	---	---	---	---
15...	1256	6.0	600	279	---	---	7.3	14.2	---	---	---	---	---	---	---	---	---	---	---
15...	1257	3.0	600	293	---	---	7.3	14.3	---	---	---	---	---	---	---	---	---	---	---
15...	1300	---	600	---	---	---	---	---	---	---	---	---	---	13.5	---	20.1	---	23.1	---
16...	1141	9.0	600	159	---	---	7.2	12.5	---	---	---	---	---	---	---	---	---	---	---
16...	1142	3.0	600	168	---	---	7.2	12.6	---	---	---	---	---	---	---	---	---	---	---
17...	1131	27.0	3400	142	---	---	6.7	12.3	---	---	---	9.9	---	---	---	---	---	---	---
17...	1132	15.0	3400	142	---	---	6.6	12.3	---	---	---	9.8	---	---	---	---	---	---	---
17...	1133	3.0	3400	145	---	---	6.7	12.4	---	---	---	9.8	---	---	---	---	---	---	---
17...	1201	9.0	600	207	---	---	6.5	12.5	---	---	---	9.2	---	---	---	---	---	---	---
17...	1202	6.0	600	213	---	---	6.6	13.0	---	---	---	9.0	---	---	---	---	---	---	---
17...	1203	3.0	600	246	---	---	6.6	12.9	---	---	---	8.9	---	---	---	---	---	---	---
21...	1235	28.0	3400	181	---	---	7.8	14.0	---	---	---	9.2	---	---	---	---	---	---	---
21...	1236	14.0	3400	182	---	---	7.8	14.2	---	---	---	9.3	---	---	---	---	---	---	---
21...	1237	3.0	3400	182	---	---	7.8	14.3	---	---	---	9.3	---	---	---	---	---	---	---
21...	1310	---	600	---	---	---	---	---	---	---	---	---	---	16.8	---	5.0	---	19.0	---
21...	1311	10.0	600	233	---	---	7.3	14.7	---	---	---	9.2	---	---	---	---	---	---	---
21...	1312	3.0	600	213	---	---	7.5	14.9	---	---	---	9.4	---	---	---	---	---	---	---
28...	1235	---	3400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
28...	1240	29.0	3400	239	---	---	8.3	15.8	---	24.0	---	10.2	---	43.0	---	18.8	---	51.5	---
														49.8		16.0		56.8	

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LCC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLLA FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLLA FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
APR 29...	1241	20.0	3400	237	8.4	15.9	---	10.3	51.4	17.3	59.1
29...	1242	10.0	3400	229	7.9	16.6	---	9.7	31.3	21.8	41.4
28...	1243	2.0	3400	246	7.7	18.1	---	9.4	28.0	26.2	40.3
28...	1320	---	600	---	---	---	---	---	72.5	12.5	77.5
28...	1325	11.0	600	299	7.9	17.0	36.0	10.4	71.4	14.5	77.4
29...	1326	6.0	600	295	8.0	17.3	---	10.6	71.3	15.9	78.0
29...	1327	2.0	600	291	8.3	17.8	---	11.3	72.4	11.2	76.8
MAY 04...	0810	---	3400	---	---	---	---	---	20.3	31.0	35.1
04...	0814	29.0	3400	250	7.4	16.2	18.0	7.0	---	---	---
04...	0816	15.0	3400	252	7.4	16.3	---	6.7	---	---	---
04...	0818	3.0	3400	252	7.3	16.3	---	6.6	---	---	---
04...	0825	---	600	---	---	---	---	---	26.3	23.1	37.2
04...	0826	12.0	600	254	7.4	16.0	17.0	7.3	---	---	---
04...	0827	3.0	600	263	7.5	16.1	---	7.4	---	---	---
12...	0910	11.0	600	375	7.0	18.2	36.0	5.8	17.2	16.6	25.0
12...	0911	3.0	600	380	7.0	18.1	---	5.7	16.0	15.9	23.5
12...	0936	27.0	3400	266	7.5	17.8	---	7.5	21.0	18.8	26.9
12...	0937	20.0	3400	268	7.4	17.9	---	7.4	22.0	23.8	33.2
12...	0938	10.0	3400	267	7.5	17.8	---	7.5	20.8	16.1	28.3
12...	0939	3.0	3400	258	7.5	17.7	---	7.5	21.1	15.6	28.4
19...	0800	31.0	3400	232	7.1	18.0	24.0	6.6	6.5	13.3	12.9
19...	0802	20.0	3400	235	7.1	18.1	---	6.6	7.5	12.6	13.5
19...	0804	10.0	3400	239	7.1	18.1	---	6.6	7.8	12.0	13.5
19...	0806	2.0	3400	242	7.1	18.2	---	6.6	7.2	21.2	17.4
19...	0835	13.0	600	256	7.1	17.9	24.0	6.7	10.1	12.1	15.9
19...	0836	6.0	600	259	7.1	18.0	---	6.6	10.2	11.3	15.5
19...	0837	2.0	600	274	7.1	18.0	---	6.5	12.9	9.4	17.3
26...	1040	28.0	3400	239	7.3	21.0	30.0	7.7	9.0	12.1	14.7
26...	1041	20.0	3400	241	7.5	21.1	---	7.7	8.6	14.8	15.7
26...	1042	10.0	3400	243	7.3	21.2	---	7.7	8.1	6.8	11.3
26...	1043	2.0	3400	262	7.3	22.3	---	7.3	4.5	5.6	7.2
26...	1120	10.0	600	287	7.0	22.2	---	7.8	16.9	11.4	22.2
26...	1121	2.0	600	299	7.1	22.3	---	8.5	27.4	8.2	31.0
JUN 01...	1835	11.0	600	255	7.6	23.6	24.0	7.5	---	---	---
01...	1836	2.0	600	241	7.7	23.7	---	7.5	31.2	18.0	39.5
01...	1845	30.0	3400	231	7.5	23.6	---	6.5	24.0	21.1	33.9
01...	1846	15.0	3400	230	7.6	23.6	---	6.6	---	---	---
01...	1847	2.0	3400	226	7.8	23.7	---	6.8	28.5	16.6	36.2
11...	1331	2.0	3400	---	---	---	---	---	6.1	3.4	7.7

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(000003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(000009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	(000095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	(00077)	OXYGEN, DIS- SOLMED (MG/L)	(00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
JUN	11.00	10.0		3400												6.2		4.9		8.5	
	1333	20.0		3400												3.8		3.9		5.6	
	1334	29.0		3400												5.3		7.4		8.8	
	1346	2.0		600												39.4		6.5		42.0	
	1347	10.0		600												14.2		9.4		18.5	
	1346	2.0		600												14.2		7.1		17.5	
	1347	7.0		600												13.7		9.0		17.9	
	1348	9.0		600												12.6		6.8		15.7	
	1411	2.0		3400												6.3		6.9		9.6	
	1412	7.0		3400												5.0		6.7		8.2	
	1413	12.0		3400												2.5		6.4		5.5	
	1414	21.0		3400												3.5		6.6		6.6	
	1415	29.0		3400												1.7		5.6		4.4	
	1240			600												18.1		6.4		20.9	
	1241	2.0		600												16.2		6.4		19.0	
	1242	6.0		600												17.5		5.9		20.1	
	1243	10.0		600												17.0		8.2		20.8	
	1300			3400												4.2		5.9		7.0	
	1301	2.0		3400												7.6		6.3		10.6	
	1302	10.0		3400												4.0		5.0		6.3	
	1303	20.0		3400												3.8		7.9		7.6	
	1304	26.0		3400												2.5		8.4		6.5	
	0930	31.0		3400		271		6.6		26.5		24.0	5.7		6.9		11.3		12.2		
	0931	23.0		3400		271		6.6		26.6			5.7		7.6		11.8		13.2		
	0932	15.0		3400		271		6.6		26.8			6.0		7.8		11.1		13.1		
	0934	7.0		3400		270		6.7		26.9			6.0		8.4		11.5		13.9		
	0935	2.0		3400		270		6.6		26.9			6.0		8.9		10.8		14.0		
	1005	11.0		600		323		6.6		26.6		24.0	7.5		25.2		8.2		28.8		
	1006	7.0		600		322		6.6		26.6			7.5		25.2		8.0		28.8		
	1007	2.0		600		316		6.6		26.6			7.5		22.9		7.4		26.2		
JUL	08.00			30000												46.0		4.5		47.5	
	2044			300												48.0		6.6		50.5	
	2045	11.0		300		350		7.4		28.1		24.0	9.3		50.4		4.8		52.0		
	2046	6.0		300		353		7.5		28.2			9.4		45.6		8.8		49.2		
	2047	1.0		300		353		7.5		28.2			9.4		44.4		6.5		46.9		
	2050	2.0		1000		353		7.3		28.0		24.0	9.1		36.4		6.4		38.9		
	2051			1000											23.6		11.2		28.7		
	2120			40000											22.1		9.8		26.5		
	2125	28.0		3100		329		7.3		26.6			7.3								

01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK 1IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA METRIC CORR. (JG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLOURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
08...	2126	20.0	3100	327	7.5	26.7	--	7.6	21.7	8.7	25.6
08...	2127	11.0	3100	326	7.5	26.8	--	7.8	21.9	9.3	26.1
08...	2128	6.0	3100	329	7.7	27.6	--	8.6	30.2	6.0	32.7
08...	2129	2.0	3100	330	7.8	27.9	--	8.9	29.7	5.5	31.9
08...	2130	--	3100	--	--	--	--	--	24.8	7.6	28.1
08...	2140	26.0	3800	326	7.6	26.9	--	7.9	--	--	--
08...	2141	19.0	3800	328	7.6	27.0	--	8.1	--	--	--
08...	2142	14.0	3800	328	7.8	27.4	--	8.5	--	--	--
08...	2143	2.0	3800	329	7.9	27.6	--	8.9	--	--	--
08...	2145	--	3800	--	--	--	--	--	25.5	8.00	29.0
10...	1810	15.0	3400	326	6.5	29.0	31.0	6.3	--	--	--
13...	1935	35.0	3400	325	6.1	29.7	--	5.0	--	--	--
13...	1936	28.0	3400	325	6.2	29.7	--	5.1	--	--	--
13...	1937	21.0	3400	325	6.2	29.7	--	5.3	--	--	--
13...	1938	14.0	3400	326	6.2	29.8	--	5.4	--	--	--
13...	1939	7.0	3400	324	6.1	29.8	--	5.6	--	--	--
13...	1940	2.0	3400	323	6.1	29.9	--	5.5	--	--	--
15...	1715	10.0	600	342	7.7	28.7	30.0	6.6	33.6	13.8	39.8
15...	1716	7.0	600	338	7.9	29.0	--	7.9	33.8	12.2	39.3
15...	1717	2.0	600	335	8.4	29.3	--	9.0	47.4	8.8	51.0
15...	1735	29.0	3400	323	7.5	29.1	25.0	5.3	19.6	19.1	28.6
15...	1736	19.0	3400	323	7.5	29.1	--	5.3	21.5	14.0	28.0
15...	1737	13.0	3400	325	7.5	29.2	--	5.3	19.1	12.4	24.8
15...	1738	6.0	3400	317	7.4	29.5	--	5.0	14.6	9.4	18.9
15...	1739	2.0	3400	315	7.4	29.7	--	5.1	11.1	8.3	14.9
20...	0716	7.0	1000	342	7.1	27.9	26.0	7.5	--	--	--
20...	0717	1.0	1000	344	7.7	28.3	--	7.7	--	--	--
20...	0718	--	1000	--	--	--	--	--	65.8	15.9	72.6
20...	0719	--	300	--	--	--	--	--	66.6	15.5	73.1
20...	0720	14.0	300	343	7.1	28.2	30.0	7.5	61.5	19.0	70.2
20...	0721	6.0	300	342	7.1	28.4	--	7.5	57.7	16.6	64.9
20...	0722	1.0	300	342	7.0	28.5	--	7.3	59.5	15.2	65.0
20...	0740	26.0	3100	316	6.7	28.6	30.0	4.9	33.3	23.2	44.0
20...	0741	20.0	3100	318	6.8	28.8	--	5.5	36.7	23.0	47.4
20...	0742	11.0	3100	320	6.9	28.9	--	5.8	40.1	22.1	50.3
20...	0743	6.0	3100	320	6.9	28.9	--	5.8	36.5	17.6	44.5
20...	0744	1.0	3100	318	6.8	28.7	--	5.8	39.3	17.5	47.2
20...	0745	--	3100	--	--	28.6	--	--	38.8	22.4	49.2
20...	0750	--	4000	--	--	--	--	--	38.6	21.8	48.6

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

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LCC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUL 20...	0800	32.0	3800	315	6.7	27.7	36.0	5.0	--	--	--
20...	0801	15.0	3800	313	6.6	28.1	--	4.3	--	--	--
20...	0802	1.0	3800	313	6.6	28.2	--	4.4	--	--	--
20...	0805	--	3800	--	--	--	--	--	--	--	--
20...	1800	11.0	300	328	7.6	30.1	22.0	9.0	29.5	18.9	37.2
20...	1802	6.0	300	317	7.6	30.2	--	9.0	74.0	14.6	80.0
20...	1804	1.0	300	314	7.6	30.2	--	9.0	77.6	10.8	81.7
20...	1805	--	300	--	--	--	--	--	81.6	6.3	83.4
20...	1815	2.0	1000	316	7.5	30.3	10.0	7.9	75.0	11.1	79.3
20...	1816	1.0	1000	316	7.5	30.3	--	8.0	--	--	--
20...	1817	--	1000	--	--	--	--	--	--	--	--
20...	1835	30.0	3100	317	7.5	29.6	22.0	7.6	68.4	23.3	78.8
20...	1836	20.0	3100	318	7.6	29.8	--	8.0	53.0	15.0	59.5
20...	1837	11.0	3100	316	7.6	29.8	--	8.2	67.7	12.0	72.6
20...	1838	6.0	3100	317	7.6	29.8	--	7.9	70.0	11.4	74.5
20...	1839	1.0	3100	317	7.5	29.8	--	7.5	69.4	9.8	73.1
20...	1840	--	3100	--	--	--	--	--	64.4	12.2	69.4
20...	1850	27.0	3800	317	7.3	29.0	12.0	6.8	64.4	12.1	69.8
20...	1851	15.0	3800	315	7.3	29.3	--	7.1	--	--	--
20...	1853	7.0	3800	317	7.1	29.4	--	6.7	--	--	--
20...	1855	1.0	3800	311	8.0	30.0	--	9.3	--	--	--
20...	1856	--	3800	--	--	--	--	--	54.7	15.6	61.4
20...	1900	--	40000	--	--	--	--	--	59.6	14.4	64.8
21...	0625	3.0	1000	322	6.9	27.9	30.0	5.6	--	--	--
21...	0626	1.0	1000	322	6.9	28.1	--	5.6	--	--	--
21...	0627	--	1000	--	--	--	--	--	--	--	--
21...	0630	--	30000	--	--	--	--	--	35.2	18.4	44.6
21...	0631	11.0	300	350	6.9	28.4	--	--	39.3	15.2	46.1
21...	0632	6.0	300	349	6.9	28.4	36.0	6.2	39.4	14.4	45.9
21...	0633	1.0	300	350	6.9	28.4	--	5.9	36.8	15.9	44.0
21...	0634	--	300	--	--	--	--	--	39.1	14.5	45.6
21...	0644	--	3100	--	--	--	--	--	47.3	16.9	54.8
21...	0645	29.0	3100	315	7.2	28.7	32.0	6.2	33.6	19.1	42.4
21...	0646	20.0	3100	317	7.2	28.8	--	6.1	34.8	19.0	43.6
21...	0647	11.0	3100	318	7.2	28.8	--	6.0	35.7	15.6	42.8
21...	0648	6.0	3100	321	7.2	28.9	--	6.0	32.6	17.1	40.4
21...	0649	1.0	3100	319	7.2	28.9	--	6.1	30.8	16.2	38.2
21...	0650	--	40000	--	--	--	--	--	31.3	16.0	38.6
21...	0656	29.0	3800	315	7.0	28.7	36.0	5.4	33.2	16.9	40.9

01652590 - POTOMAC R AT ALEXANDRIA, VA. ---Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LCC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA FLURO- METRIC METHOD CORR. (UG/L)	PHEOPY -TIN A FLURO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUL 21...	0657	15.0	3800	314	7.2	28.8	--	5.9	--	--	--
21...	0658	1.0	3800	314	7.2	28.9	--	6.1	--	--	--
21...	0659	--	3800	--	--	--	--	--	32.4	19.3	41.4
21...	1630	12.0	300	368	7.6	29.7	30.0	8.4	50.6	12.1	55.8
21...	1632	6.0	300	363	7.6	29.7	--	8.6	--	--	--
21...	1634	1.0	300	363	7.7	30.0	--	8.5	59.5	12.1	64.5
21...	1635	--	300	--	--	--	--	--	59.0	12.7	64.4
21...	1645	4.0	1000	355	7.7	30.4	28.0	8.1	--	--	--
21...	1647	1.0	1000	338	7.8	30.7	--	8.2	--	--	--
21...	1700	--	30000	--	--	--	--	--	54.0	11.9	59.0
21...	1705	30.0	3100	332	7.3	29.4	32.0	6.1	32.5	25.2	44.2
21...	1706	20.0	3100	331	7.3	29.3	--	6.3	35.3	24.0	46.4
21...	1707	11.0	3100	329	7.5	29.5	--	6.6	36.8	19.5	45.7
21...	1708	6.0	3100	326	7.5	29.5	--	6.9	45.5	13.9	51.6
21...	1709	1.0	3100	322	7.7	30.0	--	7.5	48.8	12.5	54.1
21...	1710	--	3100	--	--	--	--	--	37.2	19.6	46.2
21...	1715	29.0	3800	325	7.4	29.4	--	6.2	--	--	--
21...	1716	15.0	3800	322	7.5	29.5	--	6.7	--	--	--
21...	1717	1.0	3800	320	7.9	30.1	--	8.0	--	--	--
21...	1718	--	3800	--	--	--	--	--	46.0	13.7	52.0
21...	1720	--	40000	--	--	--	--	--	43.4	17.3	51.2
22...	0640	--	1000	--	--	--	--	--	36.3	14.1	42.6
22...	0642	2.0	1000	341	6.9	28.2	30.0	5.3	--	--	--
22...	0645	--	30000	--	--	--	--	--	35.4	17.0	43.2
22...	0654	11.0	300	350	6.9	28.0	30.0	6.1	38.5	15.9	45.7
22...	0655	6.0	300	350	7.0	28.1	--	6.3	39.0	14.4	45.4
22...	0656	1.0	300	348	7.0	28.1	--	5.9	37.8	15.5	44.8
22...	0657	--	300	--	--	--	--	--	33.8	18.7	42.4
22...	0704	29.0	3100	313	7.4	28.6	30.0	6.5	39.1	21.8	49.1
22...	0705	20.0	3100	314	7.4	28.6	--	6.4	34.3	21.4	44.2
22...	0706	11.0	3100	315	7.3	28.6	--	6.2	36.4	23.2	47.1
22...	0707	6.0	3100	315	7.3	28.6	--	6.2	30.8	22.6	41.4
22...	0708	1.0	3100	315	7.4	28.6	--	6.3	35.1	17.6	43.1
22...	0710	--	3100	--	--	--	--	--	35.5	18.2	43.8
22...	0720	--	40000	--	--	--	--	--	35.9	19.4	44.8
22...	0721	28.0	3800	314	7.4	28.7	30.0	6.4	--	--	--
22...	0722	15.0	3800	313	7.4	28.6	--	6.4	--	--	--
22...	0723	1.0	3800	313	7.4	28.6	--	6.2	--	--	--
22...	0725	--	3800	--	--	--	--	--	29.6	22.2	40.0

01652590 -- POTOMAC R AT ALEXANDRIA, VA. --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING SECTION (FT FM BANK)	SPE- CIFIC CON- DUCTI- ANCE (JMHOS)	PH	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLIA FLUORO- METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/LT (32213T	CHLORO- PHYLL A FLOURO- METHOB UNCORR. (UG/L) (32217)
JUL 28...	1201	8.0	600	371	7.5	27.5	23.0	7.0	53.4	14.2	59.5
28...	1202	1.6	600	356	7.6	27.7	--	7.2	56.6	9.7	60.5
28...	1205	--	600	--	--	--	--	--	54.9	12.9	60.4
28...	1225	--	3400	--	--	--	--	--	33.3	17.8	41.4
28...	1230	28.0	3400	336	7.5	27.7	25.0	5.5	31.6	16.0	38.8
28...	1231	20.0	3400	333	7.5	27.8	--	5.6	33.2	15.3	40.2
28...	1232	13.0	3400	330	7.6	28.0	--	5.9	34.4	14.2	40.8
28...	1233	7.0	3400	331	7.6	28.0	--	5.9	35.0	12.8	39.7
28...	1234	1.6	3400	331	7.6	28.0	--	5.9	35.0	12.3	40.4
31...	1200	1.0	3400	--	--	--	--	--	96.9	9.1	99.9
31...	1201	6.0	3400	--	--	--	--	--	79.4	13.3	84.7
31...	1202	15.0	3400	--	--	--	--	--	69.6	15.7	76.2
31...	1203	27.0	3400	--	--	--	--	--	69.0	18.6	77.0
AUG 06...	1239	--	3100	--	--	--	--	--	77.8	19.7	86.2
06...	1240	30.0	3100	352	7.6	27.2	15.0	7.0	90.0	22.0	99.4
06...	1241	22.0	3100	354	7.5	27.4	--	6.9	80.4	21.0	89.4
06...	1242	15.0	3100	355	7.5	27.5	--	6.7	78.8	20.7	87.6
06...	1243	7.0	3100	358	7.6	27.5	--	6.6	78.0	24.0	88.5
06...	1244	1.0	3100	358	7.6	27.5	--	6.6	75.5	23.2	85.6
06...	1245	--	40000	--	--	--	--	--	78.3	16.8	85.3
06...	1252	30.0	3800	364	7.5	27.5	15.0	6.9	--	--	--
06...	1253	15.0	3800	354	7.5	27.5	--	6.8	--	--	--
06...	1254	1.0	3800	356	7.6	27.6	--	7.0	--	--	--
06...	1255	--	3800	--	--	--	--	--	--	--	--
06...	1305	11.0	300	386	7.8	27.4	--	--	67.0	27.7	79.4
06...	1306	6.0	300	384	7.8	27.5	--	7.7	73.2	30.5	86.9
06...	1307	1.0	300	381	7.8	27.5	--	7.9	84.4	31.5	98.4
06...	1308	--	300	--	--	--	--	7.8	72.7	21.8	82.3
06...	1315	--	30000	--	--	--	--	--	83.8	22.8	93.6
06...	1316	2.0	1000	382	7.8	27.2	--	--	79.3	28.9	92.1
06...	1317	--	1000	--	--	--	--	--	--	--	--
06...	1500	--	600	--	--	--	--	--	84.1	22.8	93.9
18...	1505	7.0	600	399	8.1	26.8	24.0	--	75.5	9.7	79.1
18...	1506	1.5	600	401	8.0	26.8	--	9.4	73.8	14.6	79.8
18...	1515	--	40000	--	--	--	--	9.2	72.7	12.9	77.9
18...	1520	26.0	3100	379	7.4	26.5	24.0	--	48.5	18.7	56.9
18...	1521	20.0	3100	379	7.4	26.4	--	6.1	46.8	35.1	63.2
18...	1522	13.0	3100	379	7.4	26.5	--	6.0	46.5	23.0	57.0
18...	1524	6.0	3100	378	7.5	26.7	--	6.2	47.9	22.9	58.3
18...	1524	6.0	3100	378	7.5	26.7	--	6.8	51.6	18.8	60.0

APPENDIX A-2

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LCC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL'A METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG 18...	1525	1.6	3100	375	7.7	27.1	--	7.9	60.6	15.7	67.3
18...	1526	--	3100	--	--	--	--	--	51.9	19.6	60.6
18...	1535	26.0	3800	370	7.4	26.6	24.0	5.8	--	--	--
18...	1536	13.0	3800	367	7.4	26.4	--	6.1	--	--	--
18...	1537	1.6	3800	368	7.4	26.5	--	6.2	--	--	--
18...	1540	--	3800	--	--	--	19.0	--	44.6	18.6	53.0
24...	1720	12.0	300	427	7.9	24.9	--	9.8	76.4	14.2	82.2
24...	1721	4.0	300	428	8.0	24.9	--	10.1	81.4	11.3	85.7
24...	1722	1.0	300	427	8.0	24.9	--	10.2	86.8	12.5	91.6
24...	1723	--	300	--	--	--	--	--	83.2	7.5	85.6
24...	1730	12.0	1000	431	7.5	24.6	--	8.4	--	--	--
24...	1731	4.0	1000	432	7.6	24.6	--	8.7	--	--	--
24...	1732	1.0	1000	431	7.6	24.6	--	8.7	--	--	--
24...	1733	--	1000	--	--	--	--	--	69.3	14.9	75.5
24...	1745	--	30000	--	--	--	--	--	79.1	8.0	81.8
24...	1750	29.0	3100	405	7.2	24.4	23.0	6.9	56.1	16.6	63.3
24...	1751	10.0	3100	406	7.3	24.5	--	7.6	60.0	12.8	65.4
24...	1752	4.0	3100	405	7.4	24.5	--	7.8	69.7	17.0	76.9
24...	1753	1.0	3100	407	7.6	24.7	--	8.7	70.0	10.3	74.0
24...	1754	--	3100	--	--	--	--	--	62.4	16.6	69.5
24...	1755	--	40000	--	--	--	--	--	64.7	12.6	69.8
24...	1800	25.0	3800	410	7.2	24.5	--	6.8	--	--	--
24...	1801	10.0	3800	408	7.4	24.6	--	7.9	--	--	--
24...	1802	5.0	3800	407	7.5	24.6	--	8.3	--	--	--
24...	1803	1.0	3800	407	7.7	24.7	--	8.4	--	--	--
24...	1805	--	3800	--	--	--	18.0	--	69.3	14.9	75.5
25...	0707	14.0	300	475	6.5	24.0	--	8.2	58.7	13.6	64.4
25...	0708	10.0	300	480	6.4	24.1	--	8.1	--	--	--
25...	0709	4.0	300	463	6.4	24.1	--	8.3	55.5	11.4	60.2
25...	0710	1.0	300	469	6.4	24.1	--	8.3	52.9	20.7	62.1
25...	0711	--	300	--	--	--	--	--	54.2	17.1	61.7
25...	0717	4.0	1000	435	6.6	24.0	19.0	8.5	--	--	--
25...	0718	1.0	1000	436	6.6	24.0	--	8.6	67.8	14.7	73.9
25...	0719	--	1000	--	--	--	16.0	--	53.6	21.6	63.3
25...	0740	30.0	3100	421	6.4	24.1	--	7.3	--	--	--
25...	0741	20.0	3100	421	6.4	24.1	--	7.3	51.3	21.2	60.9
25...	0742	10.0	3100	418	6.4	24.0	--	7.3	55.2	17.7	63.0
25...	0743	4.0	3100	416	6.4	24.0	--	7.3	52.0	17.0	59.5
25...	0744	1.0	3100	414	6.4	24.0	--	7.3	--	--	--

01652590 POTOMAC R AT ALEXANDRIA, VA. --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00003)	(00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECHI DISK) (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLLIA FLUORO- METRIC CORR. (UG/L)	(32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLURO- METRIC UNCORR. (UG/L)	(32217)
25 AUG	0745	--	3100	--	--	--	--	--	--	--	--	--	--	--	49.0	--	16.4	--	56.2	--	
25	0748	25.0	3800	413	24.2	18.0	6.4	6.9	24.2	6.9	6.9	6.9	6.9	6.9	53.8	--	19.7	--	62.6	--	
25	0749	12.0	3800	413	24.2	--	6.4	--	24.2	--	--	--	--	--	45.5	--	17.9	--	53.6	--	
25	0750	--	4000	--	--	--	6.4	--	--	--	--	--	--	--	82.9	--	9.8	--	86.5	--	
25	0751	1.0	3800	413	24.2	--	6.4	--	24.2	--	--	--	--	--	69.0	--	14.4	--	75.0	--	
25	0752	--	3800	--	--	--	6.4	--	--	--	--	--	--	--	76.6	--	16.1	--	83.3	--	
25	1755	--	3000	--	--	--	6.7	--	--	--	--	--	--	--	91.0	--	14.4	--	96.7	--	
25	1756	14.0	300	427	24.8	22.0	6.9	8.4	24.8	8.4	8.4	8.4	8.4	8.4	78.0	--	15.7	--	84.5	--	
25	1757	4.0	300	423	24.8	--	6.9	--	24.8	--	--	--	--	--	10.4	--	17.3	--	101	--	
25	1758	1.0	300	422	24.8	--	7.0	--	24.8	--	--	--	--	--	93.8	--	15.9	--	70.6	--	
25	1759	--	300	--	--	--	7.0	--	24.8	--	--	--	--	--	63.9	--	12.4	--	74.5	--	
25	1800	4.0	1000	424	25.0	23.0	7.3	10.4	25.0	10.4	10.4	10.4	10.4	10.4	69.5	--	14.8	--	72.9	--	
25	1802	1.0	1000	424	25.0	--	7.4	10.5	25.0	10.5	10.5	10.5	10.5	10.5	70.0	--	15.9	--	74.0	--	
25	1803	--	1000	--	--	--	7.4	--	--	--	--	--	--	--	61.8	--	17.3	--	68.6	--	
25	1815	23.0	3100	398	24.5	20.0	6.6	7.6	24.5	7.6	7.6	7.6	7.6	7.6	63.0	--	16.0	--	73.2	--	
25	1816	10.0	3100	404	24.7	--	6.8	--	24.7	--	--	--	--	--	53.7	--	21.5	--	63.4	--	
25	1817	4.0	3100	408	24.9	--	7.0	--	24.9	--	--	--	--	--	51.8	--	19.9	--	60.8	--	
25	1818	1.0	3100	411	25.0	--	7.0	--	25.0	--	--	--	--	--	60.0	--	16.8	--	67.3	--	
25	1819	--	3100	--	--	--	7.0	--	--	--	--	--	--	--	52.2	--	20.7	--	61.6	--	
25	1820	--	4000	--	--	--	7.0	--	--	--	--	--	--	--	50.8	--	17.0	--	58.3	--	
25	1825	24.0	3800	405	24.8	--	6.7	8.3	24.8	8.3	8.3	8.3	8.3	8.3	66.4	--	16.0	--	73.2	--	
25	1826	10.0	3800	404	24.9	--	7.0	9.0	24.9	9.0	9.0	9.0	9.0	9.0	53.7	--	21.5	--	63.4	--	
25	1827	1.0	3800	408	25.0	--	7.0	8.9	25.0	8.9	8.9	8.9	8.9	8.9	51.8	--	19.9	--	60.8	--	
25	1830	--	3800	--	--	--	7.0	--	--	--	--	--	--	--	60.0	--	16.8	--	67.3	--	
26	0705	13.0	300	434	24.1	18.0	6.4	7.4	24.1	7.4	7.4	7.4	7.4	7.4	66.4	--	16.0	--	73.2	--	
26	0706	4.0	300	434	24.2	--	6.4	--	24.2	--	--	--	--	--	53.7	--	21.5	--	63.4	--	
26	0707	1.0	300	435	24.2	--	6.4	--	24.2	--	--	--	--	--	51.8	--	19.9	--	60.8	--	
26	0708	--	300	--	--	--	6.4	--	--	--	--	--	--	--	60.0	--	16.8	--	67.3	--	
26	0711	--	1000	--	--	--	6.4	--	--	--	--	--	--	--	52.2	--	20.7	--	61.6	--	
26	0712	5.0	1000	429	24.2	18.0	6.4	7.0	24.2	7.0	7.0	7.0	7.0	7.0	50.8	--	17.0	--	58.3	--	
26	0714	1.0	1000	428	24.3	--	6.4	7.0	24.3	7.0	7.0	7.0	7.0	7.0	51.5	--	22.1	--	61.5	--	
26	0715	--	3000	--	--	--	6.4	--	--	--	--	--	--	--	60.5	--	20.6	--	69.6	--	
26	0728	32.0	3100	413	24.1	18.0	6.3	7.2	24.1	7.2	7.2	7.2	7.2	7.2	55.7	--	21.0	--	65.1	--	
26	0729	20.0	3100	414	24.1	--	6.3	--	24.1	--	--	--	--	--	54.5	--	19.1	--	63.0	--	
26	0730	10.0	3100	405	24.1	--	6.3	7.1	24.1	7.1	7.1	7.1	7.1	7.1	51.3	--	21.2	--	60.9	--	
26	0731	4.0	3100	402	24.2	--	6.3	7.1	24.2	7.1	7.1	7.1	7.1	7.1	51.0	--	21.1	--	60.5	--	
26	0732	1.0	3100	402	24.2	--	6.3	--	24.2	--	--	--	--	--	51.0	--	21.1	--	60.5	--	
26	0733	--	3100	--	--	--	6.3	7.0	--	--	--	--	--	--	51.0	--	21.1	--	60.5	--	
26	0738	32.0	3800	408	24.2	18.0	6.3	7.0	24.2	7.0	7.0	7.0	7.0	7.0	51.0	--	21.1	--	60.5	--	

01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY- TIN A FLURO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)	(32217)
AUG	0739	16.0		3800		406		6.3		24.2				7.0							
26....	0740	1.0		3800		405		6.3		24.1				7.2		54.2		16.8		61.6	
26....	0741			3800												54.5		20.2		63.5	
26....	0745			40000																	
26....	1710	10.0		300		424		7.5		24.9		19.0		8.3		65.6		11.6		70.3	
26....	1711	4.0		300		423		7.6		24.9				8.7		62.7		17.9		70.4	
26....	1712	1.0		300		424		7.6		24.9				8.9		69.0		15.5		75.5	
26....	1713			300												62.6		16.8		69.8	
26....	1717	4.0		1000		411		7.8		24.9				9.1							
26....	1718	1.0		1000		412		7.8		24.9				9.1							
26....	1719			1000																	
26....	1720			30000												68.6		10.9		72.9	
26....	1730	24.0		3100		402		7.5		24.7						64.0		17.4		71.5	
26....	1731	10.0		3100		409		7.8		24.9		17.0		8.3		62.0		18.3		70.0	
26....	1732	4.0		3100		402		7.7		24.8				9.2		66.0		14.3		72.0	
26....	1733	1.0		3100		410		7.9		25.0				8.8		68.6		16.4		75.5	
26....	1735			3100										9.3		75.9		11.9		80.6	
26....	1740			40000												61.4		14.9		67.7	
26....	1741	25.0		3800		412		7.3		24.5				7.2		64.7		14.5		70.8	
26....	1742	13.0		3800		408		7.4		24.7				8.1							
26....	1743	1.0		3800		405		8.2		25.1				10.7							
26....	1745			3800												65.4		15.8		72.0	
SEP	1305	10.0		600		463		6.5		26.1				5.8							
01....	1307	2.0		600		465		6.5		26.7		30.0		6.1							
01....	1322	30.0		3400		443				25.9				4.4		36.8		21.5		46.7	
01....	1323	20.0		3400		436		6.2		25.9		18.0		4.3		34.8		19.4		43.7	
01....	1324	13.0		3400												37.5		16.6		45.0	
01....	1326	7.0		3400												42.7		15.2		49.4	
01....	1327	4.0		3400		434		6.2		26.3				4.8		44.3		16.1		51.5	
01....	1328	1.0		3400		432		6.4		26.8				5.3		53.9		13.2		59.5	
01....	1355	14.0		600		478		6.3		26.4				5.7		39.6		16.2		46.9	
01....	1356	7.0		600		478		6.3		26.6				6.4		43.6		14.1		49.8	
01....	1357	4.0		600		471		6.3		26.7				6.7		48.4		14.6		54.8	
01....	1358	1.0		600		456		6.4		26.7				6.9		47.4		15.5		54.2	
10....	0730	30.0		3400		406		6.9		23.6		24.0		4.9		24.4		14.5		31.0	
10....	0731	23.0		3400		407		6.9		23.7				4.8		21.5		16.4		29.2	
10....	0733	13.0		3400		407		6.9		23.8				4.8		22.6		15.2		29.7	
10....	0735	6.0		3400		407		6.9		23.8				4.9		22.9		14.7		29.7	
10....	0737	1.0		3400		406		6.9		23.7				4.9		23.7		11.7		29.0	

01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LINGS DEPTH (FT)	(000003)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	(000009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
SEP 10...	0800	10.0		600		479		6.9		23.5		24.0		5.3		26.1		16.3		33.6	
10...	0802	6.0		600		473		6.8		23.6		--		5.3		28.2		16.0		35.6	
10...	0804	1.6		600		474		6.9		23.6		--		5.4		28.9		14.2		35.3	
16...	1235	14.0		600		520		6.4		24.4		--		5.9		29.8		17.7		38.0	
16...	1236	6.0		600		520		6.4		24.5		--		6.0		31.8		15.5		38.9	
16...	1237	1.0		600		521		6.4		24.5		--		6.0		32.1		15.3		39.0	
16...	1303	30.0		3400		508		6.5		24.6		22.0		5.8		25.0		20.4		34.5	
16...	1305	21.0		3400		508		6.5		24.7		--		5.8		25.2		15.2		32.2	
16...	1307	14.0		3400		508		6.5		24.7		--		5.9		25.5		13.6		31.8	
16...	1309	7.0		3400		508		6.5		24.8		--		6.0		25.9		12.5		31.6	
16...	1310	1.0		3400		507		6.5		24.7		--		6.0		25.6		15.2		32.7	
22...	0955	10.0		600		486		7.3		21.5		25.0		6.5		20.4		11.8		25.9	
22...	0956	5.0		600		485		7.3		21.5		--		6.5		20.4		12.2		26.1	
22...	0957	1.6		600		498		7.4		21.7		--		7.1		26.5		10.5		31.3	
22...	1016	26.0		3400		436		7.4		21.8		26.0		6.2		12.5		12.7		18.5	
22...	1017	20.0		3400		436		7.4		21.8		--		6.2		13.5		8.4		17.4	
22...	1018	13.0		3400		436		7.4		21.9		--		6.2		12.2		10.6		17.1	
22...	1019	6.0		3400		437		7.4		21.9		--		6.2		14.3		7.4		17.7	
22...	1020	1.5		3400		436		7.4		22.1		--		6.4		13.8		7.7		17.4	

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WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	(000003)	SAMP- SECTION (FT FM L BANK)	(000009)	SPE- CIFIC CON- DUCT- ANCE	(000095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPY FLURO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)	(32217)	
OCT	02...	25.0		625		389		6.7		22.7		24.0		4.8		8.4		6.0		11.1		
	1432	13.0		625		388		6.7		22.7				4.9		8.3		6.1		11.1		
	1434	6.0		625		388		6.7		22.7				5.0		8.4		5.3		10.8		
	1436	1.0		625		387		6.7		22.8				5.2		11.0		5.9		13.6		
	1445			5000												8.2		5.5		10.8		
	1455	12.0		3600		403		6.6		22.6		25.0		4.7								
	1457	1.0		3600		403		6.7		22.7				4.9		9.2		5.1		10.5		
	1458			3600																		
	1540	6.0		1600		401		6.7		22.8		25.0		4.7								
	1542	1.0		1600		401		6.7		22.7				4.9								
	1544			1600																		
	1130	25.0		625		434		6.4		20.8		28.0		5.4		7.0		5.9		9.8		
	1132	17.0		625		434		6.5		21.1				5.1		6.4		6.6		9.5		
	1133	13.0		625												6.7		6.4		9.7		
	1135	6.0		625												7.2		5.8		9.9		
	1137	1.0		625												7.0		5.5		9.5		
	0940	29.0		625		467		6.9		17.4		26.0		7.4		14.4		7.3		17.8		
	0942	13.0		625		472		6.8		17.4				7.2		15.3		8.3		19.1		
	0944	6.0		625		480		6.8		17.5				7.3		16.3		7.5		19.7		
	0946	1.0		625		482		6.8		17.5				7.3		15.8		7.9		20.4		
	0950			625												17.3		8.8		21.3		
NOV	1410	28.0		625		516		7.7		9.4		28.0		9.7		9.3		6.1		12.2		
	1412	13.0		625		516		7.7		9.3				9.6		8.8		5.5		11.4		
	1414	2.0		625		516		7.7		9.3				9.7		9.0		6.4		12.0		
	1420			625												9.2		6.7		12.3		
DEC	1405			625												2.9		6.3		5.9		
	1410	26.0		625		347		7.7		5.7		24.0		10.9		2.9		7.1		6.3		
	1412	20.0		625		346		7.7		5.6				10.9		3.1		6.4		6.2		
	1413	13.0		625		347		7.7		5.6				11.0		2.8		6.6		6.0		
	1415	6.0		625		346		7.7		5.6				11.0		2.8		5.4		5.4		
	1417	1.0		625		347		7.7		5.6				11.0		2.8		5.5		5.4		
	1420	5.0		1600		348		7.7		5.9		30.0		10.9								
	1422	1.0		1600		348		7.7		5.9				10.9								
	1424			1600												2.0		5.0		4.4		
	1425			5000											2.4		5.3		4.9			
	1427	6.0		3600		348		7.7		5.8				10.8								
	1428	1.0		3600		348		7.7		5.8		25.0		10.9								
	1430			3600											2.3		4.5		4.5		4.5	
FEB	03...	3.0		625		528		8.1		3.2				11.9		4.2		1.4		4.8		

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 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
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DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCTI- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN))	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
FER											
04...	1020	--	625	--	--	--	--	--	4.7	1.5	5.3
04...	1022	26.0	625	532	8.0	2.1	42.0	13.1	4.9	1.8	5.7
04...	1024	15.0	625	531	8.0	2.0	--	12.6	4.4	1.6	5.0
04...	1026	7.0	625	531	8.0	2.0	--	12.5	4.0	1.7	4.8
MAR											
04...	0925	--	625	--	--	--	--	--	3.5	3.2	5.0
04...	0926	28.0	625	209	7.7	6.9	24.0	11.6	3.9	4.2	5.9
04...	0927	13.0	625	212	7.7	7.0	--	11.6	3.4	3.1	4.8
04...	0928	2.0	625	212	7.7	7.0	--	11.6	3.2	3.1	4.6
18...	0730	3.0	625	392	7.7	5.9	--	10.1	7.3	5.8	10.0
APR											
15...	0820	29.0	625	251	7.4	13.8	--	9.8	84.3	131	147
15...	0821	23.0	625	236	7.4	13.8	--	10.0	34.8	59.8	63.4
15...	0822	13.0	625	236	7.4	13.8	--	10.0	35.2	45.8	56.9
15...	0824	2.0	625	238	7.4	13.8	--	10.0	25.4	28.7	38.9
MAY											
19...	0852	29.0	625	251	7.0	18.3	22.0	5.9	5.7	16.5	13.6
19...	0854	20.0	625	251	7.0	18.4	--	5.8	5.4	13.2	11.7
19...	0856	10.0	625	251	7.0	18.4	--	5.8	5.3	12.4	11.3
19...	0858	2.0	625	251	7.0	18.4	--	5.8	4.1	15.6	11.7
JUN											
30...	1046	29.0	625	275	6.4	26.6	26.0	5.7	11.7	21.3	21.9
30...	1048	23.0	625	275	6.4	26.6	--	5.7	9.5	16.9	17.6
30...	1050	15.0	625	275	6.5	26.6	--	5.9	9.2	7.8	12.9
30...	1052	7.0	625	275	6.5	26.7	--	6.0	11.7	8.6	15.7
30...	1054	2.0	625	272	6.5	27.1	--	5.8	9.2	5.8	10.9
JUL											
08...	1950	28.0	625	319	7.3	27.1	24.0	7.7	22.5	9.5	26.8
08...	1952	20.0	625	319	7.4	27.1	--	7.8	23.9	8.9	27.9
08...	1954	13.0	625	321	7.4	27.4	--	8.1	31.1	8.1	34.6
08...	1956	6.0	625	321	7.3	27.6	--	8.4	39.6	6.1	42.0
08...	1958	2.0	625	322	7.6	28.1	--	9.7	66.9	4.6	68.1
08...	1959	--	625	--	--	--	--	--	30.0	7.5	33.2
08...	2000	--	50000	--	--	--	--	--	23.7	7.8	27.2
08...	2005	5.0	1600	316	7.1	27.2	24.0	6.9	--	--	--
08...	2006	2.0	1600	317	7.2	27.3	--	7.4	--	--	--
08...	2008	--	1600	--	--	--	--	--	12.5	7.0	15.7
08...	2015	8.0	3600	304	7.0	28.0	34.0	6.9	--	--	--
08...	2016	2.0	3600	295	7.0	28.2	--	6.8	--	--	--
08...	2018	--	3600	--	--	--	--	--	10.7	5.3	13.2
15...	1700	3.0	625	322	7.4	29.0	--	5.6	18.4	7.8	21.9
20...	0614	--	1600	--	--	--	--	--	40.1	18.5	48.5
20...	0615	7.0	1600	319	6.8	28.7	30.0	6.0	--	--	--
20...	0617	4.0	1600	319	6.8	28.8	--	6.0	--	--	--

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WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LCC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLURO- METRIC CORR. (UG/L) (32209)	PHEOPHY -TIN A FLURO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)
JUL 20...	0619	2.0	1600	319	6.8	28.8	--	6.0	--	--	--
20...	0630	29.0	625	318	6.7	28.5	36.0	5.6	42.4	17.1	50.1
20...	0632	23.0	625	318	6.7	28.5	--	5.7	42.5	16.7	50.0
20...	0634	13.0	625	319	6.8	28.7	--	5.9	42.4	13.1	48.1
20...	0636	6.0	625	319	6.8	28.8	--	6.0	39.2	12.3	44.6
20...	0638	1.0	625	319	6.8	28.8	--	6.0	40.3	15.3	47.1
20...	0639	--	625	--	--	--	--	--	42.1	14.2	48.4
20...	0640	--	50000	--	--	--	--	--	37.4	14.3	43.8
20...	0710	9.0	3600	311	6.5	28.2	30.0	4.9	--	--	--
20...	0712	5.0	3600	311	6.5	28.1	--	5.0	--	--	--
20...	0714	2.0	3600	311	6.6	28.2	--	4.8	--	--	--
20...	0720	--	3600	--	--	--	--	--	26.1	12.2	31.7
20...	1628	--	625	--	--	--	--	--	39.1	21.3	47.9
20...	1629	31.0	625	--	--	--	--	--	21.5	22.3	32.0
20...	1630	28.0	625	321	6.8	29.3	40.0	5.4	--	--	--
20...	1632	23.0	625	321	6.9	29.2	--	5.5	27.9	24.3	39.3
20...	1634	13.0	625	321	6.9	29.4	--	6.0	23.5	18.5	41.0
20...	1636	6.0	625	321	7.0	29.6	--	6.9	49.0	10.7	53.5
20...	1638	2.0	625	320	7.2	29.9	--	7.2	49.8	13.5	55.6
20...	1700	6.0	1600	318	7.0	29.4	31.0	6.2	--	--	--
20...	1702	3.0	1600	318	7.0	29.3	--	6.1	--	--	--
20...	1704	1.0	1600	318	7.0	29.3	--	6.1	--	--	--
20...	1705	--	1600	--	--	--	--	--	31.9	14.9	38.7
20...	1715	10.0	3600	310	7.1	29.7	30.0	8.1	--	--	--
20...	1716	6.0	3600	311	7.1	29.8	--	8.2	--	--	--
20...	1718	2.0	3600	310	7.1	29.9	--	8.0	--	--	--
20...	1720	--	3600	--	--	--	--	--	62.8	8.6	66.1
20...	1730	--	50000	--	--	--	--	--	46.6	16.8	54.1
21...	0550	11.0	3600	314	6.7	28.4	30.0	4.8	--	--	--
21...	0551	5.0	3600	314	6.6	28.5	--	4.5	--	--	--
21...	0552	1.0	3600	314	6.6	28.5	--	4.6	--	--	--
21...	0555	--	3600	--	--	--	--	--	25.0	12.6	30.8
21...	0600	--	50000	--	--	--	--	--	33.1	12.5	38.7
21...	0601	--	1600	--	--	--	--	--	31.9	15.7	39.0
21...	0602	6.0	1600	324	6.7	28.8	36.0	4.9	--	--	--
21...	0603	1.0	1600	324	6.7	28.9	--	4.9	--	--	--
21...	0605	28.0	625	322	6.8	28.9	42.0	5.7	38.3	16.6	45.8
21...	0606	23.0	625	322	6.8	28.9	--	5.7	39.9	16.6	47.4
21...	0608	13.0	625	322	6.8	28.9	--	5.4	37.2	14.9	43.9

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 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
 --Cont.

DATE	TIME	SAMP- DEPTH (FT)	LINS (00003)	SAMPLE LCC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCI DISK (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPY FLUORO METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
JUL 21...	0609	6.0		625		322		6.8		28.9				5.4		37.3		14.5		43.8	
JUL 21...	0611	1.0		625		321		6.9		28.9				5.4		33.7		15.3		40.6	
JUL 21...	0615			625												37.3		14.4		43.7	
JUL 21...	1535			3600												52.2		9.5		56.1	
JUL 21...	1540	12.0		3600		316		7.2		29.6		23.0		6.9							
JUL 21...	1542	7.0		3600		315		7.3		29.8				7.7							
JUL 21...	1544	1.0		3600		316		7.3		30.0				7.6							
JUL 21...	1550	6.0		1600		323		7.0		29.3		28.0		5.4							
JUL 21...	1552	4.0		1600		323		7.0		29.2				5.3							
JUL 21...	1554	1.0		1600		323		7.0		29.2				5.3							
JUL 21...	1555			1600																	
JUL 21...	1610			50000																	
JUL 21...	1611	31.0		625																	
JUL 21...	1612	25.0		625		323		7.1		29.2		29.0		5.6							
JUL 21...	1614	23.0		625		324		7.1		29.3				5.6							
JUL 21...	1616	13.0		625		323		7.2		29.5				6.1							
JUL 21...	1618	10.0		625		324		7.3		29.7				6.5							
JUL 21...	1620	6.0		625		322		7.7		29.9				8.4							
JUL 21...	1622	1.0		625		323		7.8		30.0				8.4							
JUL 21...	1625			625																	
JUL 22...	0600	9.0		3600		322		6.7		28.2		36.0		4.6							
JUL 22...	0602	6.0		3600		323		6.7		28.4				4.4							
JUL 22...	0603	3.0		3600		322		6.6		28.5				4.2							
JUL 22...	0605			3600																	
JUL 22...	0615			50000																	
JUL 22...	0616			1600																	
JUL 22...	0617	5.0		1600		324		6.9		29.0				5.2							
JUL 22...	0619	1.0		1600		324		6.9		29.1		30.0		5.2							
JUL 22...	0620	26.0		625		327		7.0		28.8				6.2							
JUL 22...	0622	23.0		625		326		7.0		28.8				6.1							
JUL 22...	0624	13.0		625		326		6.9		28.8				5.9							
JUL 22...	0626	6.0		625		326		6.9		28.8				5.6							
JUL 22...	0628	1.0		625		326		6.9		28.4				4.7							
JUL 22...	0630			625																	
JUL 28...	1145			625																	
AUG 06...				625																	
AUG 06...	1330			625																	
AUG 06...	1335	30.0		625		349		7.6		27.4		18.0		7.0							
AUG 06...	1337	22.0		625		349		7.5		27.5				6.8							
AUG 06...	1339	15.0		625		349		7.5		27.5				7.0							

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--Cont.

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLI A FLUORO- METRIC CORR. (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG 06...	1341	7.0	625	349	7.6	27.5	--	7.1	70.7	16.0	77.5
06...	1343	1.0	625	349	7.6	27.5	--	7.2	74.2	16.9	81.4
06...	1345	--	50000	--	--	--	--	--	84.0	16.0	90.5
06...	1350	10.0	1600	363	7.6	27.5	15.0	7.1	--	--	--
06...	1352	1.0	1600	363	7.6	27.5	--	7.3	--	--	--
06...	1355	--	1600	--	--	--	--	--	84.7	17.3	91.9
06...	1400	10.0	3600	351	7.5	27.4	18.0	7.0	--	--	--
06...	1401	1.0	3600	355	7.7	27.5	--	7.5	--	--	--
06...	1405	--	3600	--	--	--	--	--	--	--	--
18...	1415	--	50000	--	--	--	--	--	87.8	15.2	93.9
18...	1420	--	625	--	--	--	--	--	68.6	20.7	77.6
18...	1425	27.0	625	379	7.6	26.5	22.0	--	70.7	20.3	79.6
18...	1426	20.0	625	378	7.6	26.5	--	7.1	61.9	25.8	73.5
18...	1428	13.0	625	376	7.6	26.5	--	7.0	67.0	17.5	74.5
18...	1430	6.0	625	378	7.9	26.7	--	7.2	66.2	18.0	74.0
18...	1432	1.6	625	379	8.3	27.0	--	8.2	75.0	15.9	81.6
18...	1435	1.6	1600	379	7.8	26.8	24.0	9.8	81.6	14.0	87.2
18...	1440	--	1600	--	--	--	--	8.1	--	--	--
18...	1625	--	625	--	--	--	--	--	70.0	14.7	76.0
24...	1630	24.0	625	385	7.2	24.4	16.0	--	57.0	16.1	64.0
24...	1632	10.0	625	388	7.4	24.5	--	7.0	48.0	13.8	54.0
24...	1634	4.0	625	397	7.7	24.7	--	7.6	46.9	14.4	53.2
24...	1635	1.0	625	397	8.3	25.4	--	8.5	56.1	14.6	62.4
24...	1650	10.0	1600	390	7.2	24.3	28.0	10.9	79.0	11.6	83.5
24...	1652	5.0	1600	391	7.6	24.6	--	7.0	--	--	--
24...	1654	1.0	1600	395	8.0	25.1	--	8.1	--	--	--
24...	1655	--	1600	--	--	--	--	9.8	71.2	7.9	74.1
24...	1700	--	50000	--	--	--	--	--	63.7	--	--
24...	1705	20.0	3600	400	7.6	24.5	20.0	8.8	--	--	--
24...	1707	10.0	3600	395	8.2	25.0	--	10.6	--	--	--
24...	1709	1.0	3600	393	8.3	25.0	--	11.4	--	--	--
24...	1710	--	3600	--	--	--	--	--	76.9	18.7	84.8
25...	0620	--	625	--	--	--	--	--	52.8	19.9	61.7
25...	0625	33.0	625	401	6.6	24.1	20.0	7.7	58.0	13.9	63.9
25...	0628	16.0	625	399	6.7	24.0	--	7.7	--	--	--
25...	0630	10.0	625	397	6.7	24.0	--	7.7	46.4	13.0	52.0
25...	0632	4.0	625	397	6.7	24.0	--	7.7	57.3	13.9	63.2
25...	0633	1.0	625	396	6.7	24.0	--	7.7	52.2	14.3	58.4
25...	0635	6.0	1600	394	6.6	24.0	17.0	7.6	--	--	--

384605077015800 - POTOMAC RIVER AT ROSIER BLUFFS

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLLI- A FLUORO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLLI- A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)	
25....	0637	1.0	1600		394	394	6.6	24.1	6.6	24.1	---	---	7.7	---	---	49.6	---	19.1	---	58.1	---	
25....	0640	---	1600		---	---	---	---	---	---	---	---	---	---	---	55.2	---	19.3	---	63.8	---	
25....	0645	---	5000		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
25....	0646	13.0	3600		399	399	6.8	23.8	6.8	23.8	18.0	---	8.3	---	---	---	---	---	---	---	---	
25....	0648	1.0	3600		399	399	6.8	23.8	6.8	23.8	---	---	8.3	---	---	---	---	---	---	---	---	
25....	0650	---	3600		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
25....	1705	---	625		---	---	---	---	---	---	---	---	---	---	---	66.8	---	21.4	---	76.2	---	
25....	1710	30.0	625		388	388	6.8	24.5	6.8	24.5	28.0	---	7.5	---	57.3	---	15.8	---	64.1	---		
25....	1712	10.0	625		386	386	6.8	24.4	6.8	24.4	---	---	7.5	---	59.1	---	17.2	---	66.6	---		
25....	1714	4.0	625		386	386	6.9	24.4	6.9	24.4	---	---	7.6	---	55.7	---	18.2	---	63.8	---		
25....	1716	1.0	625		385	385	6.9	24.4	6.9	24.4	---	---	8.0	---	65.0	---	15.3	---	71.5	---		
25....	1720	8.0	1600		402	402	6.8	24.6	6.8	24.6	22.0	---	8.0	---	68.0	---	13.4	---	73.5	---		
25....	1722	1.0	1600		406	406	7.2	24.9	7.2	24.9	---	---	9.2	---	---	---	---	---	---	---	---	
25....	1725	---	1600		---	---	---	---	---	---	---	---	---	---	---	72.4	---	13.9	---	78.1	---	
25....	1730	---	5000		---	---	---	---	---	---	---	---	---	---	---	66.8	---	13.0	---	72.1	---	
25....	1732	8.0	3600		407	407	7.0	24.9	7.0	24.9	23.0	---	8.8	---	---	---	---	---	---	---	---	
25....	1734	1.0	3600		405	405	7.1	24.9	7.1	24.9	---	---	9.2	---	---	---	---	---	---	---	---	
25....	1735	---	3600		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25....	0620	---	625		---	---	---	---	---	---	---	---	---	---	---	76.4	---	12.3	---	81.3	---	
26....	0625	32.0	625		384	384	6.5	24.0	6.5	24.0	18.0	---	6.8	---	46.9	---	14.9	---	53.4	---		
26....	0627	20.0	625		393	393	6.5	24.0	6.5	24.0	---	---	6.7	---	52.4	---	18.3	---	60.5	---		
26....	0629	10.0	625		382	382	6.4	24.1	6.4	24.1	---	---	6.7	---	---	---	---	---	---	---	---	
26....	0631	4.0	625		381	381	6.4	24.0	6.4	24.0	---	---	6.6	---	49.2	---	19.8	---	58.1	---		
26....	0633	1.0	625		381	381	6.4	24.0	6.4	24.0	---	---	6.6	---	50.7	---	13.2	---	56.4	---		
26....	0635	7.0	1600		383	383	6.4	23.9	6.4	23.9	18.0	---	6.6	---	46.4	---	20.0	---	55.5	---		
26....	0637	1.0	1600		393	393	6.4	23.9	6.4	23.9	---	---	6.7	---	---	---	---	---	---	---	---	
26....	0640	---	1600		---	---	---	---	---	---	---	---	---	---	---	51.0	---	14.5	---	57.4	---	
26....	0645	---	5000		---	---	---	---	---	---	---	---	---	---	---	54.3	---	16.5	---	61.6	---	
26....	0646	11.0	3600		401	401	6.5	23.9	6.5	23.9	17.0	---	7.3	---	---	---	---	---	---	---	---	
26....	0648	1.0	3600		402	402	6.5	23.9	6.5	23.9	---	---	7.5	---	---	---	---	---	---	---	---	
26....	0650	---	3600		---	---	---	---	---	---	---	---	---	---	---	60.0	---	15.4	---	66.6	---	
26....	1630	---	625		---	---	---	---	---	---	---	---	---	---	---	55.6	---	---	---	---	---	
26....	1635	29.0	625		397	397	7.1	24.3	7.1	24.3	16.0	---	6.8	---	50.0	---	23.1	---	60.5	---		
26....	1637	10.0	625		387	387	7.3	24.5	7.3	24.5	---	---	7.6	---	53.5	---	17.0	---	61.0	---		
26....	1639	7.0	625		388	388	7.5	24.7	7.5	24.7	---	---	8.2	---	61.9	---	15.8	---	68.7	---		
26....	1641	4.0	625		388	388	7.7	24.8	7.7	24.8	---	---	9.1	---	62.4	---	11.2	---	67.7	---		
26....	1643	1.0	625		388	388	7.9	25.0	7.9	25.0	---	---	9.3	---	63.2	---	11.2	---	67.7	---		
26....	1650	---	5000		---	---	---	---	---	---	---	---	---	---	---	61.0	---	12.5	---	66.2	---	
26....	1652	7.0	1600		394	394	7.4	24.5	7.4	24.5	18.0	---	7.9	---	---	---	---	---	---	---	---	

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC CORR. (JG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
AUG 26...	1654	1.0	1600	394	7.4	24.6	--	8.1	--	--	--
26...	1655	--	1600	--	--	--	--	--	56.4	17.6	64.1
26...	1700	10.0	3600	399	7.5	24.6	19.0	8.3	--	--	--
26...	1702	5.0	3600	400	7.7	24.8	--	8.8	--	--	--
26...	1704	1.0	3600	401	7.8	24.8	--	9.3	--	--	--
26...	1705	--	3600	--	--	--	--	--	67.7	11.7	72.4
SEP 10...	0820	--	625	--	--	--	--	--	30.8	14.1	37.2
16...	1340	--	3600	--	--	--	--	--	33.3	20.3	42.6
16...	1345	3.0	3600	476	6.4	24.6	--	6.0	--	--	--
16...	1350	3.0	625	476	6.4	24.7	--	5.8	--	--	--
16...	1355	--	625	--	--	--	--	--	30.0	24.1	41.2
22...	0930	--	625	--	--	--	--	--	20.3	11.6	25.6

APPENDIX A-2

384318077020300 - POTOMAC RIVER AT HATTON POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LCC- ATION, CRDSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLDRO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L)	CHLDRO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)	PHEOPHY -TIN A FLURO- METRIC METHOD (UG/L)	CHLDRO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32217)	(32213)	(32217)
OCT 02...	1510	38.0	300	366	6.6	22.4	35.0	4.3	--	--	--	--
OCT 02...	1512	19.0	300	367	6.6	22.4	--	4.3	--	--	--	--
OCT 02...	1514	1.0	300	374	6.7	22.9	--	4.9	--	--	--	--
OCT 02...	1515	--	300	--	--	--	--	--	8.9	8.9	8.9	13.1
OCT 02...	1520	--	50000	--	--	--	--	--	10.6	10.6	10.6	14.7
OCT 02...	1525	37.0	1000	356	6.6	22.3	24.0	4.1	8.8	10.4	10.4	13.7
OCT 02...	1527	17.0	1000	356	6.6	22.3	--	4.2	8.9	9.8	9.8	13.5
OCT 02...	1529	6.0	1000	357	6.6	22.4	--	4.5	7.3	8.3	8.3	11.2
OCT 02...	1531	1.0	1000	356	6.6	22.6	--	4.9	10.0	7.9	7.9	13.7
OCT 02...	1542	1.0	2400	362	6.6	22.7	30.0	5.2	--	--	--	--
OCT 02...	1543	--	2400	--	--	--	--	--	10.4	6.4	6.4	13.3
OCT 03...	1025	1.0	2400	398	6.4	20.5	28.0	5.1	--	--	--	--
OCT 03...	1026	--	2400	--	--	--	--	--	7.8	6.3	6.3	10.7
OCT 03...	1028	38.0	1000	395	6.4	20.8	28.0	5.1	9.0	9.1	9.1	13.3
OCT 03...	1030	17.0	1000	398	6.5	20.8	--	5.2	8.0	7.9	7.9	11.7
OCT 03...	1032	6.0	1000	399	6.4	20.8	--	5.2	9.0	6.8	6.8	12.2
OCT 03...	1036	1.0	1000	398	6.4	20.8	--	5.3	9.0	5.7	5.7	11.7
OCT 03...	1045	38.0	300	390	6.4	21.0	25.0	5.1	--	--	--	--
OCT 03...	1046	19.0	300	392	6.4	21.0	--	5.0	--	--	--	--
OCT 03...	1047	1.0	300	393	6.4	20.9	--	5.1	--	--	--	--
OCT 03...	1048	--	300	--	--	--	--	--	10.5	6.6	6.6	13.6
OCT 03...	1050	--	50000	--	--	--	--	--	9.8	7.0	7.0	13.1
OCT 21...	1000	35.0	300	449	6.9	17.0	22.0	7.3	--	--	--	--
OCT 21...	1002	19.0	300	448	6.9	17.0	--	7.2	--	--	--	--
OCT 21...	1004	1.0	300	443	6.9	17.2	--	7.2	--	--	--	--
OCT 21...	1005	--	300	--	--	--	--	--	14.5	7.2	7.2	17.8
OCT 21...	1010	--	50000	--	--	--	--	--	10.4	6.9	6.9	13.6
OCT 21...	1015	35.0	1000	443	6.8	17.2	30.0	7.1	18.5	11.2	11.2	23.6
OCT 21...	1017	19.0	1000	443	6.8	17.2	--	7.1	15.2	10.1	10.1	19.9
OCT 21...	1019	6.0	1000	442	6.9	17.2	--	7.2	14.4	6.4	6.4	17.3
OCT 21...	1021	1.0	1000	442	6.9	17.2	--	7.2	14.0	6.9	6.9	17.2
NOV 18...	1335	37.0	1000	496	7.7	8.5	28.0	9.8	7.0	6.6	6.6	10.1
NOV 18...	1337	17.0	1000	497	7.7	8.6	--	9.8	6.8	5.3	5.3	9.3
NOV 18...	1339	2.0	1000	497	7.7	8.6	--	9.7	5.6	4.7	4.7	8.8
NOV 18...	1345	--	50000	--	--	--	--	--	6.8	5.0	5.0	9.1
NOV 18...	1350	41.0	300	497	7.7	8.7	35.0	9.8	--	--	--	--
NOV 18...	1352	19.0	300	497	7.7	8.6	--	9.7	--	--	--	--
NOV 18...	1354	2.0	300	497	7.7	8.6	--	9.8	--	--	--	--
NOV 18...	1355	--	300	--	--	--	--	--	6.4	5.2	5.2	8.8

394318077020300 - POTOMAC RIVER AT HATTON POINT --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD CORR. (UG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
DEC 16...	1330	40.0	300	341	7.7	5.7	24.0	10.7	--	--	--
16...	1332	19.0	300	341	7.7	5.6	--	10.8	--	--	--
16...	1334	1.0	300	341	7.7	5.7	--	10.8	--	--	--
16...	1335	--	300	--	--	--	23.0	--	2.7	8.1	6.6
16...	1340	38.0	1000	341	7.7	5.6	--	10.8	3.8	10.9	9.0
16...	1341	25.0	1000	341	7.7	5.6	--	10.8	3.0	10.0	7.8
16...	1343	17.0	1000	341	7.7	5.6	--	10.8	2.7	8.4	6.7
16...	1345	--	50000	--	--	--	--	--	2.5	6.4	5.5
16...	1346	--	1000	--	--	--	--	--	2.7	7.7	6.4
16...	1347	8.0	1000	341	7.7	5.6	--	10.9	2.9	8.1	6.8
16...	1348	1.0	1000	341	7.7	5.6	--	10.9	2.4	7.0	5.8
16...	1350	4.0	2400	339	7.7	4.9	24.0	10.7	--	--	--
16...	1352	1.0	2400	339	7.7	4.8	--	10.8	--	--	--
16...	1353	--	2400	--	--	--	--	--	1.1	3.4	2.7
FEB 03...	1535	41.0	1000	554	8.0	3.1	--	11.9	--	--	--
03...	1537	20.0	1000	553	8.0	3.1	--	11.8	--	--	--
03...	1539	3.0	1000	553	8.0	3.2	--	11.7	7.1	2.1	8.0
04...	1040	40.0	1000	564	7.7	2.5	38.0	14.2	10.0	5.6	12.4
04...	1041	18.0	1000	564	7.9	2.5	--	13.1	8.3	2.9	9.6
04...	1042	10.0	1000	564	8.0	2.5	--	12.3	8.0	2.6	9.2
04...	1043	2.0	1000	564	8.0	2.5	--	12.4	7.8	3.2	9.3
04...	1045	--	1000	--	--	--	--	--	8.6	4.4	10.6
MAR 04...	0905	--	1000	--	--	--	--	--	4.1	5.4	6.6
04...	0907	39.0	1000	204	7.6	7.1	23.0	11.5	16.9	25.1	28.8
04...	0909	30.0	1000	204	7.6	7.1	--	11.4	5.8	6.8	9.0
04...	0911	18.0	1000	203	7.6	7.1	--	11.4	4.8	7.6	8.4
04...	0913	2.0	1000	204	7.6	7.1	--	11.4	2.8	3.2	4.3
18...	1000	3.0	1000	358	7.6	6.1	--	10.0	6.1	4.5	8.2
18...	1145	3.0	1000	287	7.6	6.1	--	10.8	15.5	3.1	16.8
APR 01...	1620	--	1000	--	--	--	--	--	10.9	9.8	15.5
15...	0852	38.0	1000	273	7.3	13.9	16.0	9.4	53.3	85.4	94.0
15...	0854	28.0	1000	273	7.4	13.9	--	9.4	39.5	41.8	59.2
15...	0856	15.0	1000	272	7.4	14.0	--	9.5	36.6	38.2	54.6
15...	0858	2.0	1000	274	7.4	14.0	--	9.5	31.9	27.9	45.0
29...	1345	--	1000	--	--	--	--	--	28.0	14.9	34.8
29...	1350	--	2400	--	--	--	--	--	34.7	40.9	54.1
MAY 19...	0912	39.0	1000	259	7.0	18.3	24.0	5.9	3.1	10.5	8.2

384318077020300 - POTOMAC RIVER AT HATTON POINT --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMP- LING SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLDR- PHYLL: A FLUORO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPY FLUORO- METRIC METHOD (UG/L)	(32213)	CHLDR- PHYLL: A FLURO- METRIC METHOD UNCORR. (UG/L)	(32217)
MAY	0914	30.0	1000		260		7.0	18.3				5.7		3.0	9.5	7.6				
	0916	20.0	1000		259		7.0	18.4				5.7		2.5	9.3	7.0				
	0918	10.0	1000		260		7.0	18.4				5.6		2.7	9.0	7.1				
	0920	2.0	1000		261		7.0	18.4				5.7		2.9	8.9	7.2				
JUN	1200		1000											6.9	5.5	9.4				
	1117	40.0	1000		255		6.5	26.6				5.1		12.0	18.9	21.0				
	1119	30.0	1000		255		6.5	26.6				5.2		9.7	9.4	14.1				
	1121	23.0	1000		254		6.5	26.6				5.2		11.3	7.4	14.8				
	1123	15.0	1000		250		6.5	26.6				5.3		12.9	9.9	17.5				
	1125	7.0	1000		253		6.5	27.0				5.8		12.0	4.2	13.8				
	1127	2.0	1000		258		6.6	27.3				5.8		8.3	3.7	10.0				
JUL	1748		1000											7.5	9.0	11.8				
	1750	38.0	1000		266		5.8	25.7				4.4		8.7	16.2	16.4				
	1752	35.0	1000		266		5.9	25.7				4.4		8.0	10.9	13.2				
	1754	28.0	1000		266		5.9	25.7				4.3		9.0	12.8	15.1				
	1756	21.0	1000		266		5.9	25.8				4.4		8.9	10.8	14.0				
	1758	14.0	1000		266		5.8	25.8				4.6		9.3	8.6	12.3				
	1800	7.0	1000		264		5.9	25.9				4.7		8.3	6.3	11.3				
	1802	2.0	1000		268		5.9	25.9		32.0		4.8		9.5	5.4	11.0				
	1805		2400											7.8	3.4	9.3				
	1904		300											14.7	8.5	18.6				
	1905	40.0	300		278		6.7	27.2		24.0		5.5								
	1907	19.0	300		271		6.7	27.4				5.6								
	1909	7.0	300		266		6.7	27.6				5.7								
	1911	2.0	300		258		6.7	28.2				7.1								
	1912		1000											17.1	7.1	20.3				
	1913	37.0	1000		279		6.7	27.1		30.0		5.4		10.7	10.1	15.5				
	1914	30.0	1000		279		6.7	27.1				5.5		11.0	12.0	16.7				
	1916	23.0	1000		285		6.8	27.5				6.2		19.6	7.7	23.1				
	1917	17.0	1000		282		6.8	27.8				6.5		21.4	4.6	23.3				
	1918	8.0	1000		277		6.8	28.0				6.8		25.1	5.2	27.3				
	1919	2.0	1000		266		6.8	28.1				6.8		26.5	3.5	27.8				
	1920		5000											17.0	7.9	20.6				
	1930	2.0	2400		259		6.7	27.8		24.0		5.2								
	1931		2400											7.4	4.2	9.3				
	1800	2.0	1000		287		6.3	29.4		39.0		7.8		36.2	6.4	38.8				
	1802	7.0	1000		286		6.2	29.1				6.8		26.4	7.0	29.4				
	1804	14.0	1000		284		6.1	28.8				6.2		21.7	4.9	23.8				

APPENDIX A-2

384318077020300 - POTOMAC RIVER AT HATTON POINT --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LJC- ATION, CRDSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECHI DISK)	(IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLLIA METRIC METHOD CORR.	(JG/L)	(32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD	(UG/L)	(32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR.	(UG/L)	(32217)
JUL 10...	1806	21.0	1000		284		6.0	28.5						5.3		12.1		6.4		15.1				
10...	1808	28.0	1000		295		6.0	28.5						5.2		10.6		7.9		14.3				
10...	1810	35.0	1000		289		6.1	28.5						6.0		8.7		10.2		13.6				
10...	1815		1000													18.0		7.8		21.5				
10...	1820		2400													14.2		6.7		17.2				
13...	1905	2.0	1000		301		6.0	29.8		34.0				6.9		22.5		6.3		25.2				
13...	1907	7.0	1000		301		6.0	29.7						6.5		19.4		6.4		22.2				
13...	1909	14.0	1000		305		5.9	29.5						5.3		9.5		7.8		13.1				
13...	1911	21.0	1000		305		5.9	29.5						5.3		11.3		6.9		14.5				
13...	1913	28.0	1000		305		5.9	29.5						5.3		11.0		6.3		13.9				
13...	1915	35.0	1000		305		5.9	29.5						5.1		9.2		7.9		12.9				
13...	1917	39.0	1000		306		5.9	29.5						5.1		9.5		8.2		13.3				
13...	1920		1000													12.7		7.8		16.3				
13...	1925		2400													13.7		7.2		17.0				
15...	1646	37.0	1000		311		7.3	28.6		42.0				4.9		16.7		16.6		24.5				
15...	1647	31.0	1000		310		7.3	28.7						5.0		18.3		7.3		21.6				
15...	1649	26.0	1000		310		7.3	28.7						5.2		18.9		8.5		22.7				
15...	1651	19.0	1000		307		7.3	28.9						5.5		19.4		6.1		22.0				
15...	1653	13.0	1000		308		7.3	28.8						5.4		18.5		7.2		21.7				
15...	1655	7.0	1000		307		7.3	29.0						5.7		19.9		4.8		21.9				
15...	1657	2.0	1000		306		7.3	29.1						5.8		19.2		5.2		21.4				
17...	1640		1000													21.6		6.4		24.4				
17...	1645	36.0	1000		305		6.7	27.8		35.0				3.6		13.4		8.6		17.4				
17...	1647	31.0	1000		306		6.7	27.8						3.6		13.8		9.1		18.0				
17...	1649	26.0	1000		308		6.8	27.9						3.7		15.9		7.2		19.2				
17...	1651	21.0	1000		308		6.8	27.9						3.7		15.3		8.1		19.0				
17...	1653	14.0	1000		307		6.8	28.0						3.7		17.3		6.8		20.4				
17...	1655	7.0	1000		309		6.8	28.4						4.5		24.7		5.2		26.9				
17...	1657	2.0	1000		310		7.0	28.8						5.8		35.3		6.5		38.0				
17...	1700		2400													11.4		3.7		13.0				
20...	0625		50000													25.3		13.2		31.3				
20...	0626		300													30.6		12.4		36.1				
20...	0627		300																					
20...	0629	41.0	300		303		6.7	28.6		34.0				5.0										
20...	0631	20.0	300		304		6.7	28.6						5.1										
20...	0631	1.0	300		305		6.7	28.6						5.2										
20...	0639		1000													29.8								
20...	0640	39.0	1000		301		6.7	28.5										15.1		36.7				
20...	0642	34.0	1000		301		6.7	28.6		30.0								34.1		50.1				
20...	0643	28.0	1000		302		6.7	28.6										20.4		38.0				
20...	0643		1000													28.4		17.1		36.3				

384316077020300 - POTOMAC RIVER AT HATTON POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCI DISK)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLDRO- PHYLLA FLURO- METRIC METHOD CORR., (UG/L)	(32209)	PHEOPHY -TIN A FLURO- METRIC METHOD (UG/L)	(32213)	CHLDRO- PHYLLA FLURO- METRIC METHOD UNCORR., (UG/L)	(32217)
JUL 20	0645	21.0		1000		302		6.7		28.6			5.3		27.8		13.3		33.9	
20	0647	14.0		1000		303		6.7		28.6			5.1		28.2		10.3		32.8	
20	0648	7.0		1000		305		6.7		28.6			5.1		27.6		9.5		31.8	
20	0649	1.0		1000		305		6.7		28.6			5.1		27.7		8.0		31.2	
20	0650	2.0		2400		302		6.7		28.2	23.0		4.9							
20	0652	--		2400		--		--		--			--		24.7		18.7		33.4	
20	1624	--		300		--		--		--			--		40.4		7.2		43.3	
20	1625	40.0		300		306		6.8		29.0	34.0		5.1							
20	1627	20.0		300		307		6.9		29.3			6.2							
20	1629	1.0		300		303		7.0		29.5			7.2							
20	1635	--		50000		--		--		--			--		41.5		9.0		45.3	
20	1640	--		1000		--		--		--			--		32.8		10.7		37.5	
20	1645	35.0		1000		310		6.8		29.0	32.0		5.1		31.7		14.9		38.5	
20	1647	28.0		1000		311		6.8		29.0			5.1		31.4		15.7		38.6	
20	1649	21.0		1000		310		6.8		29.1			5.2		30.0		12.6		35.7	
20	1651	14.0		1000		310		6.8		29.1			5.7		33.6		10.9		38.4	
20	1653	7.0		1000		310		6.9		29.3			6.4		39.0		9.2		42.9	
20	1655	1.0		1000		310		6.9		29.3			6.4		41.5		9.5		45.5	
20	1700	2.0		2400		302		7.0		29.6			7.5							
20	0958	--		300		--		--		--			--		41.6		6.2		44.0	
21	1000	41.0		300		295		6.7		28.9	30.0		5.0		21.7		9.7		26.1	
21	1002	20.0		300		295		6.7		28.9			5.0							
21	1004	1.0		300		294		6.7		29.0			5.2							
21	1008	--		1000		--		--		--			--		23.3		8.2		26.9	
21	1010	39.0		1000		293		6.7		28.8	30.0		4.8		27.2		48.9		50.6	
21	1012	34.0		1000		293		6.7		28.9			4.8		22.5		16.7		30.3	
21	1014	28.0		1000		294		6.7		28.8			4.9		23.4		11.8		28.8	
21	1016	21.0		1000		294		6.7		28.8			4.9		23.5		8.6		27.4	
21	1017	14.0		1000		294		6.7		28.9			5.0		20.9		10.5		25.7	
21	1018	7.0		1000		293		6.7		28.9			5.0		22.3		6.6		25.2	
21	1019	1.0		1000		293		6.7		28.9			5.2		20.8		8.3		24.6	
21	1020	--		50000		--		--		--			--		29.4		9.8		33.8	
21	1030	2.0		2400		282		7.1		28.8			7.2							
21	1031	--		2400		--		--		--			--		65.9		11.9		70.7	
21	1618	--		300		--		--		--			--		54.8		9.4		58.6	
21	1620	37.0		300		306		6.7		29.3	22.0		5.5							
21	1622	20.0		300		305		6.8		29.4			6.4							
21	1624	1.0		300		305		7.1		29.7			7.9							

APPENDIX A-2

--Cont.

384318077020300 - POTOMAC RIVER AT HATTON POINT
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHDS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLIA FLUORO- METRIC METHOD CORR, (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUL 21...	1630	---	1000	---	---	---	---	---	46.3	12.9	51.0
21...	1635	34.0	1000	311	6.7	29.1	-31.0	5.2	40.8	18.4	49.2
21...	1637	28.0	1000	311	6.7	29.1	---	5.2	39.1	14.3	45.4
21...	1639	21.0	1000	311	6.7	29.2	---	5.3	39.6	14.1	45.8
21...	1641	14.0	1000	311	6.7	29.2	---	5.6	45.0	8.8	48.6
21...	1643	7.0	1000	311	6.8	29.4	---	6.2	55.8	13.2	61.4
21...	1644	1.0	1000	312	7.0	29.5	---	6.8	51.9	8.6	55.3
21...	1650	---	50000	---	---	---	---	---	54.1	9.7	58.0
21...	1655	3.0	2400	303	6.9	29.6	---	7.4	---	---	---
21...	1656	---	2400	---	---	---	---	---	48.1	11.7	53.1
21...	1656	---	300	---	---	---	---	---	43.3	13.2	49.0
22...	0604	---	300	---	---	---	28.0	5.6	---	---	---
22...	0605	42.0	300	309	7.0	28.8	---	5.4	---	---	---
22...	0607	21.0	300	310	7.0	28.7	---	5.3	---	---	---
22...	0609	1.0	300	312	6.9	28.6	---	5.6	---	---	---
22...	0610	39.0	1000	308	6.9	28.8	28.0	5.8	44.5	13.3	50.3
22...	0611	34.0	1000	308	6.9	28.7	---	5.8	48.9	10.4	53.2
22...	0612	28.0	1000	308	6.9	28.7	---	5.8	44.2	12.6	49.6
22...	0613	21.0	1000	309	6.9	28.7	---	5.7	46.2	13.3	51.9
22...	0615	14.0	1000	312	6.9	28.8	---	5.2	41.1	13.3	47.0
22...	0617	7.0	1000	314	6.9	28.8	---	5.2	39.3	13.3	45.2
22...	0619	1.0	1000	314	6.9	28.8	---	5.2	40.0	12.6	45.6
22...	0620	---	1000	---	---	---	---	---	42.5	14.7	49.0
22...	0620	---	50000	---	---	---	---	---	42.7	13.3	48.5
22...	0625	---	50000	305	6.8	28.5	---	5.6	---	---	---
22...	0635	2.0	2400	---	---	---	---	---	34.6	12.0	39.9
22...	0636	---	2400	---	---	---	---	---	47.0	10.1	51.2
27...	1807	2.0	1000	---	---	---	---	---	48.0	5.6	50.0
27...	1808	7.0	1000	---	---	---	---	---	47.9	8.4	51.3
27...	1809	13.0	1000	---	---	---	---	---	31.9	11.1	36.8
27...	1810	20.0	1000	---	---	---	---	---	32.7	11.5	37.8
27...	1811	26.0	1000	---	---	---	---	---	30.6	10.6	35.3
27...	1812	32.0	1000	---	---	---	---	---	31.5	9.7	35.8
27...	1813	35.0	1000	---	---	---	---	---	32.8	10.6	37.5
27...	1815	---	1000	---	---	---	---	---	53.6	10.0	57.7
27...	1820	---	2400	---	---	---	---	---	59.4	25.6	71.0
28...	1125	39.0	1000	333	7.4	27.6	---	5.9	62.9	13.2	68.4
28...	1127	33.0	1000	333	7.4	27.6	---	6.0	56.8	19.4	65.4
28...	1128	26.0	1000	333	7.4	27.6	---	6.0	59.5	16.0	66.4
28...	1129	19.0	1000	334	7.4	27.6	---	6.0	56.2	17.1	63.8
28...	1130	---	1000	---	---	---	---	---	---	---	---

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

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY --TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
(00003)	(00009)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)	
JUL											
28...	1131	13.0	1000	335	7.5	27.6	--	6.1	60.0	14.4	66.1
28...	1133	6.0	1000	335	7.5	27.6	--	6.1	59.4	13.2	64.9
28...	1135	1.6	1000	331	7.5	27.5	--	6.2	57.6	12.7	62.9
29...	1745	32.0	1000	312	7.0	27.5	22.0	6.0	56.1	17.8	63.9
29...	1747	26.0	1000	312	6.9	27.5	--	5.8	50.4	13.9	56.4
29...	1749	20.0	1000	311	6.9	27.4	--	5.9	47.2	12.9	52.8
29...	1751	13.0	1000	309	6.9	27.5	--	5.9	47.4	10.1	51.6
29...	1753	6.0	1000	309	7.0	27.5	--	6.0	47.3	12.1	52.5
29...	1755	2.0	1000	309	7.0	27.5	--	6.1	47.9	7.8	51.9
29...	1800	--	1000	294	--	--	--	--	55.9	15.0	62.3
29...	1805	3.0	2400	294	8.5	27.7	--	11.8	--	--	--
29...	1806	--	2400	294	--	--	--	--	130	5.3	130
31...	1910	--	1000	319	--	--	--	--	60.9	10.0	64.7
31...	1915	37.0	1000	332	6.9	26.8	20.0	6.7	73.8	31.9	88.2
31...	1917	32.0	1000	332	6.9	26.7	--	6.6	60.9	20.2	69.8
31...	1919	26.0	1000	319	6.9	26.7	--	6.6	61.7	14.9	68.1
31...	1921	20.0	1000	318	6.9	26.7	--	6.5	55.4	12.4	60.6
31...	1923	13.0	1000	318	7.0	26.8	--	6.5	57.4	7.9	60.4
31...	1925	9.0	1000	318	7.0	26.8	--	6.6	57.2	8.5	60.5
31...	1926	6.0	1000	316	7.4	27.0	--	8.5	86.7	10.7	90.6
31...	1927	2.0	1000	316	7.4	27.1	--	8.8	67.0	10.8	71.2
31...	1931	3.0	2400	301	8.8	28.4	16.0	16.0	--	--	--
31...	1932	--	2400	--	--	--	--	--	119	4.9	120
AUG											
04...	1520	2.0	2400	333	8.5	28.2	15.0	11.8	26.3	19.2	35.3
04...	1521	--	2400	--	--	--	--	--	45.0	20.3	54.2
04...	1533	--	1000	--	--	--	--	--	33.2	25.4	45.0
04...	1534	35.0	1000	--	--	--	--	--	32.4	23.8	43.5
04...	1535	32.0	1000	335	7.6	27.7	18.0	7.8	29.0	19.1	37.8
04...	1536	26.0	1000	336	7.7	27.7	--	8.0	32.1	16.3	39.6
04...	1537	20.0	1000	335	7.9	28.0	--	8.2	45.0	17.5	52.8
04...	1538	13.0	1000	330	8.1	28.2	--	9.0	61.4	13.1	66.9
04...	1539	6.0	1000	330	8.3	28.4	--	10.4	69.5	14.0	75.3
04...	1541	2.0	1000	329	8.4	28.4	--	10.8	--	--	--
06...	1420	39.0	300	329	7.3	27.7	--	6.4	--	--	--
06...	1422	20.0	300	328	7.3	27.7	--	6.2	--	--	--
06...	1424	1.0	300	328	7.3	27.7	--	6.4	--	--	--
06...	1425	--	300	--	--	--	--	--	53.0	15.0	59.5
06...	1430	--	5000	--	--	--	--	--	59.7	11.1	64.3
06...	1431	--	1000	--	--	--	--	--	53.6	13.8	59.5

APPENDIX A-2

384318077020300 - POTOMAC RIVER AT HATTON POINT --Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	LING (FT)	SECTION FM BANK	SPE- CIFIC CON- DUCT*	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN))	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL/A FLUORO- METRIC METHOD CORR. (UG/L)	CHLORO- PHYLL A FLOURO- METRIC METHOD UNCORR. (UG/L)	PHEOPY -TIN A FLURO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLOURO- METRIC METHOD (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)	(32213)	(32217)
06...	1432	39.0	1000	329	7.3	27.6	19.0	6.5	63.3	16.3	70.3	16.3	70.3
06...	1434	35.0	1000	329	7.3	27.6	--	6.5	62.6	15.7	69.3	15.7	69.3
06...	1436	28.0	1000	328	7.3	27.6	--	6.4	68.4	15.6	75.0	15.6	75.0
06...	1438	21.0	1000	327	7.2	27.7	--	6.1	54.5	14.0	60.5	14.0	60.5
06...	1440	14.0	1000	326	7.2	27.7	--	6.0	51.3	12.5	56.6	12.5	56.6
06...	1442	7.0	1000	327	7.2	27.7	--	6.1	52.0	12.0	57.1	12.0	57.1
06...	1444	1.0	1000	326	7.2	27.7	--	6.2	53.0	12.9	58.5	12.9	58.5
06...	1445	5.0	2400	330	7.4	27.5	--	6.9	--	--	--	--	--
06...	1446	1.0	2400	330	7.5	27.5	--	6.9	--	--	--	--	--
06...	1447	--	2400	--	--	--	--	--	69.6	14.4	75.6	14.4	75.6
07...	1729	--	1000	--	--	--	--	--	52.5	17.0	60.0	17.0	60.0
07...	1730	32.0	1000	345	7.1	26.8	22.0	5.4	50.2	19.6	59.0	19.6	59.0
07...	1731	26.0	1000	345	7.2	26.9	--	6.1	55.8	17.4	63.4	17.4	63.4
07...	1733	20.0	1000	343	7.3	27.1	--	6.6	62.3	13.5	67.9	13.5	67.9
07...	1734	16.0	1000	342	7.8	27.5	--	7.6	57.4	15.8	64.2	15.8	64.2
07...	1735	13.0	1000	353	8.0	27.7	--	8.9	63.2	14.4	69.2	14.4	69.2
07...	1737	6.0	1000	352	8.0	27.9	--	9.3	67.8	12.8	73.0	12.8	73.0
07...	1738	2.0	1000	351	8.3	28.5	--	10.7	80.8	6.4	82.8	6.4	82.8
07...	1745	3.0	2400	357	8.5	27.9	18.0	11.5	--	--	--	--	--
07...	1746	--	2400	--	--	--	--	--	99.0	12.8	103	12.8	103
07...	1928	--	1000	--	--	--	--	--	87.8	11.5	92.1	11.5	92.1
10...	1930	32.0	1000	355	7.3	28.0	19.0	7.2	62.8	13.5	68.4	13.5	68.4
10...	1932	26.0	1000	355	7.4	28.0	--	7.4	60.5	17.3	68.0	17.3	68.0
10...	1934	20.0	1000	353	7.5	28.1	--	7.9	60.0	18.6	68.1	18.6	68.1
10...	1935	16.0	1000	350	8.1	28.6	--	10.8	--	--	--	--	--
10...	1936	13.0	1000	349	8.3	28.6	--	11.3	81.4	14.6	87.3	14.6	87.3
10...	1938	6.0	1000	349	8.4	28.8	--	12.4	93.9	7.8	96.3	7.8	96.3
10...	1940	2.0	1000	349	8.5	28.8	--	13.0	96.8	11.9	101	11.9	101
10...	1945	3.0	2400	361	8.3	28.3	--	10.3	--	--	--	--	--
10...	1946	--	2400	--	--	--	--	--	80.4	12.3	85.2	12.3	85.2
18...	1229	--	300	--	--	--	--	--	61.3	11.4	66.0	11.4	66.0
18...	1230	38.0	300	360	7.5	26.8	24.0	6.3	--	--	--	--	--
18...	1232	19.0	300	359	7.5	26.7	--	6.2	--	--	--	--	--
18...	1234	6.0	300	360	7.6	26.9	--	6.7	--	--	--	--	--
18...	1236	1.6	300	360	7.9	27.1	--	7.8	--	--	--	--	--
18...	1240	--	50000	--	--	--	--	--	61.5	11.1	66.0	11.1	66.0
18...	1248	--	1000	--	--	--	--	--	50.9	15.0	57.4	15.0	57.4
18...	1250	39.0	1000	353	7.2	26.7	30.0	4.8	51.9	22.3	62.0	22.3	62.0
18...	1254	32.0	1000	353	7.2	26.7	--	4.8	47.2	21.4	56.9	21.4	56.9

384318077020300 - POTOMAC RIVER AT HATTON POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION (FT FM BANK)	SPE- CIFIC CON- DUCTI- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLDRO- PHYLLI A FLURO- METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLURO- METRIC METHOD (UG/L)	CHLDRO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG 18...	1255	26.0	1000	353	7.2	26.7	--	4.8	47.7	20.6	57.0
18...	1256	19.0	1000	354	7.2	26.7	--	4.9	47.2	18.3	55.4
18...	1258	13.0	1000	354	7.2	26.8	--	5.0	52.2	13.6	58.0
18...	1259	7.0	1000	356	7.4	26.9	--	6.0	56.1	13.8	61.9
18...	1301	5.0	1000	359	7.4	26.9	--	6.4	63.6	11.5	68.3
18...	1302	2.0	1000	360	7.8	27.0	--	9.3	86.0	11.9	90.5
18...	1305	3.0	2400	354	7.5	27.1	--	6.7	--	--	--
18...	1306	--	2400	--	--	--	--	--	61.9	15.4	68.4
24...	1714	--	2400	--	--	--	--	--	51.0	13.3	56.7
24...	1720	--	300	--	--	--	--	--	44.8	12.8	50.3
24...	1725	42.0	300	368	6.3	24.5	--	7.2	--	--	--
24...	1727	35.0	300	367	6.4	24.5	--	6.4	--	--	--
24...	1729	28.0	300	367	6.4	24.6	--	6.4	--	--	--
24...	1731	21.0	300	368	6.4	24.6	--	6.8	--	--	--
24...	1733	14.0	300	368	6.5	24.7	--	7.9	--	--	--
24...	1734	7.0	300	369	6.9	25.0	--	8.6	--	--	--
24...	1735	3.0	300	367	7.4	25.2	--	9.7	--	--	--
24...	1736	1.0	300	367	7.4	25.3	--	9.8	--	--	--
24...	1746	--	1000	--	--	--	--	--	40.3	15.2	47.1
24...	1747	38.0	1000	371	6.3	24.3	18.0	5.6	39.5	27.2	52.1
24...	1748	30.0	1000	370	6.3	24.4	--	6.0	35.6	17.6	43.7
24...	1749	20.0	1000	368	6.3	24.5	--	6.4	36.9	13.8	43.0
24...	1750	10.0	1000	369	6.6	24.9	--	7.6	49.4	10.4	53.7
24...	1752	4.0	1000	370	6.9	24.9	--	8.2	56.4	10.1	60.5
24...	1754	1.0	1000	370	7.0	24.9	--	8.6	66.4	6.0	68.4
24...	1815	5.0	2400	374	6.6	24.7	--	7.3	--	--	--
24...	1816	3.0	2400	374	6.6	24.6	--	7.3	--	--	--
24...	1817	1.0	2400	374	6.6	24.6	--	7.4	--	--	--
25...	0638	--	300	--	--	--	--	--	46.2	12.1	51.4
25...	0640	40.0	300	376	7.0	24.1	24.0	6.7	--	--	--
25...	0642	19.0	300	374	7.0	24.1	--	6.6	--	--	--
25...	0644	1.0	300	373	7.0	24.1	--	6.5	--	--	--
25...	0648	--	1000	--	--	--	--	--	41.1	16.2	48.4
25...	0650	36.0	1000	372	7.0	24.2	23.0	6.4	44.4	23.4	55.1
25...	0652	30.0	1000	373	7.0	24.2	--	6.4	42.7	21.7	52.6
25...	0654	20.0	1000	372	7.0	24.1	--	6.4	39.8	15.6	46.8
25...	0656	10.0	1000	372	7.0	24.1	--	6.3	41.2	14.1	47.5
25...	0658	4.0	1000	372	7.0	24.1	--	6.3	42.7	11.3	47.6
25...	0700	1.0	1000	371	7.0	24.1	--	6.3	40.8	14.7	47.4

APPENDIX A-2

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN))	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG 25....	0710	1.0	2400	376	7.0	24.0	16.0	6.6	---	---	---
25....	0711	---	2400	---	---	---	---	---	43.9	19.0	52.5
25....	0715	---	50000	---	---	---	---	---	46.2	12.1	51.4
25....	2308	---	300	---	---	---	---	---	65.2	13.1	70.5
25....	2310	42.0	300	402	7.3	24.2	---	8.0	---	---	---
25....	2311	20.0	300	406	7.5	24.2	---	8.2	---	---	---
25....	2312	10.0	300	406	7.5	24.2	---	8.3	---	---	---
25....	2313	4.0	300	406	7.5	24.2	---	8.3	---	---	---
25....	2314	1.0	300	406	7.5	24.2	---	8.4	---	---	---
25....	2320	---	50000	---	---	---	---	---	71.6	14.1	77.4
25....	2321	---	1000	---	---	---	---	---	70.2	13.9	75.9
25....	2322	34.0	1000	406	7.4	24.3	---	8.1	71.4	13.9	77.1
25....	2323	30.0	1000	406	7.4	24.3	---	8.1	69.0	16.5	75.0
25....	2324	20.0	1000	407	7.5	24.3	---	8.2	68.9	13.6	74.5
25....	2326	10.0	1000	407	7.5	24.3	---	8.3	68.7	20.3	77.6
25....	2328	4.0	1000	408	7.5	24.3	---	8.4	70.0	14.5	76.0
25....	2329	1.0	1000	409	7.5	24.0	---	8.4	71.4	11.9	76.2
25....	2330	---	2400	---	---	---	---	8.9	76.7	10.6	80.8
25....	2332	3.0	2400	403	7.6	24.1	---	8.9	---	---	---
25....	2334	1.0	2400	403	7.9	24.1	---	9.0	---	---	---
26....	0639	---	300	---	---	---	---	---	29.2	15.7	36.4
26....	0640.	37.0	300	363	6.7	23.9	25.0	5.7	---	---	---
26....	0642	19.0	300	361	6.7	23.9	---	5.6	---	---	---
26....	0644	1.0	300	361	6.7	23.9	---	5.6	---	---	---
26....	0648	---	1000	---	---	---	---	---	---	---	---
26....	0650	35.0	1000	371	6.8	23.8	29.0	6.0	34.1	16.2	41.4
26....	0652	30.0	1000	367	6.8	23.9	---	5.9	45.6	21.7	55.5
26....	0654	20.0	1000	361	6.7	24.0	---	5.6	36.8	16.0	44.0
26....	0656	10.0	1000	361	6.7	23.9	---	5.5	32.1	15.0	38.9
26....	0658	4.0	1000	360	6.6	23.9	---	5.5	30.0	15.3	37.0
26....	0700	1.0	1000	360	6.7	23.9	---	5.5	30.5	13.6	36.7
26....	0710	1.0	2400	367	6.7	23.8	18.0	5.8	30.5	14.1	37.0
26....	0711	---	2400	---	---	---	---	---	---	---	---
26....	0715	---	50000	---	---	---	---	---	38.9	15.6	45.8
26....	2044	---	300	---	---	---	---	---	33.1	15.4	40.1
26....	2045	43.0	300	369	6.4	24.6	---	5.7	52.1	9.7	56.0
26....	2046	25.0	300	369	6.4	24.6	---	7.1	---	---	---
26....	2048	10.0	300	369	6.4	24.6	---	7.0	---	---	---
26....	2049	4.0	300	368	6.3	24.6	---	7.0	---	---	---

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

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION, FT FM BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLDR- PHYLLA METRIC CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLDR- PHYLLA FLOURO- METRIC METHOD (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG	2050	1.0	300	368	6.3	24.5	--	6.9	--	--	--
26...	2051	35.0	1000	369	6.2	24.4	--	6.0	43.3	43.8	63.9
26...	2052	30.0	1000	369	6.2	24.5	--	6.1	44.5	20.1	53.6
26...	2053	20.0	1000	367	6.2	24.5	--	6.4	43.4	13.3	49.2
26...	2055	10.0	1000	367	6.2	24.6	--	6.5	41.7	13.9	47.8
26...	2057	4.0	1000	367	6.2	24.6	--	6.6	40.8	14.7	47.3
26...	2058	1.0	1000	369	6.3	24.5	--	6.9	41.9	14.0	48.1
26...	2059	--	1000	--	--	--	--	--	43.0	19.8	52.5
26...	2100	--	50000	--	--	--	--	--	51.1	10.4	55.4
26...	2110	5.0	2400	382	6.7	24.5	--	8.0	--	--	--
26...	2111	1.0	2400	383	6.7	24.5	--	7.7	--	--	--
26...	2112	--	2400	--	--	--	--	--	63.9	8.9	67.2
SEP	0826	38.0	1000	422	6.8	23.7	26.0	3.9	31.3	23.7	42.4
10...	0827	32.0	1000	422	6.8	23.8	--	3.9	32.1	23.7	43.2
10...	0828	26.0	1000	423	6.8	23.8	--	3.9	30.3	22.7	40.9
10...	0829	19.0	1000	423	6.8	23.8	--	3.9	31.1	23.2	41.9
10...	0830	13.0	1000	423	6.8	23.8	--	3.9	31.5	24.1	42.8
10...	0831	6.0	1000	423	6.8	23.8	--	3.9	33.1	20.9	42.8
10...	0832	1.6	1000	423	6.8	23.8	--	4.1	32.2	16.2	39.6
16...	1014	--	2400	--	--	--	--	--	34.8	22.0	45.0
16...	1015	3.0	2400	434	6.3	24.1	--	5.8	--	--	--
16...	1022	38.0	1000	432	6.2	24.6	22.0	5.3	27.4	22.2	37.7
16...	1024	30.0	1000	432	6.2	24.6	--	5.2	26.2	19.6	35.4
16...	1026	20.0	1000	432	6.2	24.7	--	5.2	25.8	19.1	34.7
16...	1028	9.0	1000	431	6.1	24.7	--	5.1	23.7	19.2	32.7
16...	1030	3.0	1000	432	6.1	24.7	--	5.1	25.4	17.2	33.4
22...	0910	35.0	1000	469	7.3	21.3	23.0	6.4	23.6	25.8	35.8
22...	0911	29.0	1000	469	7.3	21.3	--	6.4	27.6	22.3	38.0
22...	0912	19.0	1000	469	7.3	21.4	--	6.4	22.2	18.2	30.7
22...	0913	13.0	1000	469	7.3	21.4	--	6.4	22.8	17.2	30.9
22...	0915	6.0	1000	469	7.3	21.4	--	6.5	23.6	14.3	30.2
22...	0917	1.6	1000	470	7.3	21.4	--	6.5	25.6	12.4	31.2

APPENDIX A-2

384136077054500 - POTOMAC RIVER AT MARSHALL HALL

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLI A FLURO- METRIC CORR. (UG/L)	PHEOPHY -TIN A FLURO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
OCT	1600	--	690	--	--	22.4	24.0	--	23.2	18.0	31.6
02...	1605	19.0	690	364	6.4	22.4	--	4.5	--	--	--
02...	1606	10.0	690	366	6.4	22.4	--	5.1	--	--	--
02...	1608	5.0	690	366	6.5	22.5	--	5.5	--	--	--
02...	1609	1.0	690	358	6.5	22.9	--	6.4	--	--	--
02...	1615	23.0	2490	360	6.4	22.5	23.0	4.6	15.0	14.4	21.8
02...	1616	12.0	2490	361	6.4	22.5	--	4.9	16.4	14.5	23.2
02...	1618	6.0	2490	364	6.5	22.7	--	6.0	30.0	15.2	36.9
02...	1619	1.0	2490	364	6.6	22.7	--	6.4	36.4	13.8	42.5
02...	1620	--	50000	--	--	--	--	--	23.3	14.6	30.0
02...	1630	13.0	3500	357	6.4	22.6	26.0	4.6	--	--	--
02...	1632	1.0	3500	356	6.5	22.8	--	5.3	17.8	9.7	22.2
02...	1634	--	3500	--	--	--	--	--	11.8	10.4	16.7
03...	0935	--	3500	--	--	--	--	--	--	--	--
03...	0940	11.0	3500	361	6.0	20.6	25.0	4.8	--	--	--
03...	0942	1.0	3500	358	6.1	20.7	--	4.9	--	--	--
03...	0945	21.0	2490	368	6.1	21.1	28.0	4.7	10.8	15.8	18.3
03...	0947	12.0	2490	368	6.2	21.1	--	4.9	10.9	12.0	16.6
03...	0949	6.0	2490	368	6.1	21.0	--	4.8	10.2	11.9	15.8
03...	0951	1.0	2490	368	6.2	21.7	--	4.9	11.0	11.7	16.6
03...	1010	14.0	690	358	6.0	20.9	28.0	4.7	--	--	--
03...	1012	1.0	690	359	6.0	20.9	--	4.7	--	--	--
03...	1013	--	690	--	--	--	--	--	12.9	11.6	18.3
03...	1015	--	50000	--	--	--	--	--	12.9	11.0	18.1
21...	1040	16.0	690	415	6.7	17.1	30.0	7.1	--	--	--
21...	1042	1.0	690	416	6.7	17.1	--	7.1	--	--	--
21...	1045	--	690	--	--	--	--	--	17.1	12.8	23.0
21...	1050	23.0	2490	419	6.7	17.3	24.0	7.0	16.9	17.0	24.9
21...	1052	13.0	2490	420	6.7	17.3	--	7.0	17.4	10.4	22.2
21...	1054	6.0	2490	421	6.7	17.3	--	7.0	16.9	10.2	21.6
21...	1056	1.0	2490	422	6.8	17.3	--	7.1	15.0	10.6	19.9
21...	1100	--	50000	--	--	--	--	--	17.4	10.6	22.4
21...	1102	7.0	3500	417	6.8	16.8	30.0	7.5	--	--	--
21...	1104	1.0	3500	419	6.8	16.9	--	7.5	--	--	--
21...	1110	--	3500	--	--	--	--	--	17.1	7.9	20.7
NOV	1210	--	3500	--	--	--	--	--	9.5	12.8	15.5
18...	1215	17.0	3500	495	7.7	8.7	28.0	9.8	--	--	--
18...	1217	2.0	3500	495	7.7	8.7	--	9.8	--	--	--
18...	1220	23.0	2490	493	7.7	8.8	28.0	9.8	8.8	9.6	13.4

384136077054500 - POTOMAC RIVER AT MARSHALL HALL ---CONT.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- SECTION (FT FM L BANK)	SPE- CTIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
NOV											
18...	1222	12.0	2490	493	7.7	8.8	--	9.7	9.1	9.3	13.5
18...	1224	2.0	2490	494	7.7	8.7	--	9.8	8.6	9.4	13.0
18...	1230	--	50000	--	--	--	--	--	9.1	10.1	13.9
18...	1231	15.0	690	516	7.7	8.6	28.0	10.2	--	--	--
18...	1233	2.0	690	518	7.7	8.6	--	10.0	--	--	--
18...	1235	--	690	--	--	--	--	--	8.1	11.0	13.4
DEC											
16...	1255	--	690	--	--	--	--	--	4.0	8.2	8.0
16...	1300	11.0	690	352	7.8	5.2	23.0	10.7	--	--	--
16...	1302	1.0	690	351	7.7	5.0	--	10.8	--	--	--
16...	1310	23.0	2490	370	7.7	5.4	18.0	10.7	12.3	27.0	25.2
16...	1312	19.0	2490	371	7.7	5.4	--	10.8	9.8	22.5	20.5
16...	1314	12.0	2490	373	7.7	5.4	--	10.8	11.0	15.2	18.2
16...	1316	6.0	2490	375	7.7	5.4	--	10.8	10.1	12.7	16.1
16...	1318	1.0	2490	376	7.7	5.4	--	10.8	9.2	9.9	13.9
16...	1319	--	2490	--	--	--	--	--	10.0	16.0	17.6
16...	1320	--	50000	--	--	--	--	--	8.4	13.3	14.7
16...	1322	10.0	3500	368	7.7	5.3	18.0	10.8	--	--	--
16...	1324	1.0	3500	369	7.7	5.4	--	10.8	--	--	--
16...	1330	--	3500	--	--	--	--	--	7.2	15.0	14.3
FEB											
03...	1510	20.0	2300	910	8.0	2.1	--	12.5	--	--	--
03...	1512	10.0	2300	620	8.0	2.9	--	11.8	--	--	--
03...	1514	3.0	2300	576	8.1	3.0	--	11.8	--	--	--
04...	1105	23.0	2300	644	8.1	2.3	36.0	13.8	12.0	10.1	16.7
04...	1107	18.0	2300	643	8.1	2.2	--	12.4	11.7	6.6	14.8
04...	1109	12.0	2300	644	8.1	2.2	--	12.6	10.4	7.0	13.7
04...	1111	2.0	2300	640	8.1	2.2	--	12.5	10.1	5.5	12.6
04...	1115	--	2300	--	--	--	--	--	11.5	9.5	15.9
MAR											
04...	0840	--	2300	--	--	--	--	--	4.4	6.4	7.5
04...	0845	23.0	2300	198	7.6	7.1	16.0	11.4	6.4	10.6	11.5
04...	0847	12.0	2300	198	7.6	7.2	--	11.3	5.4	8.2	9.3
04...	0849	2.0	2300	198	7.6	7.2	--	11.3	2.9	4.7	5.1
04...	0800	3.0	2300	344	7.6	5.8	--	10.0	3.2	4.3	5.2
04...	1200	3.0	2300	290	7.6	5.7	--	10.3	8.3	5.8	11.0
APR											
01...	1605	--	2300	--	--	--	--	--	7.5	9.6	12.0
15...	0910	21.0	2300	278	7.4	14.0	11.0	9.1	63.6	112	117
15...	0912	12.0	2300	278	7.4	14.0	--	9.2	46.3	34.9	62.6

384136077054600 - POTOMAC RIVER AT MARSHALL HALL ---CONT.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPY -TIN A FLURO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLOURO- METRIC METHOD (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
APR 15...	0914	2.0	2300	278	7.5	14.0	--	9.3	41.7	28.5	54.9
15...	0915	--	2300	--	--	--	--	--	44.9	57.0	71.9
29...	1135	--	50000	*	--	--	--	--	11.4	14.2	16.3
MAY 19...	0940	26.0	2300	250	7.1	18.5	36.0	6.4	12.0	10.1	16.8
19...	0942	18.0	2300	260	7.1	18.5	--	6.3	13.2	8.9	17.3
19...	0943	10.0	2300	261	7.1	18.5	--	6.3	10.1	9.6	14.6
19...	0945	2.0	2300	251	7.1	18.5	--	6.2	10.4	8.6	14.4
JUN 24...	1140	--	2300	--	--	--	--	--	11.1	8.4	15.0
30...	1142	20.0	2300	240	6.5	26.7	--	5.3	16.6	21.8	26.9
30...	1144	15.0	2300	240	6.5	26.6	--	5.3	13.1	10.4	18.0
30...	1146	7.0	2300	241	6.5	26.7	--	5.3	14.8	8.1	18.5
30...	1148	2.0	2300	241	6.5	27.0	--	5.5	14.8	5.0	17.0
JUL 1820	1820	--	3500	--	--	--	--	--	14.2	7.0	17.4
08...	1825	15.0	3500	254	6.6	27.3	24.0	5.2	--	--	--
08...	1827	7.0	3500	254	6.6	27.4	--	5.5	--	--	--
08...	1829	2.0	3500	254	6.7	28.1	--	6.4	--	--	--
08...	1830	--	50000	--	--	--	--	--	14.4	8.4	18.3
08...	1831	22.0	2490	255	6.6	27.0	26.0	5.0	15.4	19.6	24.7
08...	1832	18.0	2490	255	6.6	27.0	--	5.0	15.0	15.2	22.2
08...	1834	12.0	2490	255	6.6	27.1	--	5.1	13.0	10.1	17.7
08...	1836	7.0	2490	254	6.5	27.1	--	5.2	14.1	6.6	17.1
08...	1838	2.0	2490	254	6.7	27.5	--	6.1	14.7	7.7	18.2
08...	1840	--	2490	--	--	--	--	--	14.0	12.0	20.0
08...	1842	10.0	690	256	6.6	26.9	32.0	4.5	--	--	--
08...	1844	5.0	690	256	6.5	26.9	--	4.4	--	--	--
08...	1846	4.0	690	257	6.6	27.3	--	5.0	--	--	--
08...	1848	3.0	690	256	6.7	28.0	--	6.1	--	--	--
08...	1850	2.0	690	256	6.7	28.1	--	6.1	--	--	--
08...	1855	--	690	--	--	--	--	--	10.5	6.8	13.7
15...	0945	3.0	2300	295	7.2	29.3	--	5.7	14.5	6.1	17.3
20...	0720	--	690	--	--	--	--	--	25.2	19.6	34.3
20...	0725	--	50000	--	--	--	--	--	24.3	16.6	32.0
20...	0727	11.0	690	249	6.5	28.2	20.0	5.2	--	--	--
20...	0729	6.0	690	249	6.5	28.2	--	5.1	--	--	--
20...	0731	1.0	690	248	6.5	28.2	--	5.3	--	--	--
20...	0735	24.0	2490	275	6.5	28.5	--	5.0	28.3	31.8	43.3
20...	0737	18.0	2490	276	6.5	28.5	--	5.0	24.7	18.9	33.5

384136077054600 - POTOMAC RIVER AT MARSHALL HALL --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	(000003)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	(000009)	SPE- CIFIC CON- DUCT- ANCE (UMHDS)	(000095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCI DISK) (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)	(32217)
JUL 20...	0739	12.0		2490		276		6.5		28.5				5.1		24.0		15.6		31.2	
20...	0741	7.0		2490		276		6.5		28.5				5.1		23.6		14.5		30.3	
20...	0742	1.0		2490		277		6.5		28.5				5.1		22.8		11.2		27.9	
20...	0745			2490												23.3		15.6		30.6	
20...	0750	13.0		3500		276		6.6		28.4				5.1							
20...	0752	6.0		3500		278		6.6		28.4				5.1							
20...	0754	1.0		3500		278		6.6		28.4				5.2							
20...	0800			3500												25.5		15.1		32.4	
20...	1735	13.0		690		291		6.6		28.8		32.0		4.8							
20...	1737	1.0		690		284		6.7		29.1				5.8							
20...	1745			50000												28.8		7.0		31.8	
20...	1747	22.0		2490		296		6.8		29.1				6.0							
20...	1749	18.0		2490		294		6.8		29.2				6.2		31.3		7.6		34.6	
20...	1751	12.0		2490		286		6.8		29.3				6.4		26.9		4.5		28.7	
20...	1753	7.0		2490		286		6.7		29.3				6.2		28.9		4.7		30.8	
20...	1754	5.0		2490		290		6.8		29.2				6.3							
20...	1755	1.0		2490		285		6.8		29.3				6.4		31.8		5.3		33.9	
20...	1756			2490												32.3		5.6		34.5	
20...	1757	15.0		3500		288		6.8		29.3		30.0		6.5							
20...	1759	10.0		3500		291		6.8		29.2				6.2							
20...	1801	8.0		3500		278		7.4		29.6				9.0							
20...	1803	5.0		3500		278		7.2		29.5				8.6							
20...	1805	1.0		3500		280		7.1		29.5				8.5							
20...	1810			3500												32.2		6.0		34.6	
21...	0925			690												25.6		13.9		31.9	
21...	0930	16.0		690		244		6.6		28.5		19.0		5.4							
21...	0931	1.0		690		238		6.6		28.6				5.7							
21...	0933			2490												24.2		14.2		30.7	
21...	0934	23.0		2490		265		6.6		28.7		20.0				24.6		33.8		40.6	
21...	0935	18.0		2490		266		6.6		28.7				5.1		24.8		13.8		31.2	
21...	0937	12.0		2490		266		6.6		28.7				5.2		23.1		12.9		29.1	
21...	0938	6.0		2490		266		6.6		28.7				5.2		23.3		10.9		28.2	
21...	0939	1.0		2490		266		6.6		28.8				5.3		23.1		9.7		27.5	
21...	0940			50000												24.8		14.9		31.6	
21...	0945	14.0		3500		277		6.6		28.8		24.0		5.0							
21...	0946	1.0		3500		277		6.6		28.8				5.0							
21...	0950			3500												21.0		13.3		27.2	
21...	1725			690												26.6		7.8		30.0	
21...	1730	17.0		690		288		6.4		29.2		32.0		4.9							

384136077054600 - POTOMAC RIVER AT MARSHALL HALL --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LINS DEPTH (FT)	(000003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(000009)	SPE- CIFIC CON- DUCT- ANCE (JMHS)	(000095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (JG/L)	(32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)	(32217)
JUL																				
21...	1731	9.0		690		287		6.5		29.2			5.3							
21...	1732	1.0		690		282		6.6		29.4			6.1		34.1		13.7		40.3	
21...	1739			2490								32.0					23.7		46.0	
21...	1740	23.0		2490		295		6.5		29.2			5.3		35.0		9.5		43.4	
21...	1741	18.0		2490		296		6.6		29.2			5.4		39.3		10.4		40.9	
21...	1742	12.0		2490		296		6.6		29.2			5.7		36.4		9.2		44.1	
21...	1743	7.0		2490		297		6.6		29.3			5.9		40.2		8.6		42.3	
21...	1744	1.0		2490		297		6.7		29.4			6.3		39.3		9.2		34.0	
21...	1745			50000											30.0					
21...	1750	16.0		3500		293		6.5		29.3		29.0	5.2							
21...	1752	14.0		3500		295		6.6		29.3			5.4							
21...	1753	10.0		3500		294		6.6		29.3			5.8							
21...	1755	8.0		3500		289		6.6		29.5			6.2							
21...	1757	1.0		3500		293		6.7		29.5			6.4							
21...	1800			3500											31.7		8.7		35.5	
22...	0655			690											21.7		8.5		25.5	
22...	0700	9.0		690		278		6.7		27.8		38.0	5.4							
22...	0701	5.0		690		278		6.7		28.0			5.5							
22...	0702	1.0		690		288		6.7		28.4			5.5							
22...	0704			2490																
22...	0705	22.0		2490		296		6.7		28.9		25.0			29.0		11.3		34.1	
22...	0707	18.0		2490		296		6.7		28.8			5.1		26.2		14.3		32.8	
22...	0709	12.0		2490		296		6.7		28.8			5.2		26.7		14.3		33.3	
22...	0711	7.0		2490		296		6.7		28.8			5.2		28.3		10.6		33.1	
22...	0713	1.0		2490		296		6.7		28.8			5.2		30.0		11.2		35.0	
22...	0715			50000											27.0		9.5		31.2	
22...	0720	19.0		3500		289		6.6		28.6		30.0	4.8		25.7		9.2		29.8	
22...	0721	10.0		3500		293		6.7		28.7			5.1							
22...	0722	1.0		3500		296		6.7		28.7			5.2							
22...	0725			3500																
28...	1100			2300											24.0		11.0		29.0	
28...	1102	20.0		2300		307		7.1		27.6		26.0			33.2		17.8		41.4	
28...	1104	13.0		2300		307		7.1		27.6			5.2		31.6		24.3		42.9	
28...	1106	6.0		2300		307		7.1		27.6			5.2		35.0		20.5		44.4	
28...	1108	1.6		2300		307		7.1		27.6			5.2		31.6		15.3		38.6	
AUG															33.6		10.3		38.1	
06...	1505	13.0		690		274		6.5		27.2		24.0	4.3							
06...	1507	1.0		690		277		6.5		27.2			4.3							
06...	1515			50000											31.0		14.0		37.5	
06...	1517	21.0		2490		286		6.5		27.6		24.0	4.2		25.5		21.9		35.8	

384136077054600 - POTOMAC RIVER AT MARSHALL HALL --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCTI- ANCE (JMHS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A METRIC CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD (UG/L)
AUG 06...	1519	16.0	2490	286	6.5	27.5	--	4.2	26.1	17.3	34.1
06...	1520	10.0	2490	287	6.5	27.5	--	4.2	27.5	13.7	33.8
06...	1522	5.0	2490	290	6.5	24.5	--	4.4	27.7	12.6	33.4
06...	1523	1.0	2490	291	6.6	27.5	--	4.4	28.3	12.3	33.9
06...	1524	--	2490	--	--	--	--	--	26.0	15.2	33.0
06...	1525	14.0	3500	308	6.8	27.4	15.0	5.4	--	--	--
06...	1527	7.0	3500	309	6.8	27.4	--	5.5	--	--	--
06...	1529	1.0	3500	309	6.8	27.3	--	5.5	--	--	--
06...	1530	--	3500	--	--	--	--	--	44.8	13.2	50.5
18...	1105	--	3500	--	--	--	--	--	57.6	15.0	64.1
18...	1110	10.0	3500	336	7.3	26.6	23.0	6.1	--	--	--
18...	1111	1.5	3500	335	7.3	27.0	--	6.4	--	--	--
18...	1140	13.0	690	311	7.0	26.4	24.0	5.5	--	--	--
18...	1141	7.0	690	312	7.0	26.5	--	5.5	--	--	--
18...	1142	5.0	690	316	7.0	26.5	--	5.8	--	--	--
18...	1143	1.5	690	332	7.4	26.8	--	7.5	--	--	--
18...	1144	--	690	--	--	--	--	--	53.4	14.0	59.4
18...	1145	--	2490	--	--	--	--	--	64.0	23.3	74.4
18...	1150	20.0	2490	341	7.2	26.5	24.0	6.0	--	--	--
18...	1152	13.0	2490	341	7.3	26.6	--	6.2	65.3	17.1	72.7
18...	1154	7.0	2490	341	7.3	26.5	--	6.2	59.6	20.8	68.8
18...	1155	5.0	2490	338	7.5	26.7	--	7.4	72.2	13.5	77.8
18...	1157	1.5	2490	338	7.8	27.0	--	8.2	82.1	11.4	86.4
18...	1200	--	50000	--	--	--	--	--	58.9	16.9	66.3
24...	1835	--	690	--	--	--	--	--	27.4	17.2	35.4
24...	1840	16.0	690	355	5.8	24.5	--	5.5	--	--	--
24...	1842	10.0	690	355	5.8	24.5	--	5.4	--	--	--
24...	1844	4.0	690	353	5.8	24.6	--	6.1	--	--	--
24...	1846	1.0	690	354	5.8	24.5	--	5.5	--	--	--
24...	1849	--	2490	--	--	--	--	--	35.6	17.7	43.7
24...	1850	24.0	2490	357	5.9	24.4	20.0	5.5	31.8	29.9	45.9
24...	1852	10.0	2490	350	5.9	24.6	--	6.0	37.3	10.8	42.0
24...	1854	4.0	2490	369	6.1	24.8	--	7.3	37.3	10.8	42.0
24...	1856	1.0	2490	369	6.1	24.9	--	7.4	40.3	12.6	45.8
24...	1900	--	50000	--	--	--	--	--	35.6	17.3	43.5
24...	1902	17.0	3500	356	6.3	25.0	19.0	7.8	--	--	--
24...	1904	10.0	3500	356	6.4	25.0	--	7.9	--	--	--
24...	1906	4.0	3500	356	6.4	25.0	--	8.0	--	--	--
24...	1908	1.0	3500	356	6.5	25.0	--	8.1	--	--	--

384136077054600 - POTOMAC RIVER AT MARSHALL HALL --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOCATION	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLLIA METRIC METHOD CORR. (JG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD (UG/L) (32217)
24....	1910	---	3500	---	---	---	---	---	51.2	11.4	56.0
25....	0725	---	690	---	---	---	---	---	27.3	18.4	35.8
25....	0730	13.0	690	356	6.7	24.1	26.0	5.5	---	---	---
25....	0732	7.0	690	356	6.7	24.1	---	5.4	---	---	---
25....	0734	1.0	690	356	6.7	24.1	---	5.5	---	---	---
25....	0740	22.0	2490	358	6.7	24.1	24.0	5.5	33.2	27.6	46.0
25....	0742	10.0	2490	357	6.7	24.1	---	5.4	30.2	20.0	39.4
25....	0744	4.0	2490	357	6.7	24.1	---	5.4	28.4	12.4	34.0
25....	0746	1.0	2490	356	6.7	24.1	---	5.5	27.6	16.3	35.1
25....	0748	---	2490	---	---	---	---	---	29.8	20.9	39.5
25....	0750	---	50000	---	---	---	---	---	30.0	20.7	39.6
25....	0751	13.0	3500	358	6.7	24.1	18.0	5.5	---	---	---
25....	0752	3.0	3500	357	6.7	24.1	---	5.5	---	---	---
25....	0754	1.0	3500	357	6.7	24.0	---	5.5	---	---	---
25....	0800	---	3500	---	---	---	---	---	29.8	20.0	39.0
25....	2125	---	690	---	---	---	---	---	34.5	18.5	42.9
25....	2130	17.0	690	359	6.7	24.2	---	6.0	---	---	---
25....	2131	10.0	690	360	6.8	24.3	---	6.0	---	---	---
25....	2133	4.0	690	361	6.8	24.3	---	6.2	---	---	---
25....	2134	1.0	690	360	6.8	24.3	---	6.2	---	---	---
25....	2135	23.0	2490	365	6.9	24.3	---	6.3	40.0	17.6	47.9
25....	2137	10.0	2490	365	6.9	24.3	---	6.3	45.8	12.6	51.3
25....	2139	4.0	2490	363	6.8	24.3	---	6.4	41.6	15.2	48.4
25....	2141	1.0	2490	360	6.8	24.3	---	6.3	38.8	13.4	44.7
25....	2143	---	2490	---	---	---	---	---	38.3	19.9	47.4
25....	2145	---	50000	---	---	---	---	---	45.0	15.6	51.9
25....	2200	12.0	3500	365	7.0	24.3	---	6.9	---	---	---
25....	2202	4.0	3500	364	7.6	24.6	---	8.7	---	---	---
25....	2204	1.0	3500	363	7.7	24.5	---	8.2	---	---	---
25....	2210	---	3500	---	---	---	---	---	70.6	12.4	75.6
26....	0725	---	690	---	---	---	---	---	31.0	22.1	41.3
26....	0730	17.0	690	424	6.5	23.7	16.0	5.6	---	---	---
26....	0732	1.0	690	406	6.5	23.7	---	5.4	---	---	---
26....	0740	---	2490	---	---	---	---	---	52.1	17.8	60.0
26....	0745	20.0	2490	493	6.8	23.9	17.0	6.7	48.3	24.3	59.4
26....	0747	10.0	2490	494	6.8	23.9	---	6.8	48.3	21.8	58.1
26....	0749	4.0	2490	494	6.9	23.9	---	6.7	47.0	21.2	56.6
26....	0750	1.0	2490	493	6.9	24.0	---	6.8	51.2	14.6	57.6
26....	0755	14.0	3500	360	6.7	23.7	17.0	5.5	---	---	---

--Cont.

384136077054600 - POTOMAC RIVER AT MARSHALL HALL

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LJC- ATION, CRDSS SECTION (FT FM L BANK)	(00009)	SPEH CIFIC CON- DUCT- ANCE (UMHDS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECHI DISK) (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLDRO- PHYLLA FLURO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY -TIN A METRIC METHOD (UG/L)	(32213)	CHLDRO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)	(32217)
AUG 26...	0757	1.0	3500		360		6.7		23.7				5.7							
26...	0800	--	3500		--		--		--				--		34.5		19.1		43.2	
26...	0815	--	50000		--		--		--				--		38.8		20.8		48.3	
26...	1945	--	3500		--		--		--				--		58.0		12.9		63.4	
26...	1950	17.0	3500		454		6.6		24.8				8.2		--		--		--	
26...	1952	10.0	3500		446		6.6		24.9				8.1		--		--		--	
26...	1954	4.0	3500		441		6.6		24.9				8.2		--		--		--	
26...	1956	1.0	3500		436		6.5		24.9				8.0		--		--		--	
26...	2005	26.0	2490		496		6.5		24.7				7.8		53.5		15.7		60.4	
26...	2007	10.0	2490		502		6.5		24.7				8.0		52.5		15.9		59.5	
26...	2009	4.0	2490		504		6.5		24.7				8.0		49.0		13.8		55.0	
26...	2011	1.0	2490		503		6.5		24.7				8.0		52.2		14.0		58.3	
26...	2013	--	2490		--		--		--				--		53.0		15.4		59.7	
26...	2015	--	50000		--		--		--				--		52.2		14.2		58.4	
26...	2017	19.0	690		495		6.1		24.5				6.3		--		--		--	
26...	2018	10.0	690		486		6.1		24.5				6.3		--		--		--	
26...	2020	4.0	690		443		6.0		24.5				6.2		--		--		--	
26...	2022	1.0	690		450		6.0		24.5				6.1		--		--		--	
26...	2025	--	690		--		--		--				--		39.6		21.0		49.2	
SEP 10...	0855	--	2300		--		--		--				--		27.7		18.1		36.1	
16...	0940	3.0	2300		634		6.3		24.2				6.0		--		--		--	
16...	0945	--	2300		--		--		--				--		22.6		20.6		32.3	
22...	0855	19.0	2300		454		7.2		21.5		22.0		6.2		20.4		30.2		34.8	
22...	0857	13.0	2300		454		7.2		21.5				6.2		16.8		23.3		27.9	
22...	0859	6.0	2300		454		7.2		21.5				6.2		18.5		16.6		26.2	
22...	0900	1.6	2300		454		7.2		21.6				6.2		19.0		14.6		25.8	

APPENDIX A-2

383818977072800 - POTOMAC RIVER AT HALLOWING POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LINES DEPTH (FT)	(000003)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	(000009)	SPE- CIFIC CON- DUCT- ANCE (JMHDS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCI DISK) (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (JG/L)	(32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
OCT 02...	1650	25.0		4140		420		6.5		22.1		23.0		5.1							
02...	1652	11.0		4140		427		6.6		22.2				5.3							
02...	1654	6.0		4140		442		6.9		22.3				6.6							
02...	1656	1.0		4140		441		7.1		22.4				7.3							
02...	1657			4140												37.6		19.7		46.6	
02...	1700	36.0		3480		434		6.4		22.2		19.0		5.3		33.3	24.5	19.8	44.7		
02...	1702	17.0		3480		440		6.7		22.4				6.3		41.4	19.8	19.8	50.4		
02...	1704	10.0		3480		449		6.8		22.5				6.9		40.3	19.8	19.8	49.4		
02...	1706	6.0		3480		452		6.8		22.5				6.9		42.7	20.3	20.3	51.9		
02...	1708	1.0		3480		450		6.8		22.5				7.1		42.4	20.4	20.4	51.7		
02...	1710			50000												38.3	20.3	20.3	47.6		
02...	1715	20.0		2940		394		6.5		22.4		22.0		5.8							
02...	1717	12.0		2940		390		6.5		22.4				5.9							
02...	1718	1.0		2940		379		6.6		22.5				6.5							
02...	1719			2940														17.2		40.7	
02...	1725	8.0		1710		380		6.5		22.5		19.0		6.1							
02...	1726	1.0		1710		380		6.6		22.5				6.5							
02...	1727			1710														17.2		44.6	
03...	0840	20.0		4140		401		6.1		20.6		25.0		6.0							
03...	0842	11.0		4140		402		6.1		20.8				6.1							
03...	0844	1.0		4140		401		6.2		20.8				6.1							
03...	0845			4140																	
03...	0850	34.0		3480		415		6.1		20.9		19.0		6.1		29.7	29.6	29.6	43.6		
03...	0852	17.0		3480		410		6.1		20.9				6.0		38.4	35.1	35.1	54.9		
03...	0854	6.0		3480		396		6.1		20.9				6.0		35.1	22.5	22.5	45.5		
03...	0856	1.0		3480		390		6.1		20.9				6.0		34.5	21.9	21.9	44.7		
03...	0900	24.0		2940		356		6.0		20.8		19.0		6.1		35.9	18.7	18.7	44.5		
03...	0902	12.0		2940		355		6.0		20.8				6.1							
03...	0904	1.0		2940		353		6.1		20.7				6.3							
03...	0905			2940														18.2		41.7	
03...	0915	7.0		1710		358		6.1		20.5		19.0		6.6							
03...	0916	1.0		1710		357		6.2		20.6				7.0							
03...	0917			1710																	
03...	0920			50000																	
21...	1125	5.0		1710		444		7.2		17.0		18.0		9.6				20.0	52.8		
21...	1126	1.0		1710		445		7.3		16.8				9.7		41.7	21.0	21.0	51.2		
21...	1127			1710																	
21...	1139			2940														17.1	63.8		
21...	1140	23.0		2940		440		6.9		16.9		24.0		8.7		56.2	18.7	18.7	55.2		

383818077072800 - POTOMAC RIVER AT HALLOWING POINT --Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMP- SECTION (FT FM L BANK)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPY -TIN A FLURO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD (UG/L)
		(00003)	(00009)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)	(32217)
OCT											
21...	1142	12.0	2940	7.0	16.8	--	9.1	--	--	--	--
21...	1144	1.0	2940	7.0	17.0	--	8.9	--	--	--	--
21...	1145	33.0	3480	6.9	17.0	18.0	8.2	40.4	20.3	49.6	49.6
21...	1147	17.0	3490	6.8	17.0	--	8.4	48.0	14.8	54.5	54.5
21...	1149	6.0	3490	6.8	17.0	--	8.4	40.4	16.7	47.9	47.9
21...	1151	1.0	3480	6.8	17.0	--	8.4	40.4	17.9	48.5	48.5
21...	1155	--	50000	--	--	--	--	42.7	17.1	50.3	50.3
21...	1156	--	4140	--	--	--	--	34.2	18.9	42.9	42.9
21...	1157	13.0	4140	6.9	17.0	22.0	8.3	--	--	--	--
21...	1158	1.0	4140	6.9	17.0	--	8.5	--	--	--	--
NOV											
18...	1115	26.0	4140	7.7	8.4	28.0	10.2	--	--	--	--
18...	1116	11.0	4140	7.6	8.4	--	10.3	--	--	--	--
18...	1117	2.0	4140	7.7	8.4	--	10.2	--	--	--	--
18...	1118	--	4140	--	--	--	--	19.6	10.7	24.5	24.5
18...	1125	33.0	3490	7.5	8.7	29.0	9.8	24.6	14.0	31.1	31.1
18...	1127	17.0	3480	7.6	8.5	--	10.2	23.0	11.9	28.5	28.5
18...	1129	2.0	3480	7.6	8.5	--	10.2	17.6	8.8	21.7	21.7
18...	1135	--	50000	--	--	--	--	18.0	11.0	23.1	23.1
18...	1137	23.0	2940	7.6	8.5	28.0	10.2	--	--	--	--
18...	1139	12.0	2940	7.6	8.6	--	10.1	--	--	--	--
18...	1141	2.0	2940	7.6	8.5	--	10.2	--	--	--	--
18...	1142	--	2940	--	--	--	--	19.4	10.9	24.4	24.4
18...	1145	9.0	1710	7.8	7.9	28.0	10.7	--	--	--	--
18...	1147	2.0	1710	7.8	7.9	--	10.6	--	--	--	--
18...	1148	--	1710	--	--	--	--	14.5	10.4	19.3	19.3
DEC											
16...	1214	--	4140	--	--	--	--	22.1	15.3	29.2	29.2
16...	1215	29.0	4140	8.0	4.9	20.0	11.8	--	--	--	--
16...	1217	11.0	4140	7.9	5.0	--	11.5	--	--	--	--
16...	1219	1.0	4140	7.9	5.0	--	11.5	--	--	--	--
16...	1220	34.0	3430	7.8	5.2	18.0	11.2	22.1	29.8	36.2	36.2
16...	1222	25.0	3480	7.8	5.2	--	11.2	18.7	18.6	27.4	27.4
16...	1224	17.0	3480	7.8	5.2	--	11.2	17.9	17.5	26.1	26.1
16...	1226	8.0	3480	7.8	5.2	--	11.2	17.3	13.6	23.7	23.7
16...	1228	1.0	3480	7.8	5.2	--	11.3	16.6	13.0	22.6	22.6
16...	1229	--	3480	--	--	--	--	19.2	18.6	28.0	28.0
16...	1230	--	50000	--	--	--	--	19.4	15.0	26.4	26.4
16...	1239	--	2940	--	--	--	--	18.8	14.9	25.7	25.7
16...	1240	27.0	2940	7.8	5.3	19.0	11.1	--	--	--	--

APPENDIX A-2
 383818077072800 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLOURO- METRIC METHOD UNCORR. (UG/L)
DEC											
16...	1242	12.0	2940	551	7.8	5.2	--	11.2	--	--	--
16...	1244	1.0	2940	556	7.8	5.2	--	11.3	--	--	--
16...	1245	9.0	1710	493	7.8	5.2	17.0	11.1	--	--	--
16...	1247	1.0	1710	493	7.8	5.2	--	11.1	--	--	--
16...	1248	--	1710	--	--	--	--	--	16.7	15.4	23.9
FER											
03...	1445	30.0	4020	3200	7.9	1.1	--	12.5	--	--	--
03...	1447	15.0	4020	2300	7.9	1.3	--	12.0	--	--	--
03...	1449	3.0	4020	1700	7.9	1.6	--	12.0	--	--	--
04...	1130	32.0	4020	2100	8.0	1.2	26.0	12.4	10.1	13.0	16.3
04...	1132	22.0	4020	1780	8.0	1.4	--	12.2	8.2	7.7	11.8
04...	1134	15.0	4020	1730	8.0	1.3	--	12.2	7.9	6.5	11.0
04...	1136	8.0	4020	1690	8.0	1.4	--	12.1	7.5	5.5	10.1
04...	1138	2.0	4020	1740	8.0	1.3	--	12.7	7.4	5.7	10.1
04...	1140	--	50000	--	--	--	--	--	7.4	7.0	10.6
VAR											
04...	0820	--	4020	--	--	--	--	--	3.5	7.5	7.1
04...	0822	37.0	4020	199	7.5	6.7	11.0	11.6	10.0	25.0	22.0
04...	0824	30.0	4020	198	7.5	6.9	--	11.2	6.6	15.6	14.2
04...	0826	15.0	4020	192	7.6	7.0	--	11.3	3.1	6.1	6.0
04...	0828	2.0	4020	192	7.6	7.0	--	11.3	3.0	5.2	5.0
14...	0815	3.0	4020	380	7.6	5.5	--	10.0	7.6	11.6	13.1
24...	1220	3.0	4020	300	7.5	5.6	--	10.7	4.0	7.7	7.7
APR											
01...	1550	--	4020	--	--	--	--	--	8.1	11.9	13.8
15...	0925	29.0	4020	289	7.5	14.7	10.0	8.4	53.9	79.1	91.5
15...	0927	22.0	4020	289	7.5	14.7	--	8.5	44.4	47.1	66.6
15...	0929	15.0	4020	289	7.5	14.7	--	8.4	42.1	38.1	60.0
15...	0931	2.0	4020	290	7.6	14.7	--	8.4	42.7	32.2	57.7
MAY											
19...	0955	35.0	4020	254	7.4	18.1	18.0	7.7	48.4	21.4	58.0
19...	0957	24.0	4020	256	7.3	18.2	--	7.3	35.6	21.8	45.6
19...	0959	18.0	4020	258	7.2	18.4	--	7.1	27.6	17.8	35.8
19...	1001	10.0	4020	258	7.2	18.6	--	6.8	18.1	13.9	24.6
19...	1003	2.0	4020	258	7.2	18.6	--	6.7	15.9	12.1	21.6
JUN											
09...	1220	--	1710	--	--	--	--	--	19.6	5.2	21.9
08...	1245	--	2940	--	--	--	--	--	21.1	7.0	24.2
08...	1255	--	4020	--	--	--	--	--	28.1	11.1	33.1
08...	1305	--	4450	--	--	--	--	--	33.5	10.9	38.3

393818077072900 - POTOMAC RIVER AT HALLOWING POINT ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMH05) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLLI A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)
JUN 24	1500	--	4020	--	--	--	--	--	16.6	6.80	19.7
30	1217	32.0	4020	222	6.5	26.8	17.0	6.0	--	--	--
30	1219	28.0	4020	224	6.5	26.9	--	6.0	--	--	--
30	1221	20.0	4020	223	6.5	27.0	--	6.2	--	--	--
30	1223	15.0	4020	221	6.6	27.1	--	6.5	--	--	--
30	1225	7.0	4020	220	6.6	27.2	--	6.8	--	--	--
30	1227	2.0	4020	219	6.7	27.3	--	7.0	--	--	--
30	1230	--	4020	--	--	--	--	--	25.5	13.8	31.6
JUL 06	1640	2.0	4020	237	5.8	26.1	15.0	5.3	21.7	6.9	24.7
06	1642	7.0	4020	236	5.8	26.1	--	5.1	21.4	6.4	24.2
06	1644	14.0	4020	236	5.8	26.0	--	4.9	21.4	7.3	24.6
05	1646	21.0	4020	234	5.7	25.9	--	4.8	21.2	10.8	26.1
05	1648	28.0	4020	234	5.7	25.9	--	4.8	20.9	13.3	27.0
06	1650	32.0	4020	234	5.7	25.8	--	4.8	19.6	15.5	26.9
06	1652	34.0	4020	233	5.7	25.9	--	4.9	20.8	20.4	30.4
06	1654	--	4020	--	--	--	--	--	19.2	8.50	23.1
06	1700	9.0	4450	220	5.8	26.2	19.0	6.3	--	--	--
06	1702	4.0	4450	222	5.9	26.2	--	6.4	--	--	--
06	1704	1.0	4450	223	5.9	26.4	--	7.0	--	--	--
06	1705	--	4450	--	--	--	--	--	32.5	8.70	36.2
08	1710	25.0	4140	242	6.7	26.9	19.0	5.0	--	--	--
08	1712	11.0	4140	242	6.6	27.0	--	5.5	--	--	--
08	1714	5.0	4140	245	6.8	27.8	--	6.6	--	--	--
08	1716	2.0	4140	244	7.0	28.4	--	8.2	--	--	--
08	1717	--	4140	--	--	--	--	--	23.2	10.7	28.1
08	1719	--	3480	--	--	--	--	--	21.4	8.5	25.2
08	1720	34.0	3490	241	6.5	27.0	23.0	5.0	19.8	19.6	29.0
08	1722	28.0	3480	242	6.5	27.1	--	5.1	21.4	13.7	27.7
08	1724	21.0	3480	242	6.6	27.6	--	5.9	22.0	10.6	26.8
08	1726	14.0	3480	243	6.7	27.8	--	6.4	28.5	8.6	32.2
08	1728	7.0	3480	244	6.7	27.9	--	6.5	30.0	6.7	32.8
08	1729	2.0	3490	246	6.7	28.1	--	6.7	26.2	5.3	28.4
08	1730	--	50000	--	--	--	--	--	26.9	11.1	31.9
08	1750	23.0	2940	241	6.6	27.2	18.0	5.3	--	--	--
08	1752	12.0	2940	243	6.6	27.9	--	5.8	--	--	--
08	1754	2.0	2940	243	6.6	28.1	--	6.2	--	--	--
08	1755	--	2940	--	--	--	--	--	24.6	10.0	29.1
08	1800	5.0	1710	230	6.6	28.1	24.0	6.4	--	--	--
08	1802	2.0	1710	231	6.6	28.1	--	6.5	--	--	--

APPENDIX A-2

383R18077072900 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	(00003)	SAMP- LINGS (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (JMH05)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCI DISK) (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
JUL 08...	1803	--	--	1710	--	--	--	--	--	--	--	--	--	--	25.7	8.8	7.3	28.8			
10...	1830	2.0	200	4020	200	6.8	28.8	24.0	8.8	63.3	11.3	11.3	8.0	63.3	63.3	63.3	63.3	63.3	63.3		
10...	1832	7.0	200	4020	200	6.4	28.7	--	8.0	60.6	8.3	8.3	6.7	60.6	60.6	60.6	60.6	60.6	60.6		
10...	1833	14.0	200	4020	200	6.1	28.5	--	6.7	46.9	6.4	6.4	5.6	46.9	46.9	46.9	46.9	46.9	46.9		
10...	1834	21.0	200	4020	200	5.9	28.5	--	5.6	25.8	9.1	9.1	5.5	25.8	25.8	25.8	25.8	25.8	25.8		
10...	1836	28.0	200	4020	200	5.9	28.2	--	5.5	26.5	9.1	9.1	5.4	26.5	26.5	26.5	26.5	26.5	26.5		
10...	1838	31.0	200	4020	200	5.9	28.2	--	5.4	25.0	11.0	11.0	4.4	25.0	25.0	25.0	25.0	25.0	25.0		
10...	1840	--	--	4020	--	--	--	--	--	44.0	10.3	10.3	--	44.0	44.0	44.0	44.0	44.0	44.0		
10...	1845	--	--	4450	200	7.0	28.0	24.0	9.2	67.5	8.2	8.2	9.2	67.5	67.5	67.5	67.5	67.5	67.5		
13...	1718	35.0	243	4020	243	5.9	29.2	24.0	6.6	22.3	25.1	25.1	6.6	22.3	22.3	22.3	22.3	22.3	22.3		
13...	1720	32.0	243	4020	243	5.9	29.2	--	6.7	22.4	15.8	15.8	6.7	22.4	22.4	22.4	22.4	22.4	22.4		
13...	1722	28.0	242	4020	242	5.9	29.3	--	6.8	25.7	15.5	15.5	6.8	25.7	25.7	25.7	25.7	25.7	25.7		
13...	1724	21.0	241	4020	241	6.1	29.4	--	7.2	27.7	16.3	16.3	7.2	27.7	27.7	27.7	27.7	27.7	27.7		
13...	1726	14.0	240	4020	240	6.6	29.6	--	--	37.5	13.9	13.9	--	37.5	37.5	37.5	37.5	37.5	37.5		
13...	1728	7.0	240	4020	240	6.6	29.6	--	--	65.0	11.8	11.8	--	65.0	65.0	65.0	65.0	65.0	65.0		
13...	1730	2.0	238	4020	238	7.0	29.8	24.0	--	40.0	14.3	14.3	--	40.0	40.0	40.0	40.0	40.0	40.0		
13...	1731	--	--	4020	--	--	--	--	--	7.9	17.1	17.1	--	7.9	7.9	7.9	7.9	7.9	7.9		
13...	1745	9.0	240	4450	240	6.1	29.3	22.0	7.9	40.5	48.2	48.2	12.0	40.5	40.5	40.5	40.5	40.5	40.5		
13...	1746	--	--	4450	--	--	--	--	--	12.0	11.1	11.1	9.7	12.0	12.0	12.0	12.0	12.0	12.0		
13...	1800	2.0	234	4020	234	8.0	30.0	--	12.0	77.1	14.2	14.2	9.7	77.1	77.1	77.1	77.1	77.1	77.1		
13...	1802	7.0	236	4020	236	7.3	29.7	--	9.7	60.0	14.2	14.2	8.5	60.0	60.0	60.0	60.0	60.0	60.0		
13...	1804	14.0	239	4020	239	6.3	29.5	--	8.5	43.6	12.6	12.6	6.9	43.6	43.6	43.6	43.6	43.6	43.6		
13...	1806	21.0	241	4020	241	5.8	29.2	--	6.9	24.8	13.8	13.8	6.7	24.8	24.8	24.8	24.8	24.8	24.8		
13...	1808	28.0	240	4020	240	5.8	29.2	--	6.7	25.2	13.4	13.4	6.7	25.2	25.2	25.2	25.2	25.2	25.2		
13...	1809	32.0	240	4020	240	5.8	29.2	--	6.7	25.2	13.4	13.4	6.7	25.2	25.2	25.2	25.2	25.2	25.2		
13...	1810	35.0	240	4020	240	5.9	29.2	--	6.7	25.2	13.4	13.4	6.7	25.2	25.2	25.2	25.2	25.2	25.2		
15...	1542	34.0	259	4020	259	7.1	28.5	20.0	5.5	21.6	22.3	22.3	5.5	21.6	21.6	21.6	21.6	21.6	21.6		
15...	1544	28.0	254	4020	254	7.2	28.7	--	5.6	20.5	7.8	7.8	5.6	20.5	20.5	20.5	20.5	20.5	20.5		
15...	1546	21.0	254	4020	254	7.2	28.8	--	5.6	20.5	7.8	7.8	5.6	20.5	20.5	20.5	20.5	20.5	20.5		
15...	1548	14.0	255	4020	255	7.3	29.0	--	7.5	34.0	9.7	9.7	7.5	34.0	34.0	34.0	34.0	34.0	34.0		
15...	1550	7.0	253	4020	253	7.6	29.1	--	7.8	39.2	9.2	9.2	7.8	39.2	39.2	39.2	39.2	39.2	39.2		
15...	1552	2.0	249	4020	249	7.7	29.1	--	8.3	43.8	10.3	10.3	8.3	43.8	43.8	43.8	43.8	43.8	43.8		
15...	1600	3.0	253	1710	253	7.1	28.9	12.0	6.2	21.0	8.2	8.2	6.2	21.0	21.0	21.0	21.0	21.0	21.0		
15...	1601	--	--	1710	--	--	--	--	--	21.0	8.2	8.2	--	21.0	21.0	21.0	21.0	21.0	21.0		
15...	1605	3.0	242	4140	242	8.7	29.2	17.0	9.6	42.3	27.8	27.8	9.6	42.3	42.3	42.3	42.3	42.3	42.3		
15...	1607	19.0	253	4140	253	7.4	28.8	--	7.1	15.5	19.4	19.4	7.1	15.5	15.5	15.5	15.5	15.5	15.5		
15...	1608	--	--	4140	--	--	--	--	--	15.5	19.4	19.4	--	15.5	15.5	15.5	15.5	15.5	15.5		
15...	1500	35.0	254	3490	254	6.8	27.7	25.0	4.8	42.3	27.8	27.8	4.8	42.3	42.3	42.3	42.3	42.3	42.3		
17...	1502	30.0	253	3490	253	6.7	27.7	--	4.9	15.9	15.9	15.9	4.9	15.9	15.9	15.9	15.9	15.9	15.9		

393818077072900 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCTI- VANCE (JMHS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLUORO- METRIC CORR. (JG/L)	(32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
17...	1504	21.0		3490		249		6.7		27.8				5.0		15.4		11.6		20.8	
17...	1506	14.0		3490		247		6.7		27.8				5.1		17.0		12.4		22.8	
17...	1508	7.0		3490		245		6.7		27.9				5.3		20.3		9.6		24.7	
17...	1510	2.0		3490		246		6.7		28.9				6.2		17.6		7.0		20.8	
17...	1511	--		3490		--		--		--				--		13.8		13.4		20.1	
17...	1525	22.0		4140		260		6.7		28.1		24.0		4.4		--		--		--	
17...	1527	2.0		4140		255		7.3		29.8				8.1		--		--		--	
17...	1528	--		4140		--		--		--				--		24.7		9.2		28.8	
17...	1530	3.0		1710		229		6.7		28.2				5.9		--		--		--	
17...	1531	--		1710		--		--		--				--		23.6		9.6		28.0	
20...	0815	22.0		4140		236		7.4		28.1		18.0		7.9		--		--		--	
20...	0817	12.0		4140		234		8.1		28.3				8.3		--		--		--	
20...	0819	1.0		4140		233		8.3		28.3				8.4		--		--		--	
20...	0820	--		4140		--		--		--				--		73.3		33.8		88.7	
20...	0825	--		50000		--		--		--				--		37.3		23.2		48.0	
20...	0830	35.0		3490		241		6.8		28.4		20.0		6.8		47.4		64.2		77.9	
20...	0832	32.0		3490		241		6.7		28.5				6.7		36.3		28.0		49.4	
20...	0834	29.0		3490		241		6.7		28.5				6.8		31.6		27.4		45.5	
20...	0836	21.0		3490		241		6.6		28.5				6.7		35.5		19.5		45.4	
20...	0837	14.0		3490		241		6.6		28.5		20.0		6.8		35.6		15.9		42.8	
20...	0839	7.0		3490		241		6.6		28.5				6.8		33.3		14.7		40.0	
20...	0841	1.0		3490		241		6.7		28.4				6.8		35.8		11.8		41.0	
20...	0842	--		3490		--		--		--				--		35.2		19.4		44.1	
20...	0850	29.0		2940		240		6.8		28.5		20.0		6.7		--		--		--	
20...	0852	15.0		2940		241		6.6		28.4				6.6		--		--		--	
20...	0854	1.0		2940		241		6.6		28.4				6.7		--		--		--	
20...	0856	--		2940		--		--		--				--		33.1		16.5		40.7	
20...	0900	8.0		1710		241		6.6		28.4				6.6		--		--		--	
20...	0902	1.0		1710		241		6.6		28.4		20.0		6.6		--		--		--	
20...	0903	--		1710		--		--		--				--		27.9		12.2		33.4	
20...	1830	26.0		4140		240		7.9		29.2				9.0		--		--		--	
20...	1832	13.0		4140		241		8.2		29.2		15.0		9.3		--		--		--	
20...	1834	5.0		4140		239		8.4		29.4				9.5		--		--		--	
20...	1836	1.0		4140		230		9.1		30.0				10.1		--		--		--	
20...	1837	--		4140		--		--		--				--		89.1		25.0		98.9	
20...	1845	--		50000		--		--		--				--		58.7		19.2		67.2	
20...	1847	35.0		3490		242		7.3		29.2		17.0		8.3		63.9		55.7		90.0	
20...	1849	30.0		3490		243		7.3		29.2				8.3		72.4		55.4		98.3	
20...	1851	22.0		3490		244		7.2		29.2				8.2		55.8		26.4		67.8	

APPENDIX A-2

383618077072900 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMP- LOC- TION, CROSS SECTION (FT FM BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLURO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
Jul											
20...	1853	14.0	3490	246	7.2	29.2	--	8.1	50.5	22.1	60.5
20...	1855	7.0	3490	248	7.2	29.2	--	8.0	56.2	13.3	61.9
20...	1857	1.0	3490	245	7.2	29.2	--	8.2	54.5	11.9	59.5
20...	1858	--	3490	--	--	--	--	--	56.1	22.3	66.2
20...	1900	24.0	2940	252	6.8	29.0	24.0	6.8	--	--	--
20...	1902	20.0	2940	251	6.9	29.1	--	7.5	--	--	--
20...	1904	18.0	2940	252	7.0	29.1	--	7.6	--	--	--
20...	1906	12.0	2940	254	7.0	29.1	--	7.7	--	--	--
20...	1908	1.0	2940	254	7.1	29.1	--	7.9	--	--	--
20...	1909	--	2940	--	--	--	--	--	39.4	12.2	44.8
20...	1910	7.0	1710	242	6.7	29.2	--	7.3	--	--	--
20...	1912	1.0	1710	242	6.7	29.2	--	7.3	--	--	--
20...	1913	--	1710	--	--	--	--	--	33.5	11.9	38.8
21...	0832	27.0	4140	241	7.2	28.3	16.0	6.7	--	--	--
21...	0835	13.0	4140	241	7.2	28.3	--	6.7	--	--	--
21...	0837	1.0	4140	238	7.5	28.3	--	6.9	--	--	--
21...	0838	--	4140	--	--	--	--	--	48.3	29.7	61.9
21...	0840	34.0	3490	241	7.0	28.4	18.0	6.7	45.3	29.6	59.0
21...	0842	30.0	3490	241	7.0	28.4	--	6.6	46.6	23.6	57.4
21...	0846	22.0	3490	242	7.0	28.5	--	6.6	43.3	19.1	51.9
21...	0848	14.0	3490	244	6.9	28.6	--	6.4	44.1	17.7	52.0
21...	0850	--	50000	--	--	--	--	--	47.5	21.0	57.0
21...	0851	7.0	3490	244	6.9	28.7	--	6.3	37.8	17.1	45.5
21...	0852	1.0	3490	245	6.8	28.8	--	6.2	32.8	11.3	37.8
21...	0854	--	3490	--	--	--	--	--	38.5	17.9	46.6
21...	0900	23.0	2940	241	6.8	28.7	23.0	6.3	--	--	--
21...	0902	11.0	2940	242	6.8	28.7	--	6.3	--	--	--
21...	0904	1.0	2940	243	6.8	28.8	--	6.4	--	--	--
21...	0905	--	2940	--	--	--	--	--	37.0	16.0	44.2
21...	0906	7.0	1710	244	6.7	28.7	19.0	6.2	--	--	--
21...	0908	1.0	1710	244	6.7	28.7	--	6.3	--	--	--
21...	0910	--	1710	--	--	--	--	--	31.5	10.9	36.4
21...	1815	30.0	4140	252	6.4	29.3	--	5.1	--	--	--
21...	1817	15.0	4140	264	6.4	29.4	--	5.9	--	--	--
21...	1819	1.0	4140	251	6.8	29.6	--	7.4	--	--	--
21...	1820	--	4140	--	--	--	--	--	35.8	12.4	41.2
21...	1825	36.0	3490	259	6.4	29.1	26.0	5.0	25.3	18.4	33.9
21...	1827	30.0	3490	258	6.3	29.1	--	5.1	26.4	15.2	33.4
21...	1829	28.0	3490	259	6.4	29.1	--	5.2	26.2	14.0	32.7

363818077072900 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING DEPTH (FT)	SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL' A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL' A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)	
JUL 21...	1831	22.0	3490	254	6.4	29.2	---	5.5	28.7	13.2	34.7	
21...	1833	14.0	3490	250	6.4	29.3	---	5.8	30.6	12.0	36.0	
21...	1835	7.0	3480	242	6.4	29.4	---	6.1	32.2	14.7	38.9	
21...	1837	1.0	3490	238	6.4	29.6	---	6.3	27.0	19.1	35.8	
21...	1839	---	3480	---	---	---	---	---	29.6	11.9	34.9	
21...	1840	---	50000	---	---	---	---	---	32.6	11.0	37.5	
21...	1850	19.0	2940	246	6.3	29.0	26.0	5.1	---	---	---	
21...	1852	10.0	2940	233	6.4	29.4	---	6.5	---	---	---	
21...	1854	1.0	2940	233	6.4	29.5	---	6.7	---	---	---	
21...	1855	---	2940	---	---	---	---	---	28.7	16.3	36.2	
21...	1900	5.0	1710	230	6.4	29.7	26.0	7.5	---	---	---	
21...	1902	1.0	1710	231	6.5	29.7	---	7.8	---	---	---	
21...	1904	---	1710	---	---	---	---	---	31.9	7.90	35.3	
22...	0750	29.0	4140	252	7.1	28.2	23.0	6.7	---	---	---	
22...	0752	14.0	4140	258	6.8	28.3	---	6.5	---	---	---	
22...	0754	1.0	4140	257	6.9	28.3	---	6.6	---	---	---	
22...	0755	---	4140	---	---	---	---	---	47.0	17.9	55.0	
22...	0800	---	50000	---	---	---	---	---	40.8	19.2	49.5	
22...	0802	35.0	3490	258	6.9	28.3	23.0	6.3	46.1	15.1	52.8	
22...	0804	30.0	3490	256	6.9	28.3	---	6.4	49.4	19.4	58.1	
22...	0806	22.0	3490	255	6.8	28.4	---	6.2	42.7	19.1	51.4	
22...	0807	14.0	3430	251	6.7	28.4	---	6.0	32.0	18.3	40.4	
22...	0808	7.0	3490	257	6.5	28.6	---	5.4	27.1	12.7	32.9	
22...	0810	1.0	3490	257	6.6	28.6	---	5.5	26.9	12.3	32.5	
22...	0811	---	3490	---	---	---	---	---	37.4	16.2	44.7	
22...	0814	---	2940	---	---	---	---	---	23.7	17.9	32.0	
22...	0815	24.0	2940	237	6.5	28.5	24.0	5.6	---	---	---	
22...	0817	12.0	2940	239	6.5	28.6	---	5.7	---	---	---	
22...	0819	1.0	2940	241	6.5	28.6	---	5.8	---	---	---	
22...	0820	5.0	1710	230	6.4	28.5	24.0	6.0	---	---	---	
22...	0822	1.0	1710	231	6.4	28.5	---	6.1	---	---	---	
22...	0824	---	1710	---	---	---	---	---	26.8	16.7	34.6	
27...	1200	1.0	4020	---	---	---	---	---	39.1	9.6	43.2	
27...	1201	6.0	4020	---	---	---	---	---	54.6	14.3	60.7	
27...	1202	13.0	4020	---	---	---	---	---	59.0	9.8	62.9	
27...	1203	19.0	4020	---	---	---	---	---	48.9	10.9	53.5	
27...	1204	26.0	4020	---	---	---	---	---	19.8	10.8	24.8	
27...	1205	32.0	4020	---	---	---	---	---	23.2	12.6	29.0	
27...	1206	35.0	4020	---	---	---	---	---	24.6	12.7	30.3	

APPENDIX A-2

383818077072900 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (JG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUL 27	1207	--	4020	--	--	--	--	--	36.4	10.0	40.7
27	1208	--	4140	--	--	--	--	--	47.7	12.5	53.0
28	1020	--	4020	--	--	--	--	--	28.7	15.9	36.0
28	1021	33.0	4020	261	7.2	27.6	22.0	5.7	32.7	25.9	44.8
28	1022	27.0	4020	261	7.1	27.6	--	5.7	31.9	20.4	41.4
28	1024	20.0	4020	261	7.0	27.6	--	5.7	32.7	17.5	40.7
28	1026	13.0	4020	260	7.0	27.6	--	5.7	30.5	13.3	36.5
28	1028	6.0	4020	260	7.0	27.6	--	5.8	32.6	12.7	38.3
28	1030	1.6	4020	260	7.0	27.6	--	5.8	32.0	9.7	36.2
28	1035	1.6	1710	234	6.9	27.8	--	6.0	--	--	--
28	1040	24.0	4140	252	7.0	27.7	--	5.7	--	--	--
28	1042	1.5	4140	252	7.0	27.7	--	5.8	--	--	--
28	1043	--	4140	--	--	--	--	--	--	--	--
28	1045	--	1710	--	--	--	--	--	31.6	14.4	38.1
29	1640	32.0	4020	257	6.5	27.6	18.0	6.4	27.4	11.9	32.8
29	1642	26.0	4020	260	6.8	27.6	--	7.3	48.3	27.8	61.1
29	1644	19.0	4020	262	6.9	27.5	--	8.0	57.1	12.4	62.3
29	1646	13.0	4020	255	7.3	27.5	--	8.2	67.7	14.0	73.6
29	1648	6.0	4020	270	7.6	27.5	--	8.5	61.9	15.6	68.6
29	1650	2.0	4020	274	7.8	27.6	--	8.6	79.6	17.6	86.0
29	1652	--	4020	--	--	--	--	--	73.8	17.7	81.4
29	1655	--	4140	--	--	--	--	--	63.1	16.8	70.3
29	1705	5.0	1710	290	8.8	27.9	14.0	9.6	103	20.3	112
31	1802	32.0	4020	273	6.6	27.1	17.0	7.1	61.8	79.6	99.6
31	1804	26.0	4020	272	6.7	27.2	--	7.6	48.8	48.8	84.0
31	1806	20.0	4020	272	6.9	27.2	--	8.3	61.2	31.9	79.1
31	1808	13.0	4020	270	7.1	27.3	--	8.6	50.2	25.3	61.7
31	1810	6.0	4020	272	8.1	27.6	--	10.4	42.8	14.9	49.4
31	1812	3.0	4020	273	8.4	27.9	--	11.3	74.1	15.0	80.3
31	1814	1.5	4020	273	8.5	28.1	--	12.2	86.1	5.6	87.6
31	1820	--	4140	--	--	--	--	--	101	21.3	110
31	1830	6.0	1710	279	8.9	28.3	13.0	13.2	--	--	--
AUG 04	1430	32.0	4020	319	6.6	27.4	19.0	6.3	16.1	63.2	46.5
04	1432	26.0	4020	316	6.7	27.4	--	6.4	9.5	27.0	21.5
04	1434	20.0	4020	316	6.7	27.5	--	6.4	8.4	19.3	17.7
04	1436	13.0	4020	311	6.7	27.5	--	6.6	22.8	15.9	30.1
04	1438	6.0	4020	290	6.5	27.9	--	6.4	15.3	14.1	21.9
04	1440	1.5	4020	271	6.5	28.6	--	6.5	15.6	11.2	20.9
04	1442	--	4020	--	--	--	--	--	22.5	15.6	29.7

APPENDIX A-2

383818077072800 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPY -TIN A FLURO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLOURO- METRIC METHOD UNCORR. (UG/L)
(00003)	(00009)	(00095)	(00400)	(00010)	(00300)	(00077)	(00300)	(32209)	(32213)	(32217)	
AUG 04....	1448	5.0	1710	300	7.1	28.2	18.0	8.3	---	---	---
04....	1450	---	4140	---	---	---	---	---	49.0	19.3	57.7
05....	1200	1.0	4020	---	---	---	---	---	27.8	13.5	34.0
05....	1201	6.0	4020	---	---	---	---	---	30.3	12.3	35.8
05....	1202	13.0	4020	---	---	---	---	---	36.5	14.5	43.0
05....	1204	26.0	4020	---	---	---	---	---	40.9	14.7	47.4
05....	1205	32.0	4020	---	---	---	---	---	40.7	15.2	47.5
05....	1206	---	4020	---	---	---	---	---	33.2	12.6	39.8
05....	1207	---	4140	---	---	---	---	---	58.2	9.7	62.1
05....	1800	32.0	4020	293	6.8	28.1	20.0	6.0	---	---	---
05....	1802	26.0	4020	293	6.7	28.1	---	6.1	---	---	---
05....	1804	20.0	4020	293	6.7	28.2	---	6.5	---	---	---
05....	1806	13.0	4020	273	6.5	28.3	---	5.8	---	---	---
05....	1808	6.0	4020	252	6.3	28.4	---	5.7	---	---	---
05....	1810	2.0	4020	252	6.3	28.4	---	5.7	---	---	---
05....	1830	6.0	1710	294	6.8	28.5	---	7.4	---	---	---
06....	1550	25.0	4140	339	7.0	27.4	18.0	6.5	---	---	---
06....	1552	12.0	4140	329	6.9	27.5	---	6.2	---	---	---
06....	1553	1.0	4140	326	6.8	27.4	---	6.2	---	---	---
06....	1554	---	4140	---	---	---	---	---	44.2	32.0	59.1
06....	1555	35.0	3490	346	7.0	27.5	15.0	6.4	55.6	18.9	63.9
06....	1557	28.0	3490	345	7.0	27.5	---	6.4	55.5	18.1	63.5
06....	1559	21.0	3490	337	6.9	27.5	---	6.2	49.6	14.8	56.0
06....	1601	14.0	3490	321	6.8	27.5	---	5.9	43.2	16.0	50.3
06....	1603	7.0	3490	314	6.7	27.5	---	5.8	35.9	16.8	43.6
06....	1605	4.0	3490	314	6.7	27.5	---	5.8	40.8	13.8	46.9
06....	1607	1.0	3490	314	6.7	27.5	---	5.8	39.2	14.1	45.5
06....	1608	---	3490	---	---	---	---	---	44.8	15.4	51.6
06....	1610	---	50000	---	---	---	---	---	37.9	15.7	44.9
06....	1615	24.0	2940	289	6.5	27.6	24.0	5.1	---	---	---
06....	1617	12.0	2940	289	6.5	27.6	---	5.1	---	---	---
06....	1619	1.0	2940	288	6.5	27.5	---	5.2	---	---	---
06....	1620	---	2940	---	---	---	---	---	29.2	15.3	36.2
06....	1625	5.0	1710	287	6.6	27.3	21.0	5.8	---	---	---
06....	1627	1.0	1710	287	6.6	27.3	---	5.9	---	---	---
06....	1630	---	1710	---	---	---	---	---	---	---	---
07....	1045	32.0	4020	332	7.0	26.6	23.0	5.7	31.0	13.3	37.0
07....	1047	26.0	4020	332	6.9	26.6	---	5.8	33.8	22.1	44.0
07....	1049	20.0	4020	332	6.9	26.6	---	5.8	33.6	23.2	44.4
07....	1049	20.0	4020	332	6.9	26.6	---	5.8	39.3	19.1	47.0

38381807702800 - POTOMAC RIVER AT HALLOWING POINT --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECKI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLDRO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLURO- METRIC METHOD (UG/L) (32213)	CHLDRO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)
10...	07...	13.0	4020	335	6.9	26.6	---	5.9	41.4	18.7	49.9
07...	1053	6.0	4020	336	6.9	26.6	---	6.0	37.1	18.8	45.7
07...	1055	1.5	4020	337	6.9	26.8	---	6.3	38.1	16.8	45.8
07...	1056	---	4020	---	---	---	---	---	32.6	21.2	42.4
07...	1100	---	4140	---	---	---	---	---	25.3	9.3	29.5
07...	1130	6.0	1710	352	7.1	26.3	20.0	6.7	---	---	---
07...	1532	32.0	4020	353	6.8	26.8	23.0	5.9	34.6	21.1	44.3
07...	1534	26.0	4020	351	6.7	26.8	---	5.8	30.0	18.3	38.4
07...	1536	20.0	4020	354	6.8	26.8	---	6.0	30.4	16.4	37.9
07...	1538	13.0	4020	343	6.7	26.8	---	5.6	32.4	16.4	39.9
07...	1540	6.0	4020	344	6.7	26.9	---	5.8	35.2	17.5	43.1
07...	1541	3.0	4020	351	7.8	27.3	---	8.8	13.0	13.0	60.0
07...	1542	1.0	4020	353	8.3	28.7	---	10.0	51.0	9.6	54.9
07...	1544	---	4020	---	---	---	---	---	36.6	20.9	46.2
07...	1545	6.0	1710	339	6.9	26.9	23.0	6.0	---	---	---
07...	1550	---	4140	---	---	---	---	---	45.0	16.8	52.5
10...	1832	32.0	4020	306	6.4	27.8	20.0	5.7	36.3	17.7	44.4
10...	1834	26.0	4020	305	6.4	27.8	---	5.6	38.3	15.0	45.0
10...	1836	20.0	4020	306	6.4	27.8	---	5.8	38.6	14.4	45.0
10...	1838	13.0	4020	308	6.4	27.9	---	6.1	46.4	12.4	51.8
10...	1840	6.0	4020	317	6.6	28.0	---	6.8	46.9	11.1	51.6
10...	1842	3.0	4020	337	7.3	28.4	---	9.6	78.2	7.0	80.4
10...	1844	1.5	4020	338	8.9	29.3	---	10.2	98.6	8.5	101
10...	1845	---	4020	---	---	---	---	---	44.3	13.5	50.2
10...	1850	5.0	1710	304	6.7	28.0	16.0	6.4	---	---	---
10...	1855	---	4140	---	---	---	---	---	55.3	11.2	60.0
18...	1045	16.0	4140	396	7.5	26.2	18.0	6.8	---	---	---
18...	1047	7.0	4140	379	7.4	26.4	---	6.7	---	---	---
18...	1049	1.6	4140	376	7.4	26.6	---	6.6	---	---	---
18...	1050	---	4140	---	---	---	---	---	60.4	20.0	69.2
18...	1055	36.0	3480	404	7.8	25.9	24.0	7.4	68.1	25.6	79.5
18...	1057	26.0	3480	379	7.5	26.2	---	6.9	63.5	18.3	71.5
18...	1059	20.0	3480	395	7.3	26.5	---	6.1	52.1	17.6	59.9
18...	1101	13.0	3480	401	7.2	26.7	---	5.7	46.4	19.3	55.2
18...	1103	6.0	3480	398	7.1	26.8	---	5.5	45.3	19.9	54.3
18...	1105	1.6	3480	390	7.2	27.0	---	6.1	48.8	16.9	56.2
18...	1106	---	3480	---	---	---	---	---	53.5	19.1	62.0
18...	1108	---	2940	---	---	---	---	---	40.9	17.8	48.9
18...	1110	23.0	2940	377	7.2	26.9	24.0	5.7	---	---	---

APPENDIX A-2

383818077072900 - POTOMAC RIVER AT HALLOWING POINT ---Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (000003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (000009)	SPE- CIFIC CON- DUCT- ANCE (JMHO5) (000095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (JG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
AUG											
18...	1112	10.0	2940	377	7.2	26.9	---	5.7	---	---	---
18...	1114	1.6	2940	379	7.3	27.1	---	6.4	---	---	
18...	1115	5.0	1710	362	7.2	26.8	24.0	6.2	---	---	
18...	1117	1.5	1710	370	7.6	27.1	---	7.2	---	---	
18...	1118	---	1710	---	---	---	---	---	14.0	57.4	
18...	1130	---	50000	---	---	---	---	51.3	18.3	61.0	
24...	1930	26.0	4140	789	6.5	24.3	---	7.3	---	---	
24...	1932	20.0	4140	782	6.5	24.3	---	7.3	---	---	
24...	1934	10.0	4140	758	6.5	24.4	---	7.6	---	---	
24...	1936	4.0	4140	753	7.6	24.9	---	10.0	---	---	
24...	1938	1.0	4140	748	7.7	25.0	---	10.3	---	---	
24...	1940	---	4140	---	---	---	---	---	20.4	57.7	
24...	1945	---	50000	---	---	---	---	---	17.7	64.7	
24...	1947	36.0	3490	694	6.6	24.5	---	7.9	29.2	67.5	
24...	1949	28.0	3490	597	6.7	24.6	---	8.7	14.7	65.8	
24...	1951	20.0	3490	600	6.7	24.6	---	8.6	14.5	62.6	
24...	1953	10.0	3490	588	6.8	24.7	---	8.8	14.1	65.1	
24...	1955	4.0	3490	539	6.6	24.7	---	8.4	16.1	60.7	
24...	1957	1.0	3490	535	6.5	24.6	---	8.3	13.9	57.5	
24...	1958	---	3490	---	---	---	---	---	17.2	63.4	
24...	2000	26.0	2940	509	6.4	24.6	---	8.1	---	---	
24...	2002	18.0	2940	502	6.4	24.6	---	8.1	---	---	
24...	2004	10.0	2940	510	6.4	24.6	---	8.2	---	---	
24...	2006	4.0	2940	490	6.4	24.7	---	8.6	---	---	
24...	2007	1.0	2940	499	6.5	24.0	---	8.6	---	---	
24...	2008	---	2940	---	---	---	---	---	13.7	61.1	
24...	2010	6.0	1710	506	6.8	24.8	---	9.0	---	---	
24...	2012	1.0	1710	505	6.6	24.8	---	9.2	---	---	
24...	2014	---	1710	---	---	---	---	---	14.3	68.0	
25...	0810	6.0	1710	591	7.0	24.0	16.0	7.4	---	---	
25...	0812	1.0	1710	591	7.0	24.0	---	7.4	---	---	
25...	0814	---	1710	---	---	---	---	---	19.9	55.5	
25...	0820	20.0	2940	606	7.0	24.0	---	7.5	---	---	
25...	0822	12.0	2940	596	7.0	24.0	---	7.6	---	---	
25...	0824	1.0	2940	588	7.1	24.0	---	7.9	---	---	
25...	0825	---	2940	---	---	---	---	---	19.3	57.1	
25...	0826	37.0	3490	880	7.1	24.0	18.0	7.4	28.2	64.6	
25...	0827	24.0	3490	644	6.9	24.0	---	7.0	16.6	55.7	
25...	0829	20.0	3490	610	7.0	24.0	---	7.1	15.6	56.7	

APPENDIX A-2

383818077072900 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LINS DEPTH (FT)	(00003)	SAMPLE LCC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (JMHDS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI .DISK) (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL. A FLUORO- METRIC CORR. (JG/L)	(32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL. A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
AUG 25	0831	10.0		3480		602		6.9		24.0				7.2		45.3		18.3		53.5	
25	0833	4.0		3480		599		7.0		24.0				7.2		47.5		16.9		55.0	
25	0834	1.0		3480		590		7.0		24.0				7.3		47.5		16.9		55.0	
25	0835			3480												48.8		18.5		57.0	
25	0845			50000												55.0		17.2		62.6	
25	0850	23.0		4140		794		7.0		24.0		19.0		7.2							
25	0852	11.0		4140		765		7.0		24.0				7.3							
25	0854	1.0		4140		751		7.0		24.0				7.3							
25	0855			4140																	
25	0855			4140																	
25	1950	5.0		1710		562		7.5		24.4				8.7		49.2		21.7		59.0	
25	1952	1.0		1710		552		7.4		24.4				8.7							
25	1953			1710												64.4		12.0		69.3	
25	1955	22.0		2940		599		7.2		24.4				8.1							
25	1957	10.0		2940		566		7.2		24.4				8.2							
25	1959	4.0		2940		565		7.3		24.4				8.5							
25	2001	1.0		2940		567		7.4		24.4				8.5							
25	2002			2940												61.2		15.4		67.8	
25	2015			50000												60.0		15.4		66.6	
25	2017	35.0		3480		755		7.2		24.2				7.8		58.6		25.9		70.4	
25	2019	28.0		3480		754		7.5		24.3				8.5		56.9		20.6		66.1	
25	2021	20.0		3480		759		7.8		24.2				8.8		56.6		16.3		63.7	
25	2023	10.0		3480		775		7.8		24.4				8.8		57.6		16.8		64.9	
25	2025	4.0		3480		792		8.1		24.5				9.5		65.6		11.6		70.3	
25	2027	1.0		3480		792		8.7		24.5				9.5		61.4		12.6		66.7	
25	2028			3480												55.7		17.3		63.3	
25	2030	19.0		4140		709		7.7		24.4				8.9							
25	2032	10.0		4140		670		7.8		24.5				9.0							
25	2034	4.0		4140		580		7.7		24.4				9.0							
25	2036	1.0		4140		514		7.4		24.4				8.7							
25	2037			4140																	
26	0820	4.0		1710		771		6.9		23.8		13.0		7.1		64.0		17.4		71.5	
26	0822	1.0		1710		776		7.0		23.8				7.2							
26	0824			1710												48.1		19.6		56.9	
26	0825	24.0		2940		1050		7.0		23.8		18.0		6.7							
26	0827	12.0		2940		850		7.0		23.9				6.9							
26	0829	1.0		2940		786		7.1		23.9				7.4							
26	0830			2940																	
26	0835	33.0		3480		1170		7.1		23.9		18.0		7.0		43.5		17.8		51.5	
26	0837	28.0		3480		1130		7.1		24.0				7.1		48.8		32.4		63.8	
																53.6		28.4		66.7	

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMP- LING (FT)	SAMP- L BANK (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHDS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L) (32209)	PHEOPY FLURO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)
AUG 26...	0839	20.0	3480		1030	7.3	23.9		7.4	55.5	26.7	67.6
26...	0841	10.0	3480		860	7.1	23.9		7.2	52.6	18.7	60.9
26...	0843	4.0	3480		780	7.0	23.9		7.2	48.2	19.7	57.0
26...	0844	1.0	3480		741	7.0	23.9		7.3	47.0	19.0	55.5
26...	0845	--	3480		--	--	--		--	53.8	18.1	61.8
26...	0900	--	50000		--	--	--		--	51.2	20.9	60.6
26...	0902	27.0	4140		892	7.2	23.8	17.0	7.5	--	--	--
26...	0904	11.0	4140		870	7.2	23.9		7.3	--	--	--
26...	0906	1.0	4140		649	7.1	24.0		7.4	--	--	--
26...	0907	--	4140		--	--	--		--	55.9	30.8	70.0
26...	1900	9.0	1710		1800	7.7	24.9	19.0	9.0	--	--	--
26...	1902	4.0	1710		1710	7.7	24.9		9.0	--	--	--
26...	1904	1.0	1710		1720	7.7	24.9		9.0	--	--	--
26...	1905	--	1710		--	--	--		--	52.3	11.9	57.4
26...	1906	23.0	2940		2100	6.9	24.4	20.0	6.3	--	--	--
26...	1908	10.0	2940		1610	7.1	24.6		7.7	--	--	--
26...	1910	4.0	2940		1580	7.7	24.9		9.0	--	--	--
26...	1912	1.0	2940		1500	7.9	24.9		9.3	--	--	--
26...	1915	--	2940		--	--	--		--	54.1	12.6	59.5
26...	1919	33.0	3480		--	--	--		--	39.7	18.3	48.0
26...	1920	--	50000		--	--	--		--	58.4	8.8	61.9
26...	1921	39.0	3480		2220	6.8	24.3		6.1	--	--	--
26...	1922	28.0	3480		1850	6.9	24.4		6.8	39.0	15.6	46.0
26...	1924	20.0	3480		1500	7.1	24.6		7.6	47.7	14.7	54.1
26...	1926	10.0	3480		1400	7.8	24.7		8.9	58.9	11.1	63.4
26...	1928	4.0	3480		1350	7.9	24.7		9.1	59.4	11.9	64.4
26...	1930	1.0	3480		1350	7.9	24.6		9.2	61.0	11.1	65.5
26...	1932	--	3480		--	--	--		--	49.3	14.2	55.4
26...	1935	19.0	4140		1730	7.0	24.4		6.8	--	--	--
26...	1937	10.0	4140		1480	7.4	24.5		8.0	--	--	--
26...	1939	4.0	4140		1320	8.2	24.8		9.9	--	--	--
26...	1941	1.0	4140		1220	8.3	24.9		10.4	--	--	--
26...	1942	--	4140		--	--	--		--	62.1	13.6	67.8
SEP 03...	1000	35.0	4020		1890	7.0	25.0		6.3	50.0	29.3	63.5
03...	1002	21.0	4020		1680	6.9	25.1		6.4	53.2	17.9	61.1
03...	1004	11.0	4020		1640	6.9	25.1		6.5	--	--	--
03...	1006	4.0	4020		1730	6.9	25.1		6.6	60.0	18.5	68.1
03...	1008	1.0	4020		--	--	--		--	74.2	17.9	81.9
10...	0922	36.0	4020		1350	6.8	23.9	23.0	6.0	33.1	26.7	45.6

38381R07702900 - POTOMAC RIVER AT HALLOWING POINT --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMP- DEPTH (00003)	LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC CORR. (JG/L)	CHLORO- PHYLL A FLUORO- METRIC CORR. (000300)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD (UG/L)
					(00095)	(00400)	(00010)	(00077)	(00300)	(32209)		(32213)	(32217)
10...	0924	29.0		4020	1340	6.8	23.9	--	5.9	40.0		19.8	49.0
10...	0926	19.0		4020	1220	6.8	23.9	--	5.8	37.5		17.4	45.4
10...	0928	13.0		4020	1080	6.8	23.9	--	5.6	37.5		18.6	46.0
10...	0930	6.0		4020	1050	6.8	23.9	--	5.5	35.1		18.0	43.4
10...	0932	1.5		4020	851	6.8	23.9	--	5.5	37.0		15.5	44.0
10...	0935	--		1710	--	--	--	--	--	38.8		18.7	47.3
10...	0940	--		4140	--	--	--	--	--	40.4		19.0	49.1
16...	0902	38.0		4020	1140	6.7	24.1	--	6.5	50.4		24.9	61.8
16...	0904	25.0		4020	1070	6.5	24.3	--	6.5	48.6		22.0	58.6
16...	0906	15.0		4020	930	6.5	24.5	--	6.3	42.8		22.2	52.9
16...	0908	8.0		4020	950	6.5	24.6	--	6.1	38.4		23.9	49.4
16...	0910	3.0		4020	942	6.5	24.6	--	6.1	38.6		22.1	48.8
16...	0915	--		1710	--	--	--	--	--	41.2		20.6	50.6
16...	0920	--		4140	--	--	--	--	--	80.0		21.9	89.5
22...	0815	--		1710	--	--	--	--	--	30.2		19.6	39.3
22...	0827	33.0		4020	706	7.1	21.5	20.0	6.5	25.1		38.2	43.3
22...	0829	26.0		4020	697	7.1	21.5	--	6.5	24.0		26.5	36.6
22...	0831	19.0		4020	681	7.1	21.5	--	6.4	21.5		24.3	33.0
22...	0833	13.0		4020	677	7.1	21.5	--	6.4	22.6		25.1	34.5
22...	0835	6.0		4020	650	7.1	21.5	--	6.4	18.5		18.1	27.0
22...	0837	1.5		4020	647	7.1	21.5	--	6.4	18.6		17.9	27.0
22...	0840	--		4140	--	--	--	--	--	22.8		28.5	36.3

01655480 - POTOMAC R AT INDIAN HEAD, MD

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
02	1740	23.0	1200	1302	6.7	22.4	22.0	5.9	29.5	28.7	43.0
02	1742	12.0	1200	1016	6.6	22.3	---	5.4	29.0	17.2	36.9
02	1744	6.0	1200	925	6.7	22.5	---	6.0	32.8	15.7	40.0
02	1746	1.0	1200	893	6.8	22.6	---	6.3	34.1	16.5	41.6
02	1750	38.0	2340	977	6.6	22.2	---	5.2	---	---	---
02	1752	18.0	2340	817	6.6	22.1	---	4.9	---	---	---
02	1754	1.0	2340	751	6.8	22.2	---	5.7	---	---	---
02	1755	---	2340	---	---	---	---	---	---	---	---
02	1800	---	50000	---	---	---	---	---	28.6	22.4	39.1
02	1805	13.0	3480	783	6.8	22.4	19.0	---	33.3	22.7	43.9
02	1807	1.0	3480	710	6.8	22.3	---	6.3	---	---	---
02	1808	---	3480	---	---	---	---	6.1	---	---	---
02	1810	11.0	5420	702	6.9	22.2	19.0	---	36.0	20.3	45.3
02	1812	1.0	5420	701	6.8	22.2	---	6.8	---	---	---
02	1815	---	5420	---	---	---	---	6.8	---	---	---
03	0800	21.0	1200	810	6.2	20.9	18.0	---	45.4	25.5	57.1
03	0802	12.0	1200	786	6.2	20.9	---	5.7	27.5	28.6	41.0
03	0804	6.0	1200	768	6.2	20.9	---	5.6	28.1	26.0	40.3
03	0806	1.0	1200	731	6.3	20.8	---	5.6	26.0	20.0	35.4
03	0808	---	2340	---	---	---	---	5.7	27.2	17.7	35.4
03	0810	36.0	2340	611	6.2	20.8	16.0	---	33.8	23.5	44.7
03	0812	18.0	2340	601	6.2	20.9	---	5.4	---	---	---
03	0814	1.0	2340	642	6.2	20.7	---	5.6	---	---	---
03	0820	---	3480	---	---	---	---	5.6	---	---	---
03	0825	9.0	3480	599	6.2	20.6	17.0	---	33.3	23.3	44.2
03	0827	1.0	3480	594	6.2	20.7	---	5.6	---	---	---
03	0835	11.0	5420	621	6.2	20.9	---	5.7	---	---	---
03	0837	1.0	5420	625	6.4	20.9	16.0	6.7	---	---	---
03	0840	---	5420	---	---	---	---	6.7	---	---	---
03	0850	---	50000	---	---	---	---	---	41.2	25.5	52.9
21	1202	23.0	1200	571	7.0	17.2	18.0	---	36.7	25.1	48.3
21	1204	13.0	1200	572	7.1	17.1	---	8.4	38.8	27.8	51.8
21	1206	6.0	1200	570	7.0	17.1	---	8.5	48.6	24.9	60.0
21	1208	1.0	1200	567	7.1	17.2	---	8.5	47.5	25.2	59.1
21	1220	6.0	5420	915	8.8	16.9	12.0	8.8	40.2	21.0	49.8
21	1222	1.0	5420	915	8.8	16.9	---	10.5	---	---	---
21	1225	---	5420	---	---	---	---	10.5	---	---	---
21	1235	9.0	3480	592	7.6	17.1	12.0	---	95.6	22.3	105
21	1237	1.0	3480	609	7.7	16.9	---	9.6	---	---	---

01655480 -- POTOMAC R AT INDIAN HEAD, MD --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLI A FLURO- METRIC METHOD CORR. (JG/L)	PHEOPY -TIN A FLURO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
OCT	1240	--	3430	--	--	--	--	--	50.3	28.4	63.4
	1245	38.0	2340	560	7.2	17.1	18.0	8.7	44.0	25.0	55.5
	1247	20.0	2340	559	7.1	17.1	--	8.6	45.5	20.5	54.8
	1249	6.0	2340	559	7.1	17.1	--	8.6	47.0	22.0	57.0
	1251	1.0	2340	553	7.1	17.2	--	8.7	43.8	20.5	53.1
	1255	--	50000	--	--	--	--	--	54.2	18.3	62.3
NOV	1000	--	50000	--	--	--	--	--	25.0	12.5	30.7
	1005	26.0	1200	4200	7.6	9.1	25.0	9.5	23.1	12.0	28.6
	1007	13.0	1200	3900	7.6	9.0	--	9.6	21.8	12.1	27.3
	1009	6.0	1200	2800	7.7	8.7	--	10.0	22.0	12.8	27.8
	1011	2.0	1200	2000	7.8	8.5	--	10.3	20.1	9.9	24.6
	1030	36.0	2340	5600	7.5	9.4	31.0	9.3	22.8	17.7	31.0
	1032	18.0	2340	3900	7.6	9.1	--	9.6	22.5	14.1	29.0
	1034	2.0	2340	1900	7.8	8.5	25.0	10.4	22.0	9.4	26.2
	1045	10.0	3430	2700	7.8	8.5	--	10.3	--	--	--
	1047	2.0	3430	2700	7.8	8.5	--	10.4	--	--	--
	1048	--	3430	--	--	--	--	--	26.9	12.5	32.6
	1049	--	5420	--	--	--	--	--	30.5	13.8	36.8
	1050	10.0	5420	3100	7.7	8.8	28.0	10.0	--	--	--
	1052	2.00	5420	2400	7.8	8.5	--	10.4	--	--	--
DEC	1100	--	1200	--	--	--	--	--	18.1	16.0	25.6
	1105	35.0	1200	807	7.9	5.2	18.0	11.3	21.7	31.0	36.5
	1107	20.0	1200	798	7.9	5.2	--	11.3	17.1	17.0	25.1
	1109	13.0	1200	756	7.9	5.3	--	11.4	17.8	13.1	23.9
	1111	6.0	1200	726	7.9	5.2	--	11.4	17.5	13.9	24.0
	1113	1.0	1200	714	7.9	5.3	--	11.4	16.3	14.0	22.9
	1120	--	50000	--	--	--	--	--	18.9	14.8	25.8
	1124	--	2340	--	--	--	--	--	19.5	20.2	29.0
	1125	39.0	2340	773	7.9	5.2	23.0	11.4	--	--	--
	1127	18.0	2340	770	7.9	5.2	--	11.3	--	--	--
	1129	1.0	2340	711	7.9	5.3	--	11.5	--	--	--
	1137	10.0	3430	695	7.9	5.2	23.0	11.4	17.9	15.1	25.0
	1139	1.0	3430	688	7.9	5.2	--	11.5	--	--	--
	1145	12.0	5420	972	8.1	4.5	26.0	11.9	21.6	13.6	27.9
	1147	1.0	5420	837	8.0	4.8	--	11.8	19.3	12.2	24.9
	1150	--	5420	--	--	--	--	--	20.2	13.0	26.2
FER	1425	29.0	1500	2710	7.8	1.2	--	12.1	--	--	--
	1427	15.0	1500	2500	7.8	1.2	--	12.1	--	--	--
	1429	3.0	1500	2290	7.8	1.2	--	12.0	6.8	5.3	9.4

01655480 -- POTOMAC R AT INDIAN HEAD, MD --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLDR- PHYLLA FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLDR- PHYLLA FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
FEB											
04...	1155	---	1500	---	---	---	---	---	10.0	7.3	13.4
04...	1200	39.0	1500	3090	8.0	.8	26.0	12.2	11.2	16.3	19.0
04...	1202	25.0	1500	3060	8.0	.9	---	11.8	11.5	15.8	19.0
04...	1204	15.0	1500	3030	8.0	.9	---	11.7	9.7	10.2	14.5
04...	1206	7.0	1500	2940	8.0	.9	---	11.6	8.8	6.3	11.7
04...	1208	2.0	1500	2960	8.0	.9	---	11.5	8.8	6.4	11.8
04...	1217	10.0	5300	3360	8.1	.6	24.0	11.7	13.5	5.6	16.0
04...	1219	2.0	5300	3350	8.1	.7	---	11.4	12.5	6.6	15.5
04...	1220	---	5300	---	---	---	---	---	13.6	5.1	15.9
11...	1550	39.0	1500	3350	7.6	1.8	---	11.1	12.3	6.8	15.4
11...	1552	25.0	1500	3250	7.8	1.7	---	11.8	11.6	4.7	13.7
11...	1554	15.0	1500	---	---	---	---	---	9.5	5.1	11.8
11...	1556	7.0	1500	---	---	---	---	---	9.3	4.9	11.6
11...	1558	2.0	1500	---	---	---	---	---	8.5	4.2	10.4
17...	1210	37.0	1500	616	7.3	3.4	18.0	11.0	11.4	16.8	19.4
17...	1212	25.0	1500	604	7.2	3.4	---	11.0	10.4	10.5	15.4
17...	1214	15.0	1500	592	7.2	3.4	---	10.9	9.8	9.3	14.2
17...	1216	7.0	1500	586	7.2	3.4	---	11.0	10.2	6.9	13.4
17...	1218	2.0	1500	575	7.2	3.4	---	11.0	10.3	7.8	13.9
24...	1600	37.0	1500	290	7.0	7.9	---	9.0	25.7	36.1	42.8
24...	1602	20.0	1500	288	7.0	7.9	---	9.0	14.8	12.2	20.4
24...	1604	12.0	1500	290	7.0	8.0	---	8.9	13.4	8.9	17.6
24...	1606	2.0	1500	295	7.1	8.0	---	8.9	11.3	8.2	15.1
MAR											
04...	0735	---	1500	---	---	---	---	---	3.5	6.4	6.6
04...	0740	38.0	1500	198	7.7	7.1	11.0	11.4	3.8	7.6	7.4
04...	0742	23.0	1500	197	7.7	7.1	---	11.3	3.4	6.6	6.5
04...	0744	12.0	1500	196	7.7	7.1	---	11.3	3.1	6.6	6.2
04...	0746	2.0	1500	194	7.7	7.0	---	11.3	3.1	6.3	6.2
04...	0751	11.0	5300	328	7.7	6.7	---	12.1	7.4	11.6	12.9
04...	0752	2.0	5300	298	7.7	6.7	---	11.4	5.8	7.80	9.5
18...	0828	3.0	1500	---	---	---	---	---	7.0	8.80	11.1
24...	1230	40.0	1500	314	7.5	5.3	---	10.1	3.5	13.9	10.2
24...	1232	30.0	1500	318	7.5	5.3	---	10.1	---	---	---
24...	1234	20.0	1500	312	7.5	5.5	---	10.2	3.5	11.1	8.8
24...	1236	10.0	1500	310	7.6	5.4	---	10.0	---	---	---
24...	1238	2.0	1500	306	7.6	5.7	---	10.1	3.3	9.4	7.8
APR											
01...	1530	35.0	1500	369	7.4	10.2	20.0	9.7	4.9	11.0	10.1
01...	1532	30.0	1500	363	7.4	10.1	---	9.6	---	---	---
01...	1534	20.0	1500	360	7.4	10.2	---	9.6	4.9	8.3	8.8

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOCATION, CROSS SECTION, (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
APR											
01...	1536	10.0	1500	347	7.4	10.2	--	9.6	--	--	--
01...	1538	2.0	1500	348	7.4	10.6	--	9.6	4.5	5.4	7.0
09...	1410	41.0	1500	377	7.2	13.9	--	8.3	13.3	28.2	26.8
09...	1412	30.0	1500	377	7.2	13.9	--	8.3	--	--	--
09...	1414	20.0	1500	377	7.3	14.0	--	8.3	11.9	16.1	19.5
09...	1416	10.0	1500	377	7.3	14.0	--	8.3	--	--	--
09...	1418	3.0	1500	377	7.3	14.0	--	8.4	10.1	15.2	17.4
15...	1002	37.0	1500	312	7.2	14.5	6.0	7.5	15.5	71.2	49.8
15...	1004	25.0	1500	309	7.2	14.5	--	7.5	10.4	31.2	25.4
15...	1006	15.0	1500	309	7.2	14.5	--	7.6	9.7	19.4	19.0
15...	1008	2.0	1500	309	7.2	14.5	--	7.6	7.3	19.0	16.4
15...	1020	12.0	5300	330	7.2	14.2	7.0	7.9	7.8	26.5	20.6
15...	1022	2.0	5300	333	7.2	14.1	--	8.0	6.6	16.4	14.4
MAY											
19...	1026	40.0	1500	263	7.3	18.3	16.0	7.2	22.8	20.3	32.3
19...	1027	30.0	1500	263	7.3	18.3	--	7.2	21.4	15.8	28.7
19...	1029	20.0	1500	263	7.3	18.3	--	7.2	22.4	15.2	29.4
19...	1031	10.0	1500	263	7.3	18.3	--	7.2	23.6	13.8	30.0
19...	1033	2.0	1500	263	7.3	18.3	--	7.2	22.1	14.6	28.8
19...	1042	12.0	1500	259	7.3	18.1	12.0	7.3	23.1	16.7	30.9
19...	1044	2.0	1500	259	7.3	18.1	--	7.4	24.0	13.1	30.0
JUN											
01...	1725	42.0	1500	249	7.2	23.3	12.0	7.0	40.0	34.2	56.0
01...	1727	30.0	1500	249	7.2	23.4	--	7.0	38.8	15.4	45.7
01...	1729	20.0	1500	249	7.2	23.4	--	7.0	37.8	12.3	43.2
01...	1731	10.0	1500	249	7.2	23.4	--	7.0	32.3	11.6	37.5
01...	1733	2.0	1500	249	7.2	23.4	--	7.0	33.5	11.1	38.4
01...	1735	2.0	5300	251	7.6	23.1	12.0	8.5	67.2	8.2	70.2
04...	0620	2.0	1500	--	--	--	--	--	9.8	9.9	14.4
04...	0622	12.0	1500	--	--	--	--	--	14.1	13.1	20.3
04...	0624	24.0	1500	--	--	--	--	--	15.5	13.9	22.0
04...	0626	36.0	1500	--	--	--	--	--	9.5	25.0	21.5
05...	0200	2.0	1500	--	--	--	--	--	1.8	9.2	6.3
05...	0202	10.0	1500	--	--	--	--	--	18.3	11.2	23.4
05...	0204	18.0	1500	--	--	--	--	--	15.0	14.1	21.6
05...	0206	26.0	1500	--	--	--	--	--	7.5	20.4	17.3
05...	0208	34.0	1500	--	--	--	--	--	4.9	11.4	10.4
05...	0209	37.0	1500	--	--	--	--	--	9.9	33.7	26.1
08...	1125	--	1500	--	--	--	--	--	18.7	7.8	22.2
08...	1200	--	5300	--	--	--	--	--	48.6	13.2	54.3
24...	1100	--	1500	--	--	--	--	--	23.9	8.2	27.5

01655480 POTOMAC R AT INDIAN HEAD, MD ---Cont.
 WATER QUALITY DATA, WATER YEAR 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECHI DISK (1M))	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA FLUORO- METRIC CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUN 24...	1102	---	5300	---	6.7	27.2	---	---	78.2	29.9	91.6
30...	1322	39.0	1500	215	6.7	27.1	19.0	7.1	30.0	17.9	38.3
30...	1324	30.0	1500	215	6.7	27.1	---	7.0	30.8	11.7	36.0
30...	1326	23.0	1500	215	6.7	27.1	---	6.9	29.0	9.9	33.4
30...	1328	15.0	1500	215	6.6	27.1	---	6.9	27.7	9.9	32.1
30...	1330	7.0	1500	214	6.6	27.3	---	7.0	25.9	9.2	30.0
30...	1332	2.0	1500	214	6.7	27.6	---	7.6	29.5	6.4	32.2
30...	1341	7.0	5300	217	8.3	27.2	17.0	9.4	73.8	12.9	79.0
30...	1342	2.0	5300	215	9.1	28.2	---	10.1	57.7	7.3	60.4
JUL 08...	1625	---	1200	---	6.8	26.9	---	5.5	24.9	12.1	30.4
08...	1630	26.0	1200	231	6.7	27.0	24.0	6.0	---	---	---
08...	1632	12.0	1200	230	6.7	27.0	---	7.6	---	---	---
08...	1634	6.0	1200	232	6.9	28.0	---	7.9	---	---	---
08...	1636	2.0	1200	233	7.0	28.2	---	---	---	---	---
08...	1640	---	50000	---	---	---	---	---	38.7	11.1	43.5
08...	1642	---	2340	---	---	---	---	---	27.3	7.1	30.3
08...	1643	38.0	2340	231	6.7	26.9	---	5.8	27.2	12.8	33.1
08...	1644	28.0	3480	230	6.6	27.0	---	5.9	26.8	11.3	31.9
08...	1646	16.0	2340	230	6.6	27.0	---	6.0	26.5	9.9	30.9
08...	1648	7.0	2340	232	6.8	27.9	---	7.3	31.2	7.0	34.1
08...	1650	2.0	2340	233	6.9	28.1	25.0	7.6	27.9	7.2	31.0
08...	1652	---	3480	---	---	---	---	---	60.0	7.7	62.9
08...	1655	9.0	3480	227	7.4	27.6	19.0	8.4	---	---	---
08...	1657	2.0	3480	226	8.1	27.9	---	9.3	---	---	---
08...	1700	9.0	5420	222	7.8	27.3	---	8.5	---	---	---
08...	1701	6.0	5420	222	8.4	27.4	---	8.8	---	---	---
08...	1702	4.0	5420	220	8.4	27.7	18.0	10.5	---	---	---
08...	1704	2.0	5420	219	8.8	28.0	---	11.1	---	---	---
08...	1705	---	5420	---	---	---	---	---	78.3	13.2	83.6
15...	1500	3.0	1200	260	7.5	29.1	---	7.8	38.1	9.4	42.1
20...	1120	---	50000	---	---	---	---	---	52.2	20.1	61.2
20...	1124	---	1200	---	---	---	---	---	46.2	15.1	52.8
20...	1125	28.0	1200	495	7.4	28.1	28.0	6.7	---	---	---
20...	1127	14.0	1200	459	7.3	28.1	---	6.7	---	---	---
20...	1129	1.0	1200	324	7.3	28.2	---	7.2	---	---	---
20...	1130	39.0	2340	619	7.4	28.1	30.0	6.9	46.7	18.0	54.8
20...	1132	28.0	2340	526	7.4	29.1	---	6.7	44.1	20.7	53.5
20...	1134	18.0	2340	478	7.3	28.1	---	6.6	41.7	19.6	50.6
20...	1136	8.0	2340	316	7.2	28.3	---	6.9	42.3	13.9	48.4

APPENDIX A-2

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMP- LING DEPTH (FT)	SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (JM-05)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPY -TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)	(32217)
JUL 20...	1138	1.0	2340	299	7.2	28.4	---	---	---	7.2	42.5	14.8	49.1									
20...	1139	---	2340	---	---	---	---	---	---	---	46.9	12.4	52.2									
20...	1140	11.0	3480	246	7.9	28.2	18.0	---	---	7.8	---	---	---									
20...	1142	1.0	3480	245	8.2	28.3	---	---	---	8.1	---	---	---									
20...	1143	---	3480	---	---	---	---	---	---	---	69.0	16.5	76.0									
20...	1145	7.0	5420	229	9.1	28.3	---	---	---	8.4	---	---	---									
20...	1147	1.0	5420	230	9.2	28.4	---	---	---	8.8	---	---	---									
20...	1150	---	5420	---	---	---	---	---	---	---	108	33.2	123									
20...	1935	---	1200	---	---	---	---	---	---	---	32.1	18.6	40.7									
20...	1940	25.0	1200	247	6.8	28.6	19.0	---	---	6.9	---	---	---									
20...	1942	13.0	1200	247	6.8	28.6	---	---	---	7.0	---	---	---									
20...	1944	1.0	1200	243	6.8	28.8	---	---	---	7.5	---	---	---									
20...	1950	---	5000	---	---	---	---	---	---	---	57.2	22.7	67.4									
20...	1951	---	2340	---	---	---	---	---	---	---	42.6	15.5	49.5									
20...	1952	39.0	2340	243	6.7	28.8	22.0	---	---	7.2	33.3	13.8	39.4									
20...	1954	28.0	2340	243	6.8	28.8	---	---	---	7.2	36.0	14.5	42.5									
20...	1955	18.0	2340	243	7.0	28.9	---	---	---	7.7	38.9	12.6	44.4									
20...	1957	8.0	2340	243	7.0	28.9	---	---	---	7.8	44.8	13.9	50.8									
20...	1959	1.0	2340	243	7.0	29.0	---	---	---	7.9	45.6	14.2	51.9									
20...	2000	10.0	3480	239	8.4	28.8	---	---	---	9.1	---	---	---									
20...	2002	1.0	3480	239	8.4	28.8	---	---	---	9.2	75.7	24.3	86.4									
20...	2003	---	3480	---	---	---	---	---	---	---	---	---	---									
20...	2005	14.0	5420	234	8.9	29.0	---	---	---	9.2	---	---	---									
20...	2007	1.0	5420	234	8.9	29.0	---	---	---	9.2	---	---	---									
20...	2010	---	5420	---	---	---	---	---	---	---	95.8	23.8	106									
21...	0725	---	1200	---	---	---	---	---	---	---	28.7	13.9	35.0									
21...	0730	28.0	1200	278	7.0	28.4	22.0	---	---	6.4	---	---	---									
21...	0732	15.0	1200	242	6.9	28.5	---	---	---	6.5	---	---	---									
21...	0734	1.0	1200	242	6.8	28.5	---	---	---	6.5	---	---	---									
21...	0741	---	2340	---	---	---	---	---	---	---	32.5	20.7	42.1									
21...	0742	39.0	2340	288	6.8	28.4	24.0	---	---	6.4	34.0	29.4	47.8									
21...	0744	28.0	2340	243	7.0	28.5	---	---	---	6.8	40.3	19.2	49.0									
21...	0745	---	5000	---	---	---	---	---	---	---	45.9	22.8	56.3									
21...	0746	18.0	2340	241	6.9	28.6	---	---	---	6.6	30.8	10.0	35.2									
21...	0747	8.0	2340	241	6.8	28.6	---	---	---	6.5	29.7	10.0	34.2									
21...	0749	1.0	2340	241	6.8	28.6	---	---	---	6.5	26.9	13.7	33.2									
21...	0755	11.0	3480	241	7.3	28.3	24.0	---	---	7.2	---	---	---									
21...	0757	1.0	3480	241	7.4	28.3	---	---	---	7.2	---	---	---									
21...	0758	---	3480	---	---	---	---	---	---	---	53.3	23.0	63.8									

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLRO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLURO- METRIC METHOD (UG/L) (32213)	CHLRO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)
21...	0800	12.0	5420	248	8.7	28.2	12.0	6.4	--	--	--
21...	0802	1.0	5420	244	8.7	28.2	--	6.3	--	--	--
21...	0805	--	5420	--	--	--	--	--	92.3	105	--
21...	1920	11.0	5420	254	8.3	28.9	17.0	8.1	--	--	--
21...	1922	5.0	5420	254	8.7	29.2	--	9.3	--	--	--
21...	1924	1.0	5420	254	8.8	29.4	--	9.8	--	--	--
21...	1925	--	5420	--	--	--	--	--	91.6	102	--
21...	1929	--	3480	--	--	--	--	--	68.6	73.9	--
21...	1930	9.0	3480	242	7.8	29.3	20.0	8.4	--	--	--
21...	1932	5.0	3480	243	7.9	29.3	--	8.7	--	--	--
21...	1934	1.0	3480	244	8.1	29.4	--	9.2	--	--	--
21...	1940	--	50000	--	--	--	--	--	55.2	62.9	--
21...	1941	--	2340	--	--	--	--	--	39.1	45.6	--
21...	1942	39.0	2340	241	6.8	29.1	26.0	6.6	14.6	45.6	--
21...	1944	28.0	2340	241	6.7	29.1	--	6.7	15.4	54.3	--
21...	1946	18.0	2340	241	6.7	29.1	--	6.5	15.7	55.4	--
21...	1948	8.0	2340	240	6.5	29.1	--	6.4	15.2	47.9	--
21...	1949	1.0	2340	240	6.7	29.3	--	7.3	13.3	44.5	--
21...	1950	23.0	1200	248	6.6	29.0	26.0	6.7	40.3	44.5	--
21...	1952	11.0	1200	243	6.6	29.1	--	7.0	--	--	--
21...	1954	1.0	1200	243	6.7	29.1	--	7.2	--	--	--
21...	1955	--	1200	--	--	--	--	--	37.5	43.7	--
21...	0755	--	1200	--	--	--	--	--	32.7	41.8	--
22...	0850	25.0	1200	249	6.7	28.4	22.0	6.3	13.8	43.7	--
22...	0852	12.0	1200	251	6.8	28.4	--	6.4	19.7	41.8	--
22...	0854	1.0	1200	249	6.8	28.3	--	6.4	--	--	--
22...	0855	--	2340	--	--	--	--	--	--	--	--
22...	0900	40.0	2340	244	6.7	28.7	24.0	6.0	18.2	41.2	--
22...	0902	28.0	2340	245	6.7	28.6	--	6.1	30.4	48.8	--
22...	0904	18.0	2340	245	6.7	28.6	--	6.2	19.4	41.2	--
22...	0906	8.0	2340	245	6.7	28.6	--	6.2	15.6	39.3	--
22...	0908	1.0	2340	245	6.7	28.6	--	6.3	16.5	39.9	--
22...	0909	--	3480	--	--	--	--	--	35.9	42.1	--
22...	0910	12.0	3480	242	6.9	28.2	19.0	6.6	40.9	49.6	--
22...	0912	1.0	3480	243	6.9	28.2	--	6.6	--	--	--
22...	0915	--	50000	--	--	--	--	--	40.2	47.0	--
22...	0919	--	5420	--	--	--	--	--	86.0	99.0	--
22...	0920	12.0	5420	282	8.4	27.9	--	7.4	15.2	47.0	--
22...	0922	1.0	5420	273	8.5	28.0	--	7.6	29.4	99.0	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLLIA FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLOURO- METRIC METHOD UNCORR. (UG/L) (32217)
JUL 28...	0935	---	1500	---	7.3	---	---	---	32.3	15.0	39.1
28...	0940	39.0	1500	329	7.3	27.7	---	5.9	33.4	19.2	42.3
28...	0942	32.0	1500	327	7.2	27.7	---	5.9	34.4	20.3	43.8
28...	0944	19.0	1500	330	7.1	27.7	---	5.9	33.2	14.2	39.6
28...	0946	13.0	1500	328	7.1	27.7	---	5.9	28.6	12.6	34.3
28...	0948	6.0	1500	325	7.1	27.7	---	6.1	10.4	10.4	37.4
28...	0949	1.6	1500	323	7.1	27.7	---	8.9	34.4	10.2	38.9
28...	0956	10.0	5300	305	9.0	27.7	19.0	8.9	---	---	---
28...	0957	1.6	5300	303	8.9	27.7	---	8.9	---	---	---
28...	0959	---	5300	---	---	---	---	---	16.3	---	105
AUG 06...	1640	---	1200	---	---	---	---	---	37.5	19.7	46.5
06...	1645	24.0	1200	404	6.8	27.5	19.0	6.0	---	---	---
06...	1647	12.0	1200	395	6.9	27.5	---	6.1	---	---	---
06...	1649	1.0	1200	385	6.8	27.5	---	6.2	---	---	---
06...	1650	36.0	2340	395	6.8	27.6	20.0	5.8	41.7	32.2	56.7
06...	1652	28.0	2340	391	6.8	27.6	---	5.9	38.5	17.9	46.6
06...	1654	19.0	2340	388	6.8	27.6	---	5.9	37.5	17.2	45.3
06...	1656	8.0	2340	388	6.8	27.6	---	5.9	37.5	15.0	44.2
06...	1658	1.0	2340	384	6.8	27.5	---	6.0	38.8	14.5	45.2
06...	1659	---	2340	---	---	---	---	---	33.6	19.7	42.7
06...	1705	---	3480	---	---	---	---	---	42.9	17.3	50.7
06...	1710	10.0	3480	357	6.9	27.4	19.0	6.5	---	---	---
06...	1712	1.0	3480	355	6.9	27.4	---	6.6	---	---	---
06...	1720	12.0	5420	411	8.6	27.5	18.0	7.4	---	---	---
06...	1722	6.0	5420	411	8.6	27.5	---	7.4	---	---	---
06...	1724	1.0	5420	412	8.6	27.4	---	7.5	---	---	---
06...	1725	---	5420	---	---	---	---	---	89.6	19.2	97.6
18...	0950	---	50000	---	---	---	---	---	47.8	16.4	55.0
18...	0951	---	1200	---	---	---	---	---	44.5	16.2	51.7
18...	0952	19.0	1200	1010	7.3	26.0	22.0	6.1	---	---	---
18...	0954	10.0	1200	845	7.4	26.2	---	6.3	---	---	---
18...	0956	1.6	1200	774	7.3	26.4	---	6.2	---	---	---
18...	0959	---	2340	---	---	---	---	---	40.9	18.3	49.1
18...	1000	36.0	2340	1079	7.3	26.2	17.0	6.1	40.6	21.9	50.7
18...	1002	32.0	2340	1066	7.3	26.3	---	6.0	41.7	18.7	50.2
18...	1004	19.0	2340	1063	7.3	26.3	---	6.0	38.8	17.1	46.6
18...	1006	13.0	2340	1039	7.3	26.4	---	5.9	42.0	15.7	49.0
18...	1008	6.0	2340	1030	7.3	26.4	---	6.0	37.9	18.5	46.3
18...	1010	1.6	2340	1012	7.3	26.4	---	6.0	39.6	16.7	47.2

01655480 -- POTOMAC R AT INDIAN HEAD, MD --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMP- LJCC- SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLURO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG 18....	1014	--	3480	--	--	--	--	--	55.7	18.2	63.7
18....	1015	13.0	3490	855	7.6	25.9	18.0	6.8	--	--	--
18....	1017	1.6	3480	688	7.4	26.5	--	6.6	--	--	--
18....	1020	10.0	5420	450	8.1	25.7	13.0	7.6	--	--	--
18....	1022	1.6	5420	441	8.3	25.7	--	8.1	--	--	--
18....	1025	--	5420	--	--	--	--	--	71.2	20.5	80.2
24....	2055	--	1200	--	--	--	--	--	37.2	18.1	45.5
24....	2100	23.0	1200	1128	6.5	24.2	--	6.1	--	--	--
24....	2102	17.0	1200	1680	6.6	24.2	--	6.2	--	--	--
24....	2104	10.0	1200	1521	6.6	24.2	--	6.4	--	--	--
24....	2106	4.0	1200	1115	6.7	24.5	--	7.5	--	--	--
24....	2108	1.0	1200	1095	6.7	24.5	--	7.8	--	--	--
24....	2110	--	50000	--	--	--	--	--	52.1	17.8	60.0
24....	2111	--	2340	--	--	--	--	--	40.0	16.4	47.4
24....	2112	40.0	2340	1615	6.7	24.3	--	6.7	42.4	18.3	50.7
24....	2114	20.0	2340	1250	6.7	24.4	--	7.1	--	--	--
24....	2116	10.0	2340	1210	6.7	24.4	--	7.2	41.7	17.3	49.4
24....	2118	4.0	2340	1250	6.6	24.3	--	6.8	39.0	15.6	46.0
24....	2120	1.0	2340	1110	6.5	24.3	--	7.0	39.5	16.1	46.8
24....	2125	--	3480	--	--	--	--	--	52.1	17.8	60.0
24....	2130	8.0	3480	1242	7.4	24.7	--	8.8	--	--	--
24....	2132	4.0	3480	1224	7.3	24.7	--	8.7	--	--	--
24....	2134	1.0	3480	1216	7.3	24.1	--	8.6	--	--	--
24....	2135	10.0	5420	1197	8.4	24.7	--	11.0	--	--	--
24....	2137	4.0	5420	1154	8.3	24.7	--	10.9	--	--	--
24....	2139	1.0	5420	1156	8.3	24.7	--	10.9	--	--	--
24....	2140	--	5420	--	--	--	--	--	93.4	10.9	97.4
25....	0910	--	1200	--	--	--	--	--	35.9	19.4	44.8
25....	0915	24.0	1200	1653	7.0	24.0	20.0	6.4	--	--	--
25....	0917	12.0	1200	1580	7.0	24.0	--	6.5	--	--	--
25....	0919	1.0	1200	1118	7.1	24.0	--	7.2	--	--	--
25....	0925	--	2340	--	--	--	--	--	43.2	16.0	50.3
25....	0930	33.0	2340	1307	7.0	24.0	19.0	6.8	38.1	23.0	48.8
25....	0932	10.0	2340	1190	7.0	24.0	--	6.8	37.8	18.1	46.0
25....	0934	4.0	2340	1120	7.0	24.0	--	7.1	38.5	17.2	46.3
25....	0936	1.0	2340	1110	7.1	24.0	--	7.2	39.6	17.7	47.7
25....	0940	--	3480	--	--	--	--	--	47.5	16.9	55.0
25....	0945	9.0	3480	1177	7.1	23.8	18.0	7.0	--	--	--
25....	0947	1.0	3480	1202	7.1	23.9	--	7.3	--	--	--

APPENDIX A-2

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

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(000003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM ANCE (JMHOS)	(000095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECKI DISK)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)	
AUG 25....	0955	7.0	5420	SPE- CIFIC CON- DUCT- ANCE	1290	8.3	8.3	24.0	24.0	17.0	9.3	9.3	9.3	---	---	---	---	---	---	
25....	0957	1.0	5420		1280	8.4	8.4	24.0	24.0	---	---	---	---	---	---	---	---	---	---	
25....	0958	---	5420		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
25....	1000	---	50000		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
25....	1845	---	5420		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
25....	1850	11.0	5420		1400	8.6	8.6	24.5	24.5	14.0	9.1	9.1	9.1	---	---	---	---	---	---	
25....	1852	4.0	5420		1370	8.7	8.7	24.5	24.5	---	---	---	---	---	---	---	---	---	---	
25....	1854	1.0	5420		1360	8.8	8.8	24.5	24.5	---	---	---	---	---	---	---	---	---	---	
25....	1900	---	50000		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
25....	1901	---	3480		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
25....	1902	11.0	3490		2160	7.5	7.5	24.2	24.2	---	---	---	---	---	---	---	---	---	---	
25....	1904	4.0	3490		1250	8.3	8.3	24.5	24.5	---	---	---	---	---	---	---	---	---	---	
25....	1906	1.0	3490		1130	8.2	8.2	24.5	24.5	---	---	---	---	---	---	---	---	---	---	
25....	1910	26.0	1200		2750	7.2	7.2	24.1	24.1	20.0	6.0	6.0	6.0	---	---	---	---	---	---	
25....	1911	---	1200		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
25....	1912	18.0	1200		2600	7.3	7.3	24.1	24.1	---	---	---	---	---	---	---	---	---	---	
25....	1914	10.0	1200		2250	7.3	7.3	24.2	24.2	---	---	---	---	---	---	---	---	---	---	
25....	1916	4.0	1200		1880	7.7	7.7	24.5	24.5	---	---	---	---	---	---	---	---	---	---	
25....	1918	1.0	1200		1600	7.8	7.8	24.5	24.5	---	---	---	---	---	---	---	---	---	---	
25....	1919	---	2340		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
25....	1920	40.0	2340		3100	7.1	7.1	24.0	24.0	---	---	---	---	---	---	---	---	---	---	
25....	1922	20.0	2340		2570	7.2	7.2	24.0	24.0	---	---	---	---	---	---	---	---	---	---	
25....	1924	10.0	2340		1810	7.4	7.4	24.2	24.2	---	---	---	---	---	---	---	---	---	---	
25....	1926	4.0	2340		1420	8.1	8.1	24.7	24.7	---	---	---	---	---	---	---	---	---	---	
25....	1928	1.0	2340		1340	8.2	8.2	24.7	24.7	---	---	---	---	---	---	---	---	---	---	
26....	0920	---	1200		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
26....	0925	23.0	1200		1875	7.1	7.1	23.9	23.9	17.0	6.2	6.2	6.2	---	---	---	---	---	---	
26....	0927	12.0	1200		1854	7.1	7.1	23.9	23.9	---	---	---	---	---	---	---	---	---	---	
26....	0929	1.0	1200		1660	7.2	7.2	23.8	23.8	---	---	---	---	---	---	---	---	---	---	
26....	0930	36.0	2340		1790	7.1	7.1	23.9	23.9	19.0	6.3	6.3	6.3	---	---	---	---	---	---	
26....	0932	10.0	2340		1684	7.1	7.1	23.8	23.8	---	---	---	---	---	---	---	---	---	---	
26....	0934	4.0	2340		1400	7.2	7.2	23.8	23.8	---	---	---	---	---	---	---	---	---	---	
26....	0936	1.0	2340		1297	7.5	7.5	23.9	23.9	---	---	---	---	---	---	---	---	---	---	
26....	0937	---	2340		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
26....	0940	9.0	3490		1120	7.2	7.2	23.6	23.6	17.0	6.9	6.9	6.9	---	---	---	---	---	---	
26....	0942	1.0	3490		1071	7.4	7.4	23.8	23.8	---	---	---	---	---	---	---	---	---	---	
26....	0945	---	3490		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
26....	0950	9.0	5420		1275	7.9	7.9	23.7	23.7	14.0	7.9	7.9	7.9	---	---	---	---	---	---	
26....	0952	1.0	5420		1250	8.1	8.1	23.9	23.9	---	---	---	---	---	---	---	---	---	---	---

01655480

- POTOMAC R AT INDIAN HEAD, MD

--Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LCC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLDRO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPY -TIN A FLURO- METRIC METHOD (UG/L) (32213)	CHLDRO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)
AUG 26...	0955	--	5420	--	--	--	--	--	65.4	21.0	74.7
26...	1015	--	50000	--	--	--	--	--	47.7	21.2	57.3
26...	1804	--	5420	--	--	--	--	--	75.9	11.0	80.2
26...	1805	10.0	5420	1620	8.4	24.7	15.0	9.2	--	--	--
26...	1807	4.0	5420	1740	8.6	25.0	--	11.0	--	--	--
26...	1809	1.0	5420	1650	8.7	25.2	--	11.5	--	--	--
26...	1814	--	3490	--	--	--	--	--	62.2	14.1	68.1
26...	1815	12.0	3480	4400	7.2	24.4	14.0	5.8	--	--	--
26...	1816	4.0	3480	2110	8.4	25.1	--	10.4	--	--	--
26...	1818	1.0	3480	2060	8.4	25.1	--	10.4	--	--	--
26...	1819	--	1200	--	--	--	--	--	45.0	17.3	52.7
26...	1820	26.0	1200	4440	7.2	24.4	18.0	6.1	--	--	--
26...	1822	20.0	1200	4440	7.2	24.4	--	6.1	--	--	--
26...	1824	10.0	1200	4160	8.2	25.2	--	9.3	--	--	--
26...	1826	4.0	1200	2850	8.4	25.2	--	10.4	--	--	--
26...	1828	1.0	1200	2790	8.5	25.4	--	11.1	--	--	--
26...	1835	--	50000	--	--	--	--	--	55.3	15.5	62.1
26...	1837	43.0	2340	4420	7.2	24.4	18.0	6.2	28.9	18.8	37.6
26...	1839	20.0	2340	4070	7.4	24.6	--	7.4	--	--	--
26...	1841	10.0	2340	3450	7.5	24.5	--	7.1	41.6	19.8	50.6
26...	1843	4.0	2340	2790	8.5	25.4	--	10.7	59.5	12.8	64.8
26...	1845	1.0	2340	2780	8.5	25.4	--	10.8	61.6	13.1	67.1
26...	1850	--	2340	--	--	--	--	--	41.0	17.0	48.7
SEP 10...	0955	4.0	2340	1727	6.8	24.2	--	5.5	--	--	--
10...	0956	--	2340	--	--	--	--	--	34.8	19.0	43.5
10...	1000	--	5420	--	--	--	--	--	52.7	19.5	61.4
16...	0830	3.0	2340	1853	6.7	24.0	--	6.0	--	--	--
16...	0831	--	2340	--	--	--	--	--	38.9	25.3	50.6
16...	0835	3.0	5420	1778	6.9	23.8	--	6.9	--	--	--
16...	0836	--	5420	--	--	--	--	--	54.4	24.4	65.4
22...	0740	36.0	1500	1030	7.3	21.4	18.0	6.6	27.8	33.8	43.8
22...	0741	19.0	1500	1030	7.3	21.5	--	6.5	26.4	33.4	42.2
22...	0743	22.0	1500	1020	7.3	21.5	--	6.6	25.8	27.3	38.7
22...	0746	13.0	1500	1020	7.3	21.5	--	6.5	26.1	25.0	37.9
22...	0748	6.0	1500	1010	7.3	21.5	--	6.5	25.0	22.3	35.5
22...	0750	1.6	1500	1000	7.3	21.5	--	6.6	25.6	21.4	35.6
22...	0805	6.0	5300	1220	7.5	21.3	17.0	7.6	40.0	24.7	51.4
22...	0807	1.6	5300	1210	7.5	21.3	--	7.6	37.8	24.6	49.2

APPENDIX A-2

01558710 - POTOMAC RIVER AT QUANTICO, VA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (C)	TRANS- PAR- ENCY (SECCHI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC CORR. (JG/L)	PHEOPHY- TIN A FLURO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
02	1840	--	2300	--	--	--	--	--	27.2	12.8	33.0
02	1845	21.0	2300	4680	7.2	22.1	--	7.1	--	--	--
02	1847	12.0	2300	4610	7.3	22.3	--	7.1	--	--	--
02	1848	1.0	2300	4590	7.3	22.1	--	7.1	--	--	--
02	1850	--	50000	--	--	--	--	--	22.4	12.7	28.2
02	1851	--	4500	--	--	--	--	--	19.6	11.2	23.8
02	1852	21.0	4500	4950	7.1	21.9	--	6.1	--	--	--
02	1853	12.0	4500	4770	7.2	21.9	--	6.3	--	--	--
02	1854	1.0	4500	4070	7.2	22.0	--	6.7	--	--	--
02	1855	29.0	6000	4980	6.9	21.8	--	5.3	13.2	26.4	25.8
02	1856	15.0	6000	4910	7.0	21.9	--	5.5	13.6	12.9	19.6
02	1857	6.0	6000	3610	7.3	22.2	--	6.9	22.9	13.4	29.1
02	1858	1.0	6000	3500	7.3	22.3	23.0	6.9	21.3	12.1	26.8
03	0725	29.0	6000	5400	6.9	21.3	--	6.9	23.8	19.4	32.8
03	0726	15.0	6000	5040	6.8	21.3	--	6.9	19.5	11.4	24.8
03	0727	6.0	6000	3690	6.8	20.9	--	6.7	19.2	12.9	25.2
03	0728	1.0	6000	3620	6.8	20.8	--	6.6	18.5	11.4	23.7
03	0730	21.0	4500	4830	6.8	21.1	22.0	6.9	--	--	--
03	0731	12.0	4500	4080	6.8	21.0	--	6.8	--	--	--
03	0732	1.0	4500	3450	6.8	20.7	--	6.9	--	--	--
03	0735	--	4500	--	--	--	--	--	19.6	13.1	25.7
03	0745	19.0	2300	4200	6.8	20.9	--	6.8	--	--	--
03	0746	11.0	2300	4100	6.8	20.9	--	6.9	--	--	--
03	0747	1.0	2300	3900	6.9	20.7	--	6.9	--	--	--
03	0750	--	2300	--	--	--	--	--	20.0	14.3	26.7
03	0755	--	50000	--	--	--	--	--	21.8	12.1	27.3
09	1400	25.0	6900	3450	7.4	18.9	16.0	8.1	--	--	--
09	1402	14.0	6900	3390	7.6	19.0	--	8.9	--	--	--
09	1404	3.0	6900	2730	7.9	19.5	--	10.4	--	--	--
09	1415	--	6900	--	--	--	--	--	19.8	10.0	23.3
16	0940	3.0	6000	3210	7.7	16.0	--	9.1	41.0	15.1	47.8
16	0948	14.0	6000	3500	7.3	16.1	--	8.1	--	--	--
16	0950	25.0	6000	3740	7.3	16.2	--	8.0	24.1	18.5	32.7
21	1338	1.0	6000	3450	7.7	17.4	--	8.0	34.4	15.9	41.7
21	1355	6.0	6000	3480	7.5	17.3	--	7.5	29.0	19.5	38.0
21	1359	16.0	6000	3640	7.4	17.3	--	7.3	25.5	16.2	33.0
21	1400	29.0	6000	3670	7.5	17.4	24.0	7.4	26.4	17.3	34.4
21	1410	--	6000	--	--	--	--	--	29.5	26.1	41.8
30	1600	3.0	6000	3020	7.5	12.8	--	9.1	33.4	20.4	42.8

01658710 - POTOMAC RIVER AT QUANTICO, VA. -- Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS/ (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECKI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLLI A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLOURO- METRIC METHOD UNCORR. (UG/L) (32217)
OCT 30...	1604	11.0	6000	3050	7.4	12.8	---	9.0	---	---	---
30...	1606	16.0	6000	3230	7.3	12.6	---	8.6	---	---	---
30...	1608	20.0	6000	4010	7.1	12.7	23.0	8.0	---	---	---
30...	1609	24.0	6000	5000	7.0	12.7	---	7.9	---	---	---
30...	1610	29.0	6000	---	---	---	---	---	13.7	21.6	24.0
NOV 04...	0915	17.0	2300	4320	7.4	11.6	---	8.8	---	---	---
04...	0916	10.0	2300	4200	7.4	11.5	---	8.8	---	---	---
04...	0917	3.0	2300	4220	7.4	11.5	---	8.8	---	---	---
04...	0925	17.0	4500	4230	7.5	11.6	---	8.9	---	---	---
04...	0926	10.0	4500	3890	7.5	11.5	---	8.9	---	---	---
04...	0927	3.0	4500	3750	7.5	11.4	---	8.9	---	---	---
04...	0931	27.0	6000	3830	7.5	12.5	---	8.6	---	---	---
04...	0932	15.0	6000	3870	7.5	11.7	---	9.0	---	---	---
04...	0933	3.0	6000	3650	7.6	11.4	---	9.0	---	---	---
04...	0945	3.0	5000	---	---	---	---	---	32.0	8.5	35.7
04...	0950	25.0	5000	---	---	---	---	---	24.0	15.0	30.9
04...	1030	3.0	6000	---	---	---	---	---	18.0	8.0	21.6
04...	1045	27.0	6000	---	---	---	---	---	25.5	13.5	31.7
10...	1204	3.0	6000	3450	7.2	12.0	---	8.8	20.1	13.2	26.2
10...	1205	27.0	6000	3850	7.1	11.8	---	8.5	---	---	---
12...	1900	3.0	6000	4110	7.1	11.8	30.0	8.4	19.4	25.6	31.5
12...	1902	15.0	6000	2840	7.7	9.3	---	9.4	23.8	14.0	30.2
12...	1905	26.0	6000	2920	7.7	9.2	---	9.5	25.0	24.2	36.4
13...	0706	25.0	6000	4590	7.5	9.0	---	9.7	---	---	---
13...	0707	23.0	6000	4250	7.5	9.0	---	9.7	---	---	---
13...	0708	20.0	6000	3750	7.6	9.0	---	9.9	---	---	---
13...	0709	15.0	6000	3660	7.6	8.9	---	9.8	---	---	---
13...	0710	10.0	6000	3030	7.6	8.6	---	9.8	---	---	---
13...	0711	5.0	6000	2770	7.6	8.4	---	9.9	---	---	---
13...	0715	3.0	6000	2630	7.6	8.4	---	9.9	24.0	11.8	29.4
13...	0720	27.0	6000	4720	7.5	9.0	38.0	9.7	17.4	10.9	22.5
18...	0919	1.0	6000	5500	7.7	8.6	---	10.4	21.5	8.8	25.5
18...	0921	6.0	6000	5600	7.7	8.6	---	10.2	19.5	8.5	23.4
18...	0922	15.0	6000	6200	7.6	8.8	---	9.9	18.5	9.8	23.0
18...	0925	27.0	6000	5600	7.5	8.9	36.0	9.9	16.1	13.1	22.2
25...	1140	2.0	6000	6200	7.4	7.6	---	---	17.1	5.50	19.5
25...	1144	15.0	6000	6630	7.4	7.4	---	---	---	---	---
25...	1145	27.0	6000	6990	7.4	7.4	23.0	---	15.4	7.5	18.9

01558710 - POTOMAC RIVER AT QUANTICO, VA. ---Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMP- SECTION (FT FM BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR, (UG/L)	PHEOPHY -TIN A FLURO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
DEC 02...	1200	27.0	6000	3400	7.7	6.5	36.0	11.3	26.9	7.20	30.0
DEC 02...	1205	15.0	6000	2890	7.7	6.5	---	11.2	---	---	---
DEC 02...	1210	3.0	6000	2580	7.8	6.7	---	11.5	21.5	4.8	23.5
DEC 08...	1010	3.0	6000	4830	8.1	6.0	---	11.6	39.2	5.7	41.4
DEC 08...	1012	15.0	6000	8440	8.0	5.9	---	11.4	---	---	---
DEC 08...	1015	27.0	6000	8830	8.0	5.9	40.0	11.5	40.9	10.3	45.2
DEC 15...	1705	2.0	6000	3620	8.2	5.7	---	11.8	29.1	11.3	34.2
DEC 15...	1706	5.0	6000	3640	8.2	5.7	---	11.8	29.0	10.6	33.8
DEC 15...	1708	10.0	6000	3670	8.2	5.7	---	11.8	29.0	12.6	34.8
DEC 15...	1709	20.0	6000	3950	8.2	5.7	---	11.8	32.7	13.0	38.5
DEC 15...	1710	27.0	6000	4330	8.2	5.7	---	11.8	36.3	14.8	43.0
DEC 16...	1015	27.0	6000	4470	7.9	5.4	29.0	11.6	36.2	21.7	46.2
DEC 16...	1016	20.0	6000	3900	8.0	5.3	---	11.5	32.2	17.8	40.4
DEC 16...	1017	10.0	6000	3620	8.0	5.2	---	11.6	29.4	14.0	35.8
DEC 16...	1018	6.0	6000	3500	8.0	5.2	---	11.6	26.8	11.8	32.1
DEC 16...	1019	1.0	6000	3390	8.0	5.3	---	11.7	25.6	10.5	30.3
DEC 29...	1215	3.0	6900	5240	8.2	.5	---	12.6	14.6	8.2	18.3
DEC 29...	1220	15.0	6900	9540	8.2	.5	---	12.2	---	---	---
DEC 29...	1230	29.0	6900	9620	8.2	.7	35.0	12.0	19.5	11.4	24.8
JAN 15...	1110	3.0	6900	7970	7.6	.2	---	11.9	9.8	2.6	10.9
JAN 15...	1115	17.0	6900	7920	7.6	.2	---	11.5	---	---	---
JAN 15...	1120	24.0	6900	7950	7.6	.1	66.0	11.4	10.5	1.9	11.2
JAN 23...	1850	24.0	6900	8390	7.8	.0	---	12.3	15.7	5.7	18.2
JAN 23...	1855	11.0	6900	8370	7.8	.0	---	12.2	---	---	---
JAN 23...	1900	3.0	6900	8440	7.8	.0	---	12.2	14.5	3.5	16.0
JAN 29...	1120	3.0	6000	8250	7.8	.5	---	13.4	22.6	2.9	23.7
JAN 29...	1125	14.0	6000	10280	7.6	.4	---	13.1	---	---	---
JAN 29...	1130	25.0	6000	11490	7.5	.5	58.0	13.2	21.4	4.20	23.1
FEB 03...	1315	27.0	6000	9700	7.8	1.0	---	12.7	15.7	4.2	17.5
FEB 03...	1316	20.0	6000	8200	7.8	.9	---	12.5	20.8	5.4	23.1
FEB 03...	1317	15.0	6000	7000	7.8	.8	---	12.4	17.5	6.4	20.4
FEB 03...	1318	10.0	6000	6100	7.8	.8	---	12.5	25.1	5.8	27.5
FEB 03...	1319	3.0	6000	5700	7.8	.9	---	12.8	24.3	4.2	26.0
FEB 04...	1250	2.0	6000	6190	8.1	.7	---	11.5	29.8	3.7	31.1
FEB 04...	1252	7.0	6000	6200	8.1	.7	---	11.4	29.5	4.7	31.3
FEB 04...	1253	12.0	6000	6470	8.1	.8	---	11.3	27.3	8.0	30.8
FEB 04...	1254	20.0	6000	7790	8.0	.9	---	11.3	23.9	8.4	27.6
FEB 04...	1255	30.0	6000	7940	8.0	.9	38.0	11.4	26.2	6.6	29.1

01658710 - POTOMAC RIVER AT QUANTICO, VA. ---Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LCC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
FER	1650	26.0	6000	7670	--	--	--	--	32.8	6.0	35.3
11.00	1651	20.0	6000	--	--	--	--	--	29.8	5.3	31.9
11.00	1653	12.0	6000	--	--	--	--	--	36.7	3.3	37.8
11.00	1654	7.0	6000	--	--	--	--	--	37.5	4.2	39.0
11.00	1655	2.0	6000	7600	--	--	--	--	37.2	3.2	38.3
17.00	0925	25.0	6000	5400	7.6	2.8	30.0	12.3	--	--	--
17.00	0926	15.0	6000	5100	7.6	2.7	--	12.3	--	--	--
17.00	0927	2.0	6000	3470	7.6	2.9	--	11.9	--	--	--
17.00	0935	25.0	6000	5400	7.6	2.8	30.0	12.3	--	--	--
17.00	1120	26.0	6000	4570	7.5	2.6	24.0	12.2	27.5	7.6	30.8
17.00	1121	20.0	6000	4440	7.6	2.5	--	12.1	28.1	6.2	30.8
17.00	1122	13.0	6000	4280	7.6	2.6	--	12.1	28.5	4.5	30.2
17.00	1123	7.0	6000	3400	7.6	2.7	--	12.0	28.0	5.0	30.0
17.00	1124	2.0	6000	3000	7.6	2.9	--	11.8	22.2	5.5	24.6
23.00	1615	3.0	6000	1173	7.1	6.6	--	10.1	11.8	9.7	16.4
23.00	1618	13.0	6000	1550	7.2	6.4	--	10.1	--	--	--
23.00	1625	26.0	6000	1625	7.2	6.5	18.0	10.1	13.8	12.0	19.4
24.00	1521	27.0	6000	965	7.2	6.8	12.0	8.8	10.9	15.3	18.2
24.00	1522	20.0	6000	968	7.2	6.8	--	8.9	11.1	13.3	17.4
24.00	1523	12.0	6000	870	7.2	6.8	--	8.9	9.9	11.0	15.1
24.00	1524	7.0	6000	850	7.2	6.8	--	8.9	9.7	9.8	14.3
24.00	1526	2.0	6000	830	7.2	6.8	--	8.9	9.2	7.3	12.6
25.00	1550	25.0	6000	--	--	--	--	--	11.6	15.8	19.1
25.00	1600	3.0	6000	--	--	--	--	--	11.9	14.2	18.6
27.00	1340	3.0	6000	353	7.4	7.3	--	10.7	2.0	10.0	6.8
27.00	1344	7.0	6000	355	7.3	7.3	--	10.6	3.4	10.1	8.3
27.00	1347	12.0	6000	358	7.3	7.3	--	10.6	2.6	9.8	7.4
27.00	1349	20.0	6000	365	7.3	7.2	--	10.7	3.2	10.7	8.3
27.00	1350	28.0	6000	370	7.3	7.3	--	10.6	3.3	10.3	8.3
MAR	1936	26.0	6000	2870	7.4	7.3	--	9.8	4.6	9.2	9.0
03.00	1937	18.0	6000	2500	7.5	7.3	--	9.9	4.3	8.2	8.2
03.00	1938	10.0	6000	2100	7.5	7.4	--	10.1	5.2	7.5	8.8
03.00	1939	3.0	6000	2050	7.5	7.4	--	10.1	5.1	6.3	8.1
04.00	0703	27.0	6000	2310	7.5	7.0	12.0	10.4	6.0	12.1	11.8
04.00	0704	20.0	6000	2320	7.6	7.1	--	10.4	7.3	14.4	16.2
04.00	0705	10.0	6000	2270	7.6	7.1	--	10.4	5.9	11.8	11.6
04.00	0706	2.0	6000	2050	7.6	7.0	--	10.4	6.0	8.8	10.2
11.00	1410	25.0	6000	1810	7.3	6.3	6.0	10.3	7.8	29.7	22.1
11.00	1411	12.0	6000	1240	7.3	6.4	--	10.4	--	--	--

01658710 - POTOMAC RIVER AT QUANTICO, VA. --Cont.
 WATER QUALITY DATA- WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH- (FT)	SAMPLE LOC- TION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L)	PHEOPY FLURO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
MAR											
11...	1412	7.0	6000	1130	7.3	6.6	---	10.3	---	---	---
11...	1413	3.0	6000	1190	7.4	6.8	---	10.4	4.5	11.3	10.0
11...	1415	---	5000	*	---	---	---	---	5.4	17.3	13.8
18...	0850	29.0	6000	1988	7.4	5.5	6.0	9.9	6.1	17.6	14.6
18...	0851	22.0	6000	1960	7.4	5.4	---	9.9	6.5	16.9	14.6
18...	0852	15.0	6000	1650	7.5	5.4	---	9.9	5.9	15.4	13.3
18...	0853	8.0	6000	950	7.5	5.5	---	9.9	5.5	14.7	12.5
18...	0855	2.0	6000	722	7.5	5.4	---	9.9	5.1	15.2	12.4
24...	1315	31.0	6000	3650	7.2	5.6	12.0	9.9	5.6	18.2	14.4
24...	1316	22.0	6000	3210	7.4	5.6	---	9.9	---	---	---
24...	1317	15.0	6000	2940	7.4	5.6	---	9.9	3.9	9.1	8.3
24...	1318	8.0	6000	2620	7.5	5.9	---	10.1	---	---	---
24...	1319	2.0	6000	2240	7.5	6.3	---	10.1	4.3	6.9	7.6
APR											
01...	1401	26.0	6000	2170	7.4	9.5	18.0	9.5	---	---	---
01...	1402	14.0	6000	2100	7.4	9.6	---	9.5	---	---	---
01...	1403	3.0	6000	1940	7.4	9.9	---	9.9	---	---	---
01...	1500	25.0	6000	4200	7.2	9.0	---	11.6	9.2	24.6	21.0
01...	1502	15.0	6000	2530	7.3	9.7	---	11.3	9.0	10.8	14.1
01...	1504	2.0	6000	2330	7.4	10.3	---	11.2	8.2	5.4	10.7
09...	1315	---	6000	---	---	---	---	---	11.0	18.2	19.7
09...	1316	24.0	6000	1760	7.3	12.7	18.0	8.9	10.5	27.1	23.5
09...	1317	22.0	6000	1750	7.4	12.7	---	8.8	---	---	---
09...	1318	15.0	6000	1620	7.4	12.8	---	8.9	9.6	16.3	17.3
09...	1319	8.0	6000	1360	7.4	13.3	---	8.9	---	---	---
09...	1320	3.0	6000	1330	7.4	13.9	---	8.9	10.7	15.8	18.2
15...	0855	24.0	6000	412	7.1	13.9	6.0	---	---	---	---
15...	0856	12.0	6000	407	7.1	13.9	---	---	---	---	---
15...	0857	3.0	6000	407	7.2	13.9	---	---	---	---	---
15...	1050	---	6000	---	---	---	---	---	8.7	27.9	22.1
15...	1055	27.0	6000	402	7.2	14.3	6.0	8.0	9.1	31.6	24.3
15...	1056	18.0	6000	416	7.2	14.4	---	8.1	10.4	23.4	21.6
15...	1057	9.0	6000	430	7.2	14.4	---	8.3	9.5	21.4	19.8
15...	1058	2.0	6000	457	7.2	14.4	---	8.5	11.2	19.4	20.5
16...	0920	---	6000	---	---	---	---	---	10.5	19.7	19.9
16...	0930	25.0	6000	399	7.3	13.5	---	---	14.5	29.6	28.7
16...	0931	15.0	6000	383	7.3	13.6	---	---	11.5	19.4	20.8
16...	0933	3.0	6000	362	7.3	13.7	---	---	8.9	15.1	16.1
17...	0915	23.0	6000	326	6.9	14.1	12.0	8.0	---	---	---
17...	0916	13.0	6000	325	7.0	14.2	---	7.9	---	---	---

01658710 -- POTOMAC RIVER AT QUANTICO, VA. --Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LINES DEPTH (FT)	(000003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(000009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	(000095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK)	(IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL/A METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY- FLURO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)	(32217)
APR 17...	0917	3.0		6000		323		7.0		14.2					7.9							
17...	0925	--		6000		--		--		--					--		13.7		25.0			25.7
22...	1300	--		6000		--		--		--					--		13.2		22.8			24.0
22...	1305	24.0		6000		258		7.4		14.8		12.0			7.7	12.8		31.9			28.1	
22...	1307	15.0		6000		258		7.5		14.6					7.8	11.7		18.9			20.7	
22...	1309	3.0		5000		256		7.5		14.8					7.9	12.2		12.9			18.3	
29...	1250	24.0		6000		1480		7.3		15.9		16.0			7.4	11.7		15.6			19.1	
29...	1251	20.0		6000		1470		7.3		15.0					7.3	11.8		14.8			18.8	
29...	1252	10.0		6000		845		7.3		16.7					8.1	17.4		9.6			21.8	
29...	1253	2.0		6000		743		7.3		16.9					8.2	19.1		9.9			23.7	
29...	1300	--		6000		--		--		--					--	15.4		13.9			21.9	
MAY 04...	0928	23.0		6000		1771		7.4		15.6		10.0			8.7							
04...	0929	10.0		6000		716		7.5		15.7					8.7							
04...	0930	3.0		6000		582		7.7		16.1					9.5							
04...	0935	--		6000		--		--		--					--							
12...	1455	26.0		6000		903		7.6		17.4		22.0			8.6	31.1		15.8			38.3	
12...	1456	20.0		6000		927		7.6		17.4					8.5	30.0		21.0			39.8	
12...	1457	10.0		6000		945		7.6		17.4					8.6	37.5		22.6			47.9	
12...	1458	2.0		5000		766		8.0		18.0					8.6	34.0		19.3			42.9	
19...	1115	29.0		6000		297		7.7		17.9		12.0			9.5	41.5		16.1			48.8	
19...	1116	18.0		6000		296		7.7		18.0					8.5	71.6		35.8			87.9	
19...	1117	10.0		5000		296		7.8		18.0					8.6	66.4		23.0			76.6	
19...	1118	2.0		6000		296		7.8		18.0					8.7	72.4		17.1			79.6	
27...	1550	27.0		6000		270		8.2		21.2		20.0			9.0	69.1		23.6			79.6	
27...	1553	15.0		6000		264		8.2		21.3					9.1							
27...	1555	3.0		6000		257		8.8		21.7					10.2							
28...	1250	27.0		6000		267		7.8		21.5		18.0			8.8	67.7		41.9			87.1	
28...	1251	20.0		6000		257		7.9		21.6					8.9	61.0		21.4			70.5	
28...	1252	10.0		6000		256		8.0		21.6					9.0	66.0		11.9			70.8	
28...	1253	2.0		6000		256		8.2		21.8					9.7	61.9		12.5			67.0	
28...	1300	--		6000		--		--		--					--	60.8		21.9			70.5	
JUN 01...	1655	30.0		6000		254		7.6		22.7					7.4	44.4		44.2			65.2	
01...	1656	20.0		6000		254		7.6		22.9					7.4	38.7		23.6			49.6	
01...	1657	10.0		6000		254		7.6		22.9					7.5	39.1		18.3			47.4	
01...	1658	2.0		6000		254		7.6		22.9					7.5	42.4		17.9			50.5	
08...	1500	2.0		6000		--		--		--					--	30.3		9.5			34.4	
08...	1502	7.0		6000		--		--		--					--	29.1		15.0			35.9	
08...	1504	14.0		6000		--		--		--					--	23.1		12.9			29.0	

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LINGS DEPTH (FT)	(000003)	SAMPLE LDC- ATION, CROSS SECTION (FT FM L BANK)	(000009)	SPE- CIFIC CON- DUCT- ANCE (JMHS)	(000095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK) (LN)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
JUN																				
08...	1506	21.0		6000											22.2		19.0		31.1	
08...	1508	24.0		6000											25.5		32.5		40.9	
08...	1510			6000											24.9		21.8		35.1	
11...	1722	2.0		6000											42.7		7.6		45.8	
11...	1724	10.0		6000											46.9		10.1		51.1	
11...	1726	20.0		6000											27.5		16.3		35.0	
11...	1728	24.0		6000											35.4		13.4		41.4	
15...	1005	25.0		6000		230		6.4		26.0	19.0		7.0		26.4		31.7		41.4	
15...	1006	19.0		6000		230		6.4		26.1		7.1			27.3		19.6		36.4	
15...	1006	19.0		6000		230		6.4		26.2		7.2			34.7		26.7		38.5	
15...	1007	12.0		5000		230		6.5		26.2		7.3			31.7		14.0		38.1	
15...	1008	7.0		5000		230		6.8		26.4		8.0			32.1		12.0		37.5	
15...	1009	4.0		6000		230		6.9		26.7		8.3			27.7		8.6		31.4	
15...	1011	2.0		5000		230		8.0		27.2	18.0	8.4			56.4		22.8		66.6	
30...	1420	29.0		5000		217		8.1		27.2		8.8			60.6		12.1		65.6	
30...	1421	23.0		6000		214		8.1		27.2		8.9			64.1		13.2		69.6	
30...	1422	15.0		6000		213		8.2		27.2		9.5			67.9		7.00		70.2	
30...	1423	7.0		6000		212		8.3		27.5		9.4			64.1		10.5		68.3	
30...	1424	2.0		6000		212		8.3		27.4					64.1					
JUL																				
08...	1515	26.0		6000		1270		7.1		26.6	19.0	6.7			30.6		24.4		42.0	
08...	1516	22.0		6000		1260		7.1		26.6		6.6			31.0		20.8		40.7	
08...	1517	15.0		6000		915		7.2		26.6		6.8			34.8		13.7		40.9	
08...	1518	7.0		5000		579		7.6		27.2		7.9			39.8		12.4		45.3	
08...	1519	2.0		5000		528		8.1		27.9		9.0			47.8		12.2		53.0	
08...	1520			5000											45.5		14.2		51.7	
08...	1525			6000											32.3		15.2		39.2	
08...	1545	25.0		2300		797		7.5		27.1	17.0	7.5			7.5					
08...	1546	12.0		2300		757		7.7		27.2		7.8								
08...	1547	7.0		2300		690		7.8		27.2		8.3								
08...	1548	4.0		2300		531		8.1		27.5		9.0			60.8		8.8		64.1	
08...	1549	2.0		2300		508		8.4		27.9		9.8								
04...	1550			2300																
15...	1456	24.0		5000		849		8.0		28.3	24.0				51.9		13.4		57.7	
15...	1457	19.0		6000		859		8.0		28.3		6.7			53.7		22.5		63.9	
15...	1458	13.0		6000		795		8.0		28.3		6.8			49.5		18.8		57.9	
15...	1459	7.0		6000		774		8.1		28.5		6.9			44.2		18.2		52.4	
15...	1500	2.0		6000		565		8.9		29.1		7.3			49.1		12.1		54.3	
20...	1020			2300											65.6		7.1		69.1	
20...	1025	21.0		2300		4890		7.7		28.3	20.0				44.5		13.0		50.2	
20...	1026	10.0		2300		4860		7.8		28.4		7.6								

01658710 - POTOMAC RIVER AT QUANTICO, VA. ---Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECHI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A METRIC CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD (UG/L)
20...	1027	1.0	2300	4830	7.8	28.4	---	7.6	---	---	---
20...	1030	---	5000	---	---	---	---	---	---	---	---
20...	1033	---	6000	---	---	---	---	---	---	---	---
20...	1035	29.0	6000	4150	7.3	27.8	23.0	6.3	37.0	14.9	43.7
20...	1036	22.0	6000	4040	7.3	27.8	---	6.2	33.3	15.5	40.3
20...	1037	15.0	6000	3720	7.3	27.8	---	6.1	28.0	18.3	36.5
20...	1038	7.0	6000	3650	7.3	27.8	---	6.2	28.2	18.2	36.6
20...	1039	1.0	6000	3600	7.5	27.9	---	6.8	27.7	17.2	35.7
20...	2045	---	2300	---	---	---	---	---	31.1	17.0	38.9
20...	2050	19.0	2300	4330	7.7	28.5	---	7.7	35.2	14.5	41.8
20...	2051	10.0	2300	4340	7.8	28.5	---	7.7	40.9	18.3	49.1
20...	2052	1.0	2300	4310	7.8	28.5	---	7.7	---	---	---
20...	2100	---	5000	---	---	---	---	---	---	---	---
20...	2103	---	6000	---	---	---	---	---	---	---	---
20...	2105	29.0	6000	4090	7.6	28.3	---	7.0	39.2	17.6	47.1
20...	2106	22.0	6000	4070	7.6	28.4	---	7.4	40.6	16.7	48.1
20...	2107	15.0	6000	4000	7.7	28.4	---	7.4	38.9	51.5	63.3
20...	2108	7.0	6000	3870	7.8	28.5	---	7.6	37.9	17.6	46.8
20...	2109	1.0	6000	3570	7.9	28.5	---	7.9	45.7	14.2	44.2
21...	0645	---	6000	---	---	---	---	---	50.2	18.5	58.5
21...	0650	29.0	6000	2920	7.5	27.9	22.0	6.8	42.2	17.3	50.0
21...	0651	22.0	6000	2750	7.5	28.1	---	6.7	38.0	34.2	54.1
21...	0652	15.0	6000	2700	7.5	28.1	---	6.6	38.9	15.8	46.0
21...	0653	7.0	6000	2540	7.5	28.1	---	6.6	36.4	16.5	43.8
21...	0654	1.0	6000	2220	7.6	27.9	---	6.7	35.2	16.5	42.7
21...	0700	---	2300	---	---	---	---	6.7	36.3	14.0	42.6
21...	0705	20.0	2300	4100	7.6	28.2	20.0	6.7	37.5	18.0	45.7
21...	0706	10.0	2300	3550	7.5	28.0	---	6.5	---	---	---
21...	0707	1.0	2300	3444	7.5	27.9	---	6.5	---	---	---
21...	0710	---	5000	---	---	---	---	---	---	---	---
21...	2030	---	5000	---	---	---	---	---	---	---	---
21...	2145	---	2300	---	---	---	---	---	---	---	---
21...	2200	17.0	2300	3800	7.4	28.4	---	6.2	36.3	19.5	45.2
21...	2201	8.0	2300	3500	7.6	28.5	---	7.2	46.5	18.5	54.9
21...	2202	1.0	2300	3300	8.1	28.6	---	8.2	38.0	19.4	46.9
21...	2205	---	6000	---	---	---	---	---	---	---	---
21...	2210	27.0	6000	3050	7.5	28.5	---	6.1	48.5	18.2	54.6
21...	2211	22.0	6000	3050	7.4	28.5	---	6.0	43.1	30.0	57.0
21...	2212	14.0	6000	2900	8.0	28.8	---	7.6	37.3	24.0	48.4
21...	2212	---	---	---	---	---	---	---	49.1	15.3	55.9

01658710 -- POTOMAC RIVER AT QUANTICO, VA. ---Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LDC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLURO- METRIC METHOD (UG/L)	CHLORO- PHYLLA FLOURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUL											
21...	2213	7.00	6000	2380	8.0	28.6	--	7.5	49.3	12.5	54.6
21...	2214	1.00	6000	1850	8.4	28.7	--	9.3	63.5	9.1	67.0
22...	1000	--	2300	--	--	--	--	--	41.0	18.7	49.5
22...	1002	21.0	2300	3370	7.5	28.0	--	6.6	--	--	--
22...	1003	10.0	2300	3350	7.5	28.0	--	6.7	--	--	--
22...	1004	1.0	2300	3350	7.6	28.0	--	6.8	--	--	--
22...	1010	--	5000	--	--	--	--	--	39.6	19.5	48.5
22...	1012	--	5000	--	--	--	--	--	32.9	23.9	44.0
22...	1015	28.0	6000	2930	7.4	28.0	18.0	6.2	32.2	31.9	47.2
22...	1016	22.0	6000	2920	7.4	28.0	--	6.3	36.0	24.1	47.1
22...	1017	15.0	6000	2840	7.4	28.0	--	6.3	31.8	20.1	41.1
22...	1018	7.0	5000	2750	7.4	28.0	--	6.3	40.7	15.6	47.7
22...	1019	1.0	6000	2750	7.4	28.0	--	6.4	31.6	36.1	48.6
28...	0847	28.0	6000	4150	7.3	27.6	22.0	5.4	36.6	21.3	46.4
28...	0848	19.0	5000	3080	7.5	27.5	--	6.2	39.2	20.1	48.4
28...	0849	13.0	6000	2920	7.6	27.5	--	6.5	39.4	17.9	47.5
28...	0850	6.0	6000	2890	7.6	27.6	--	7.4	47.7	13.6	53.6
28...	0851	1.5	6000	2590	7.9	27.6	--	--	--	--	--
AUG											
05...	1745	--	6000	--	--	--	--	--	29.7	17.8	37.9
06...	1750	28.0	6000	2940	7.1	27.2	21.0	5.5	29.0	24.3	40.3
06...	1751	20.0	6000	2720	7.1	27.2	--	5.7	28.8	17.5	36.9
06...	1752	14.0	6000	2670	7.2	27.2	--	5.8	29.4	16.6	37.1
06...	1753	7.0	6000	2580	7.2	27.1	--	6.0	32.9	18.2	41.2
06...	1754	1.0	6000	2580	7.2	27.1	--	6.0	31.0	16.9	38.7
06...	1800	--	5000	--	--	--	--	--	28.5	18.0	36.8
06...	1805	24.0	2300	3530	7.0	27.4	19.0	5.1	--	--	--
06...	1807	12.0	2300	3090	7.1	27.3	--	5.7	--	--	--
06...	1808	1.0	2300	2690	7.4	27.1	--	6.4	--	--	--
06...	1810	--	2300	--	--	--	--	--	27.5	17.4	35.6
06...	1747	25.0	6000	3580	7.8	27.3	23.0	7.4	36.6	25.2	48.3
17...	1748	19.0	6000	3520	7.7	27.3	--	7.0	33.0	15.0	39.8
17...	1749	13.0	6000	3090	7.5	27.3	--	6.4	29.7	12.6	35.4
17...	1750	6.0	6000	2800	7.9	27.4	--	7.5	37.5	11.5	42.5
17...	1751	1.5	6000	2770	8.0	27.3	--	7.9	40.9	11.2	45.8
18...	0845	--	6000	--	--	--	--	--	25.8	14.8	32.5
18...	0850	25.0	6000	4220	7.3	26.0	17.0	6.3	26.9	23.7	38.0
18...	0851	19.0	6000	4190	7.4	26.2	--	6.2	26.6	18.4	35.2
18...	0852	13.0	6000	4170	7.3	26.3	--	6.1	24.7	14.2	31.2
18...	0853	6.0	6000	4150	7.3	26.3	--	6.1	25.4	15.6	32.6

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

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOCATION, CROSS SECTION, L BANK	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR, (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR, (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG 18...	0854	1.6	6000	4090	7.4	26.3	---	6.2	25.6	15.1	32.5
18...	0902	16.0	2300	5140	7.4	26.0	25.0	6.5	---	---	---
18...	0903	6.0	2300	5150	7.4	26.0	---	6.5	---	---	---
18...	0904	1.6	2300	4950	7.5	26.0	---	6.5	---	---	---
18...	0905	---	2300	---	---	---	---	---	26.0	9.0	30.0
24...	2225	---	2300	---	---	---	---	---	33.0	16.7	40.6
24...	2230	---	5000	---	---	---	---	---	34.1	17.4	42.1
24...	2231	22.0	2300	6380	7.1	24.1	---	5.8	---	---	---
24...	2232	10.0	2300	6230	7.3	24.2	---	6.4	---	---	---
24...	2233	4.0	2300	5380	8.1	24.6	---	9.0	---	---	---
24...	2234	1.0	2300	5450	8.1	24.6	---	9.1	---	---	---
24...	2240	---	6000	---	---	---	---	---	35.4	16.6	42.9
24...	2245	27.0	6000	5750	7.3	24.2	---	6.3	27.0	20.9	36.8
24...	2246	19.0	6000	5450	7.4	24.3	---	6.8	29.5	15.6	36.7
24...	2247	10.0	6000	5050	7.4	24.4	---	7.3	32.1	15.1	38.9
24...	2248	4.0	6000	4180	8.0	24.5	---	8.7	46.0	13.1	51.7
24...	2249	1.0	6000	4160	8.1	24.5	---	8.8	50.2	10.5	54.6
25...	1015	---	2300	---	---	---	---	---	29.9	20.9	39.6
25...	1020	19.0	2300	5460	7.3	24.1	14.0	6.8	---	---	---
25...	1021	10.0	2300	5430	7.4	24.0	---	7.0	---	---	---
25...	1022	1.0	2300	5190	7.6	24.0	---	7.6	---	---	---
25...	1025	---	6000	---	---	---	---	---	30.5	18.5	39.0
25...	1030	23.0	6000	5330	7.3	23.9	23.0	6.6	28.9	17.6	37.0
25...	1031	10.0	6000	5020	7.3	23.9	---	6.8	30.1	18.0	38.4
25...	1032	4.0	6000	4650	7.5	24.0	---	7.4	37.1	15.2	44.0
25...	1033	1.0	6000	4560	7.5	24.0	---	7.7	38.3	15.5	45.3
25...	1045	---	5000	---	---	---	---	---	30.8	17.9	39.0
25...	1745	---	2300	---	---	---	---	---	34.0	15.9	41.2
25...	1755	18.0	2300	6610	7.6	24.2	18.0	6.8	---	---	---
25...	1756	10.0	2300	6410	7.8	24.3	---	7.6	---	---	---
25...	1757	4.0	2300	6370	8.2	24.6	---	8.7	---	---	---
25...	1758	1.0	2300	6350	8.5	24.8	---	9.8	---	---	---
25...	1800	---	5000	---	---	---	---	---	36.0	15.0	42.8
25...	1805	---	6000	---	---	---	---	---	32.0	16.9	39.8
25...	1810	29.0	6000	6550	7.6	24.1	---	6.6	23.0	23.9	34.3
25...	1811	20.0	6000	5930	7.6	24.1	---	7.1	---	---	---
25...	1812	10.0	6000	5980	7.7	24.2	---	7.4	27.4	15.0	34.3
25...	1813	4.0	6000	5460	8.0	24.4	---	8.2	34.1	15.9	41.4
25...	1814	1.0	6000	4840	8.5	24.8	---	9.4	49.0	14.2	55.2

APPENDIX A-2

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL. A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)
AUG											
26....	1025	--	2300	--	--	--	--	--	29.4	22.5	39.9
26....	1030	19.0	2300	1900	7.5	24.1	17.0	7.7	--	--	--
26....	1031	10.0	2300	1910	7.6	24.0	--	7.8	--	--	--
26....	1033	5.0	2300	1920	7.6	23.9	--	8.2	--	--	--
26....	1034	1.0	2300	1900	8.0	24.3	--	9.0	--	--	--
26....	1040	--	6000	--	--	--	--	--	33.5	19.1	42.2
26....	1045	22.0	6000	1930	7.6	24.1	16.0	8.1	27.5	20.0	36.8
26....	1046	10.0	6000	1930	7.6	24.0	--	8.2	27.7	17.5	35.8
26....	1047	4.0	6000	1940	7.9	24.0	--	9.2	39.1	17.7	47.1
26....	1048	2.0	6000	1950	8.4	24.0	--	10.8	58.6	17.2	66.1
26....	1049	1.0	6000	1940	8.8	24.2	--	12.4	77.8	13.8	83.3
26....	1100	--	50000	--	--	--	--	--	32.8	18.9	41.5
26....	1715	--	6000	--	--	--	--	--	17.8	19.9	27.2
26....	1720	33.0	6000	7800	7.4	24.5	15.0	6.2	10.5	25.3	22.6
26....	1721	20.0	6000	7730	7.5	24.6	--	6.7	--	--	--
26....	1722	10.0	6000	6230	7.5	24.5	--	6.6	15.2	18.1	23.8
26....	1723	4.0	6000	5900	7.6	24.7	--	8.8	33.5	17.5	41.5
26....	1724	1.0	6000	5550	8.3	25.1	--	9.1	26.4	16.2	33.9
26....	1730	--	50000	--	--	--	--	--	23.2	16.4	30.8
26....	1734	--	2300	--	--	--	--	--	42.0	15.9	49.1
26....	1735	20.0	2300	7610	8.1	25.0	22.0	8.4	--	--	--
26....	1736	10.0	2300	7300	8.5	25.5	--	10.4	--	--	--
26....	1737	4.0	2300	6950	8.5	25.5	--	10.2	--	--	--
26....	1738	1.0	2300	6940	8.5	25.5	--	10.2	--	--	--
SEP											
03....	0846	29.0	6000	6300	7.2	25.2	24.0	5.5	19.3	32.6	34.9
03....	0847	19.0	6000	6070	7.2	25.3	--	5.7	27.2	24.0	38.4
03....	0848	10.0	6000	5980	7.2	25.4	--	5.8	33.6	25.5	45.5
03....	0849	4.0	6000	5900	7.2	25.3	--	5.9	29.3	17.6	37.4
03....	0850	1.0	6000	5790	7.3	25.3	--	6.0	37.0	18.6	45.5
10....	1030	26.0	6000	5190	6.9	23.8	--	5.0	17.5	30.0	31.8
10....	1031	19.0	6000	5160	6.9	23.8	23.0	5.0	17.8	21.6	28.1
10....	1032	13.0	6000	5140	6.9	23.8	--	5.0	15.7	18.6	24.5
10....	1033	7.0	6000	5040	6.9	23.8	--	5.3	18.4	16.9	26.3
10....	1034	5.0	6000	4800	7.1	23.9	--	5.8	24.0	14.8	30.8
10....	1035	1.6	6000	4560	7.3	24.0	--	7.1	39.2	16.1	46.4
16....	0710	27.0	6000	5060	6.9	24.3	14.0	5.8	24.3	36.8	41.8
16....	0711	20.0	6000	5080	6.9	24.4	--	5.9	22.7	23.6	33.9
16....	0712	12.0	6000	5090	6.9	24.4	--	5.8	19.7	22.4	30.3
16....	0713	6.0	6000	5090	7.0	24.4	--	5.9	20.9	21.7	31.1

01658710 -- POTOMAC RIVER AT QUANTICO, VA. ---Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT) (00003)	SAMPLE LDC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
SEP 16...	0714	2.0	6000	5120	7.0	24.2	---	21.8	20.7	31.5
21...	1759	1.6	6000	2960	7.7	22.3	---	26.4	20.9	36.2
21...	1801	6.0	6000	3340	7.4	21.7	---	19.1	25.8	31.4
21...	1802	13.0	6000	3810	7.3	21.8	---	16.0	25.2	28.0
21...	1803	19.0	6000	4350	7.3	21.9	---	13.0	26.7	25.8
21...	1805	26.0	6000	4530	7.3	21.9	14.0	14.1	33.7	30.2
22...	0705	26.0	6000	4760	7.1	21.7	12.0	19.3	55.2	45.8
22...	0706	19.0	6000	4460	7.2	21.7	---	15.7	26.4	28.3
22...	0707	13.0	6000	4250	7.2	21.7	---	16.6	32.0	31.9
22...	0709	6.0	6000	3400	7.3	21.5	---	20.7	21.9	31.0
22...	0711	1.6	6000	3390	7.3	21.5	---	22.2	20.1	31.6

38264-0077159900 - POTOMAC RIVER AT DOUGLAS POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L)	PHEOPY -TIN A FLURO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)
OCT											
21...	1533	1.0	2000	6610	7.7	17.7	--	9.0	23.8	8.2	27.4
21...	1538	6.0	2000	6520	7.7	17.8	--	8.6	22.9	10.1	27.4
21...	1539	10.0	2000	6560	7.5	17.6	--	8.0	20.6	8.7	24.6
21...	1540	20.0	2000	7250	7.4	17.7	22.0	7.8	13.0	8.6	17.0
21...	1605	--	11700	--	--	--	--	--	27.8	13.1	33.7
21...	1606	7.0	11700	5510	7.7	17.5	14.0	9.2	--	--	--
21...	1608	1.0	11700	5510	7.8	17.4	--	9.2	--	--	--
NOV											
17...	1845	2.0	2000	8300	7.9	9.0	--	10.0	10.2	4.6	12.3
17...	1847	8.0	2000	10300	7.8	9.3	--	9.6	12.2	4.8	14.4
17...	1850	17.0	2000	11000	7.8	9.4	--	9.3	12.9	5.1	15.2
18...	0840	2.0	2000	8100	7.7	8.8	--	10.1	12.6	7.3	15.9
18...	0842	10.0	2000	9400	7.6	9.0	--	9.9	10.5	5.7	13.1
18...	0845	21.0	2000	10700	7.6	9.1	48.0	9.8	9.8	8.3	13.6
18...	0902	7.0	11700	7000	7.7	8.5	23.0	10.2	12.7	8.8	16.8
18...	0904	2.0	11700	7000	7.7	8.6	--	10.1	13.0	8.4	17.0
DEC											
15...	1620	2.0	2000	6740	8.4	5.8	--	12.8	67.3	11.1	71.7
15...	1622	5.0	2000	7490	8.6	5.9	--	13.2	73.0	10.4	77.0
15...	1623	10.0	2000	9110	8.3	6.0	--	12.1	41.8	12.5	47.3
15...	1625	15.0	2000	9690	8.3	6.0	34.0	12.0	37.8	8.0	41.1
15...	1642	5.0	11700	6130	8.7	5.4	24.0	13.2	75.5	12.2	80.3
15...	1644	2.0	11700	6130	8.7	5.4	--	13.2	72.6	15.1	78.8
FER											
03...	1155	20.0	2000	17200	7.8	1.4	--	12.4	--	--	--
03...	1156	15.0	2000	14600	7.9	1.1	--	12.5	--	--	--
03...	1157	10.0	2000	8900	8.0	.8	--	13.0	--	--	--
03...	1158	2.0	2000	8400	8.0	.7	--	12.8	--	--	--
04...	1400	2.0	2000	8700	8.3	.8	--	11.6	50.4	2.60	50.9
04...	1402	7.0	2000	8700	8.3	.8	--	11.5	49.7	5.40	51.6
04...	1403	15.0	2000	9200	8.3	.7	--	11.6	39.1	7.70	42.3
04...	1404	20.0	2000	10300	8.2	.8	--	11.3	35.3	6.50	37.9
04...	1405	26.0	2000	10700	8.2	.8	36.0	11.3	31.9	5.90	34.4
04...	1422	8.0	11700	9000	8.2	.9	34.0	12.2	33.9	4.40	35.6
04...	1424	2.0	11700	9100	8.2	1.0	--	12.0	35.6	4.90	37.5
17...	1045	25.0	2000	7970	7.8	2.6	24.0	13.0	54.6	1.60	54.6
17...	1047	20.0	2000	7880	7.8	2.5	--	13.0	48.3	5.40	50.3
17...	1049	13.0	2000	7180	7.8	2.5	--	12.9	51.6	5.70	53.6
17...	1051	7.0	2000	6900	7.8	2.5	--	12.9	50.2	6.80	52.8
17...	1053	2.0	2000	6050	7.8	2.7	--	12.9	78.2	.90	76.6
24...	1430	27.0	2000	4900	7.5	5.7	23.0	9.5	25.6	6.70	28.4
24...	1432	20.0	2000	3950	7.5	5.8	--	9.3	27.8	7.60	31.1

382640077159900 - POTOMAC RIVER AT DOUGLAS POINT

--Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (JMHS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR.	(UG/L)	(32209)	PHEOPY -TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)	(32217)
FER																						
24...	1434	12.0		2000		3750		7.5		5.8		--		9.3		27.8		7.8		31.2		
24...	1436	7.0		2000		3150		--		5.8		--		--		31.8		9.8		36.1		
24...	1437	2.0		2000		4140		--		5.8		--		--		32.6		8.2		36.1		
27...	1410	26.0		2000		2620		7.6		6.1	12.0		10.9		6.0		10.5		11.0			
27...	1412	19.0		2000		2580		7.6		6.1			10.9		12.8		11.2		18.0			
27...	1414	12.0		2000		2170		7.6		6.4			11.0		11.2		11.4		16.6			
27...	1416	7.0		2000		1620		7.6		6.6			11.1		7.8		11.3		13.2			
27...	1418	2.0		2000		1380		7.6		6.6			11.1		8.0		11.8		13.6			
MAR																						
03...	1830	3.0		2000		3650		7.6		7.2		--	10.6		10.0		10.9		15.1			
03...	1831	10.0		2000		3670		7.6		7.2		--	10.6		9.9		6.9		13.1			
03...	1832	15.0		2000		3660		7.6		7.3		--	10.4		9.5		7.5		13.0			
03...	1835	20.0		2000		3660		7.6		7.3		--	10.5		9.7		7.6		13.2			
03...	1902	10.0		11700		2320		7.6		7.3		--	10.6		7.4		7.6		11.0			
03...	1904	3.0		11700		2300		7.6		7.3		--	10.5		7.2		8.0		11.0			
18...	0930	3.0		2000		3110		7.5		5.2		--	9.7		6.8		13.9		13.5			
24...	1400	28.0		2000		9940		7.2		5.6	12.0		9.2		4.0		10.0		8.8			
24...	1402	15.0		2000		8740		7.4		5.5		--	9.3		4.2		8.1		8.1			
24...	1404	8.0		2000		5830		7.5		5.7		--	9.8		4.1		6.7		7.3			
24...	1406	2.0		2000		4990		7.5		6.3		--	10.0		4.3		6.2		7.3			
APR																						
01...	1430	25.0		2000		8300		7.1		9.3		--	9.2		7.8		11.2		13.1			
01...	1432	15.0		2000		7920		7.2		9.4		--	9.1		6.8		7.9		10.6			
01...	1434	8.0		2000		7530		7.2		9.6		--	9.3		7.5		8.3		11.4			
01...	1436	2.0		2000		7060		7.3		9.9		--	9.4		6.9		4.7		9.1			
09...	1250	27.0		2000		4940		7.1		12.7		--	8.7		7.4		15.7		14.8			
09...	1252	15.0		2000		4600		7.2		12.6		--	8.7		7.1		13.9		13.7			
09...	1254	8.0		2000		4070		7.3		12.6		--	8.8		6.4		9.8		11.1			
09...	1256	2.0		2000		3690		7.3		12.6		--	8.8		5.7		10.7		10.8			
15...	1300	23.0		2000		896		7.3		14.2	7.0	--	8.7		7.5		20.1		17.1			
15...	1301	17.0		2000		698		7.3		14.3		--	8.5		8.9		19.1		18.0			
15...	1303	12.0		2000		650		7.3		14.4		--	8.5		7.8		19.9		17.3			
15...	1304	7.0		2000		592		7.2		14.4		--	8.4		9.8		19.1		17.9			
15...	1305	2.0		2000		586		7.2		14.4		--	8.4		8.6		19.2		17.8			
15...	1332	7.0		11700		1020		7.3		14.5	7.0	--	8.9		10.0		20.4		19.8			
15...	1334	2.0		11700		1019		7.3		14.5		--	8.8		9.6		20.0		19.2			
16...	0940	23.0		2000		867		7.2		13.4	18.0	--	--		9.6		36.2		27.0			
16...	0942	13.0		2000		809		7.2		13.6		--	--		8.5		20.6		18.4			
16...	0944	3.0		2000		617		7.3		13.6		--	--		6.6		10.8		11.7			
22...	1330	24.0		2000		726		7.5		14.3		--	8.0		8.5		24.2		20.2			
22...	1332	15.0		2000		704		7.5		14.3		--	7.9		8.4		16.5		16.3			

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

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOCATION	SPE- CIFIC CON- DUCTANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK IN)	OXYGEN; DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
APR 22...	1334	3.0	2000	627	7.5	14.4	---	7.9	8.0	14.4	14.9
29...	1215	25.0	2000	5050	7.1	15.3	---	6.3	9.6	9.8	13.3
29...	1217	23.0	2000	5050	7.1	15.2	---	6.2	---	---	---
29...	1219	20.0	2000	3350	7.4	15.8	---	7.1	10.6	8.0	14.4
29...	1221	10.0	2000	2670	7.4	16.5	---	7.9	17.6	7.0	20.8
29...	1223	2.0	2000	2130	7.8	17.1	---	8.9	27.2	3.1	28.3
MAY 04...	0945	25.0	2000	5760	7.3	15.1	---	8.1	---	---	---
04...	0947	12.0	2000	4310	7.4	15.1	---	8.5	---	---	---
04...	0949	3.0	2000	2910	7.6	15.5	---	9.1	---	---	---
19...	1250	20.0	2000	2250	7.3	17.8	12.0	7.4	20.9	23.1	31.8
19...	1251	19.0	2000	1970	7.4	17.8	---	7.6	26.4	24.9	38.1
19...	1252	12.0	2000	1580	7.5	17.8	---	8.1	32.2	24.3	43.5
19...	1253	7.0	2000	1490	7.6	17.8	---	8.4	31.7	21.6	41.7
19...	1255	2.0	2000	1410	7.7	17.8	---	8.5	34.5	23.2	45.3
19...	1322	10.0	11700	379	8.2	17.4	12.0	9.5	86.3	20.2	94.8
19...	1324	2.0	11700	390	8.2	17.5	---	9.6	82.5	21.2	91.6
27...	1025	3.0	2000	---	---	---	---	---	49.0	11.8	54.0
27...	1030	21.0	2000	---	---	---	---	---	45.0	15.9	52.0
28...	1350	24.0	2000	3050	7.2	21.0	24.0	5.8	---	---	---
28...	1352	20.0	2000	2690	7.2	21.0	---	5.9	---	---	---
28...	1354	10.0	2000	2070	7.3	21.1	---	6.6	---	---	---
28...	1356	2.0	2000	1780	7.8	22.1	---	8.1	---	---	---
JUN 01...	1620	23.0	2000	1390	7.2	22.5	12.0	6.0	20.8	38.9	39.4
01...	1622	15.0	2000	1360	7.2	22.5	---	6.1	24.4	26.5	36.9
01...	1624	10.0	2000	1190	7.3	22.6	---	6.3	22.4	16.9	30.2
01...	1626	2.0	2000	967	7.3	22.6	---	6.7	27.5	16.3	35.0
01...	1630	8.0	11700	314	7.7	22.4	12.0	7.4	38.1	30.8	52.5
01...	1632	2.0	11700	315	7.7	22.5	---	7.4	38.4	20.5	47.8
30...	1535	2.0	2000	1480	7.9	27.0	---	8.4	42.4	11.0	47.1
30...	1537	7.0	2000	1680	7.6	26.8	---	7.7	37.8	9.9	42.1
30...	1538	13.0	2000	2720	7.1	26.4	---	6.0	22.2	10.2	26.8
30...	1539	16.0	2000	3240	6.9	26.3	---	5.5	18.9	13.2	25.0
30...	1540	24.0	2000	3610	6.9	26.4	13.0	5.3	17.8	33.2	33.6
30...	1616	7.0	11700	219	9.0	27.3	11.0	11.5	108	7.7	110
30...	1618	2.0	11700	220	9.0	27.3	---	11.7	102	19.1	110
JUL 14...	1445	3.0	2000	2120	8.8	28.7	---	9.4	56.6	7.6	57.5
27...	2030	25.0	2000	6700	7.3	27.5	24.0	5.6	---	---	---
27...	2034	20.0	2000	6700	7.3	27.5	---	5.7	21.6	16.1	29.1
27...	2036	13.0	2000	6000	7.6	27.8	---	6.7	31.4	15.2	38.3

382640077159900 - POTOMAC RIVER AT DOUGLAS POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (000003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (000009)	SPE- CTIFIC CON- DUCT- ANCE (JM05) (000095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLDRO- PHYLL A FLURO- METRIC METHOD CORR. (JG/L) (32209)	PHEOPHY -TIN A FLURO- METRIC METHOD (UG/L) (32213)	CHLDRO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)
JUL	2038	7.0	2000	5900	7.6	27.8	--	6.7	29.1	12.1	34.7
27....	2040	1.6	2000	4900	8.2	28.3	--	8.7	38.9	10.3	43.3
28....	0800	25.0	2000	6930	7.3	27.5	18.0	6.2	23.3	16.4	30.9
28....	0804	20.0	2000	6790	7.4	27.6	--	6.2	22.0	15.0	28.9
28....	0806	13.0	2000	6620	7.4	27.6	--	6.3	20.2	12.9	26.2
28....	0808	7.0	2000	6310	7.4	27.6	--	6.4	28.1	12.3	33.6
28....	0810	1.6	2000	5990	7.5	27.6	--	6.8	46.6	11.0	51.2
28....	0816	7.0	11700	4040	7.6	27.3	12.0	6.5	41.5	34.5	57.7
28....	0818	1.6	11700	4050	7.6	27.3	--	6.6	41.9	21.2	51.6
AUG	1705	24.0	2000	6990	7.3	26.8	24.0	5.6	9.3	18.8	18.3
17....	1708	20.0	2000	6990	7.3	26.8	--	5.6	10.1	14.2	16.8
17....	1710	13.0	2000	5790	7.5	26.9	--	6.4	16.0	9.1	20.2
17....	1712	7.0	2000	5360	7.5	26.9	--	6.7	18.5	10.6	23.4
17....	1714	1.6	2000	4540	7.9	27.0	--	7.7	36.4	7.1	39.3
17....	1726	7.0	11700	4170	7.7	27.0	18.0	7.1	27.6	20.9	37.4
17....	1728	1.6	11700	4180	7.8	27.0	--	7.3	31.8	11.0	36.7
SEP	1045	4.0	2000	6790	7.2	24.2	--	6.8	38.7	12.6	44.3
10....	1735	20.0	2000	7290	7.3	22.0	22.0	6.4	6.7	18.3	15.5
21....	1738	17.0	2000	7170	7.3	21.9	--	6.5	7.0	12.4	12.9
21....	1740	13.0	2000	7040	7.4	22.1	--	6.6	6.7	8.6	10.8
21....	1742	7.0	2000	6490	7.5	22.7	--	7.2	8.4	9.0	12.7
21....	1744	1.6	2000	5910	7.6	23.6	--	7.4	13.9	11.3	19.2
21....	1746	7.0	11700	5840	7.4	22.2	16.0	6.6	8.6	19.3	17.9
21....	1748	1.6	11700	5820	7.4	22.3	--	6.7	11.7	15.0	18.8

382233077102000 - POTOMAC RIVER AT STUART WHARF
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LCC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLIA FLUORO- METRIC CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLOURO- METRIC METHOD (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
OCT											
21...	1639	1.0	3600	14700	7.4	17.9	--	7.5	7.3	4.9	9.6
21...	1641	6.0	3600	15800	7.4	17.9	--	7.3	4.5	4.6	6.7
21...	1645	16.0	3600	17000	7.3	17.9	24.0	6.8	4.0	20.0	13.7
NOV											
17...	1800	2.0	3600	15400	7.9	9.7	--	9.5	9.1	5.0	11.4
17...	1803	6.0	3600	16600	7.9	9.8	--	9.4	10.6	4.0	12.4
17...	1804	16.0	3600	19000	7.9	10.2	--	9.0	14.0	6.3	16.8
17...	1805	25.0	3600	19700	7.9	10.0	--	9.1	10.0	11.6	15.5
DEC											
15...	1535	2.0	3600	16100	8.2	6.2	--	10.9	14.4	10.0	19.0
15...	1538	5.0	3600	17500	8.0	6.5	--	10.4	13.9	7.0	17.1
15...	1539	10.0	3600	18900	8.0	6.6	--	10.2	13.1	7.4	16.4
15...	1540	20.0	3600	19600	8.0	6.5	35.0	10.3	12.9	9.1	17.1
FEB											
03...	1200	22.0	3600	17900	7.9	1.1	--	12.6	--	--	--
03...	1202	3.0	3600	13500	8.0	.8	--	12.8	--	--	--
04...	1500	2.0	3600	15800	8.1	1.1	--	11.4	34.1	4.8	35.9
04...	1503	7.0	3600	15800	8.1	1.1	--	11.4	34.2	4.4	35.8
04...	1504	12.0	3600	16500	8.0	1.1	--	11.3	32.9	7.5	36.0
04...	1505	20.0	3600	18600	7.9	1.1	36.0	11.1	34.1	13.5	52.8
MAR											
03...	1740	2.0	3600	7940	7.9	6.8	--	11.7	35.0	5.6	37.2
03...	1742	10.0	3600	8950	7.8	6.7	--	11.1	34.8	7.2	37.8
03...	1743	17.0	3600	22600	7.4	5.3	--	9.1	67.6	6.3	69.6
03...	1745	23.0	3600	24800	7.5	5.1	22.0	9.2	73.2	15.8	79.8
18...	1015	2.0	3600	12700	7.4	5.4	--	9.2	21.3	8.6	25.2
18...	1017	7.0	3600	13500	7.4	5.6	--	9.1	17.1	11.2	22.2
18...	1018	12.0	3600	14200	7.4	5.6	--	9.0	19.1	17.3	27.2
18...	1019	18.0	3600	14500	7.4	5.6	--	9.0	19.4	18.1	26.9
18...	1020	22.0	3600	14800	7.4	5.6	24.0	9.2	20.6	25.7	32.8
APR											
15...	1410	2.0	3600	4650	7.2	13.9	--	8.7	5.5	10.8	10.6
15...	1413	10.0	3600	4660	7.2	13.8	--	8.7	4.8	10.9	10.0
15...	1414	17.0	3600	4830	7.2	13.7	--	8.7	6.6	16.5	14.5
15...	1415	23.0	3600	4930	7.2	13.6	12.0	8.7	7.4	16.3	15.1
MAY											
19...	1400	2.0	3600	6940	7.2	17.4	--	6.5	37.4	12.4	42.8
19...	1402	7.0	3600	7540	7.1	17.5	--	6.1	22.2	14.9	29.1
19...	1403	12.0	3600	7680	7.1	17.5	--	6.0	20.8	18.4	29.4
19...	1404	20.0	3600	7940	7.1	17.5	--	5.8	19.9	20.6	29.6
19...	1405	26.0	3600	9570	7.1	17.5	13.0	5.6	17.2	21.4	27.3
JUN											
01...	1540	23.0	3600	9680	6.8	21.6	15.0	3.4	4.0	34.6	20.8
01...	1542	16.0	3600	7350	6.8	21.8	--	4.3	5.3	11.8	10.9

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--Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	(00095)	PH	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLDR- PHYLL/A METRIC METHOD CORR.	(UG/L)	(32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLDR- PHYLL/A FLURO- METRIC METHOD UNCORR. (UG/L)	(32217)
JUN 01...	1544	10.0		3600		6820		6.8	21.8		--		4.5		18.5		1.6		17.5		
01...	1546	2.0		3600		6620		6.9	21.9		--		4.7		8.1		9.6		12.6		
18...	1310	27.0		3600		10600		6.8	25.6		19.0		2.2		3.0		8.3		7.0		
18...	1311	24.0		3600		9750		6.8	25.8		--		2.3		3.0		8.8		7.2		
18...	1312	21.0		3600		8250		6.8	26.1		--		2.8		4.6		9.5		9.1		
18...	1313	15.0		3600		6200		6.9	26.5		--		3.6		6.1		9.9		10.8		
18...	1314	9.0		3600		5170		6.9	26.6		--		3.8		7.0		9.7		11.6		
18...	1315	3.0		3600		4380		6.9	26.8		--		3.9		8.8		8.5		12.8		
18...	1410	27.0		3600		11500		6.7	25.6		--		2.1		3.8		7.0		7.1		
18...	1411	24.0		3600		9640		6.7	25.9		--		2.3		2.3		8.9		6.6		
18...	1412	21.0		3600		8100		6.8	26.1		--		2.8		3.9		8.7		8.0		
18...	1413	15.0		3600		5830		6.9	26.4		--		3.6		6.8		9.1		11.2		
18...	1414	9.0		3600		5270		6.9	26.5		--		3.8		7.0		9.5		11.5		
18...	1415	3.0		3600		4450		6.9	26.6		--		4.0		7.2		9.3		11.6		
18...	1510	27.0		3600		11100		6.7	25.7		--		2.1		3.5		20.2		13.2		
18...	1511	24.0		3600		9650		6.7	25.9		--		2.5		2.8		9.9		7.6		
18...	1512	21.0		3600		7430		6.8	26.2		--		3.1		4.3		12.5		10.3		
18...	1513	15.0		3600		5510		6.9	26.5		--		3.6		5.8		11.6		11.3		
18...	1514	9.0		3600		5200		6.9	26.5		--		3.7		5.9		10.3		10.8		
18...	1515	3.0		3600		4630		6.9	26.6		--		4.0		5.7		10.9		10.9		
18...	1610	27.0		3600		15000		6.7	24.7		19.0		1.2		3.2		22.9		14.3		
18...	1611	24.0		3600		12700		6.8	25.4		--		1.8		2.5		9.4		7.0		
18...	1612	21.0		3600		10200		6.8	25.7		--		2.3		2.8		6.7		6.0		
18...	1613	15.0		3600		5470		6.9	26.5		--		3.8		6.3		9.1		10.7		
18...	1614	9.00		3600		5150		6.9	26.6		--		3.9		6.8		9.1		11.1		
18...	1615	3.00		3600		3870		7.4	28.0		--		6.1		17.7		8.3		21.5		
18...	1710	28.0		3600		15000		6.7	24.5		19.0		1.2		2.7		11.3		8.1		
18...	1711	24.0		3600		12800		6.8	24.9		--		1.9		2.3		7.2		5.8		
18...	1712	21.0		3600		9470		6.8	25.8		--		2.7		3.1		7.2		6.5		
18...	1713	15.0		3600		8720		6.8	25.9		--		2.9		2.6		7.4		6.2		
18...	1714	9.0		3600		6030		6.9	26.3		--		3.6		3.8		8.5		7.9		
18...	1715	3.0		3600		5060		7.0	26.6		--		4.1		8.4		8.8		12.6		
18...	1810	29.0		3600		12800		6.7	25.0		21.0		1.9		3.3		15.1		10.6		
18...	1811	24.0		3600		12300		6.8	25.2		--		2.0		2.4		8.8		6.6		
18...	1812	21.0		3600		11700		6.8	25.3		--		2.2		3.1		7.2		6.6		
18...	1813	15.0		3600		8430		6.9	26.0		--		3.4		6.4		7.0		9.7		
18...	1814	9.00		3600		6590		7.1	26.8		--		4.9		8.6		7.0		11.9		
18...	1815	3.00		3600		5830		7.2	27.2		--		5.5		17.6		6.9		20.7		
18...	1910	29.0		3600		12500		6.7	25.1		22.0		1.8		3.1		15.1		10.4		

APPENDIX A-2

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	(000003)	SAMPLE LCC- ATION, CROSS SECTION (FT FM L BANK)	(000009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK)	(IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL/A FLUORO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY FLURO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLOURO- METRIC METHOD UNCORR. (UG/L)	(32217)
JUN 18...	1911	24.0		3600		12500		6.8		25.0		--		1.8		3.1		9.8		7.8		
18...	1912	21.0		3600		12600		6.8		25.1		--		2.0		3.1		5.8		5.9		
18...	1913	15.0		3600		9450		6.9		26.0		--		3.7		5.6		6.8		8.8		
18...	1914	9.0		3600		9220		7.0		26.0		--		3.8		6.2		7.1		9.6		
18...	1915	3.0		3600		6700		7.2		27.0		--		5.3		11.4		6.5		14.4		
18...	2010	28.0		3600		14200		6.8		24.6		21.0		1.7		3.7		15.1		10.9		
18...	2011	24.0		3600		14000		6.8		24.7		--		1.7		3.9		21.3		14.2		
18...	2012	21.0		3600		13500		6.8		24.8		--		2.1		5.9		5.5		8.5		
18...	2013	15.0		3600		9250		7.0		26.0		--		4.1		7.9		7.3		11.4		
18...	2014	9.0		3600		8480		7.1		26.5		--		4.7		8.8		6.9		12.0		
18...	2015	3.0		3600		7410		7.1		26.6		--		5.0		11.6		6.9		14.7		
18...	2100	27.0		3600		14800		6.8		24.5		--		1.6		7.0		6.3		9.9		
18...	2101	24.0		3600		14500		6.8		24.6		--		1.6		6.7		6.1		9.6		
18...	2102	21.0		3600		14400		6.8		24.6		--		1.7		7.6		6.2		10.4		
18...	2103	15.0		3600		9460		7.0		25.8		--		3.6		7.6		6.2		10.5		
18...	2104	9.0		3600		7340		7.2		26.6		--		5.0		9.7		5.3		12.1		
18...	2105	3.0		3600		7280		7.2		26.6		--		5.4		8.2		5.9		10.9		
18...	2210	28.0		3600		14300		6.8		24.6		--		1.6		4.8		6.1		7.7		
18...	2211	24.0		3600		14200		6.8		24.6		--		1.6		4.9		6.0		7.8		
18...	2212	21.0		3600		13000		6.9		24.8		--		2.2		7.0		5.1		9.4		
18...	2213	15.0		3600		11800		6.9		25.3		--		2.9		6.7		5.0		9.0		
18...	2214	9.0		3600		7440		7.1		26.5		--		5.0		7.3		5.8		10.0		
18...	2215	3.0		3600		7240		7.2		26.5		--		5.2		8.0		6.0		10.8		
18...	2310	27.0		3600		13900		6.8		24.7		--		1.4		5.6		7.2		9.0		
18...	2311	24.0		3600		13600		6.8		24.7		--		1.8		7.7		6.1		10.5		
18...	2312	21.0		3600		12400		6.9		25.1		--		2.4		5.9		5.8		8.6		
18...	2313	15.0		3600		10500		6.9		25.6		--		2.8		5.1		5.7		7.8		
18...	2314	9.0		3600		7050		7.2		26.7		--		4.9		9.6		7.9		13.3		
18...	2315	3.0		3600		6420		7.2		26.8		--		5.0		8.4		6.2		11.3		
19...	0010	28.0		3600		12700		6.8		24.9		--		1.6		5.8		8.0		9.6		
19...	0011	24.0		3600		12500		6.8		25.0		--		1.7		6.2		6.0		6.3		
19...	0012	21.0		3600		11800		6.8		25.2		--		2.0		3.5		5.9		6.0		
19...	0013	15.0		3600		9590		6.9		25.9		--		3.1		4.9		6.6		8.1		
19...	0014	9.0		3600		8030		7.0		26.1		--		3.6		5.3		6.7		8.4		
19...	0015	3.0		3600		5630		7.1		26.9		--		4.8		10.3		6.6		13.3		
19...	0110	27.0		3600		12700		6.8		24.9		--		1.6		4.0		6.5		7.1		
19...	0111	24.0		3600		12000		6.8		25.1		--		1.9		5.0		5.4		7.6		
19...	0112	21.0		3600		11200		6.8		25.3		--		2.1		4.6		7.0		7.9		
19...	0113	15.0		3600		9160		6.9		25.8		--		2.9		4.6		7.1		8.0		

382233077102000 - POTOMAC RIVER AT STUART WHARF

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LCC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA FLUORO- METRIC CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUN											
19...	0114	9.0	3600	8500	6.9	26.1	--	3.3	6.0	5.8	9.3
19...	0115	3.0	3600	5000	7.0	26.8	--	4.0	5.6	8.9	9.9
19...	0210	27.0	3600	12600	6.8	24.9	--	1.5	3.5	6.8	6.8
19...	0211	24.0	3600	12300	6.8	25.0	--	1.7	6.4	6.4	9.4
19...	0212	21.0	3600	11400	6.8	25.2	--	2.0	4.5	9.1	8.9
19...	0213	15.0	3600	8920	6.9	25.4	--	3.0	4.5	6.6	7.6
19...	0214	9.0	3600	6970	7.0	26.3	--	3.8	5.4	9.8	10.1
19...	0215	3.0	3600	6100	7.0	26.5	--	3.9	6.0	8.1	9.8
19...	0310	26.0	3600	12500	6.8	25.0	--	1.6	5.5	13.7	12.1
19...	0311	24.0	3600	10500	6.9	25.4	--	2.3	8.9	7.0	12.2
19...	0312	21.0	3600	10400	6.9	25.5	--	2.4	5.3	7.8	9.0
19...	0313	15.0	3600	7140	7.0	26.2	--	3.5	5.6	7.7	9.3
19...	0314	9.0	3600	6510	7.0	26.3	--	3.9	6.4	8.2	10.3
19...	0315	3.0	3600	5200	7.0	26.5	--	4.2	6.4	7.0	9.7
19...	0410	27.0	3600	15600	6.8	24.2	--	1.0	7.1	12.8	13.2
19...	0411	24.0	3600	12900	6.8	24.8	--	1.8	6.7	5.0	9.0
19...	0412	21.0	3600	11700	6.8	25.1	--	2.7	8.0	6.7	11.1
19...	0413	15.0	3600	9590	6.9	25.8	--	2.1	7.1	6.4	10.1
19...	0414	9.0	3600	5870	7.1	26.5	--	4.4	6.2	6.9	9.4
19...	0415	3.0	3600	4900	7.1	26.5	--	4.5	5.9	7.0	9.2
19...	0510	27.0	3600	15200	6.8	24.3	--	1.2	2.7	8.6	6.8
19...	0511	24.0	3600	12200	6.9	25.0	--	2.1	4.3	5.6	6.9
19...	0512	21.0	3600	9400	6.9	25.7	--	3.2	4.9	6.3	7.9
19...	0513	15.0	3600	8850	7.0	25.8	--	3.4	5.2	6.7	8.4
19...	0514	9.0	3600	8240	7.0	26.0	--	3.5	6.9	6.2	9.8
19...	0515	3.0	3600	7080	7.0	26.3	--	3.8	7.1	6.0	9.9
30...	1715	2.0	3600	11800	7.0	25.9	--	4.4	15.5	6.0	18.2
30...	1717	7.0	3600	12700	6.9	25.7	--	3.7	11.6	5.3	14.0
30...	1718	15.0	3600	13300	6.9	25.7	--	3.8	11.2	5.6	13.8
30...	1719	20.0	3600	14200	6.9	25.4	--	3.0	7.5	9.1	11.8
30...	1720	24.0	3600	14500	6.8	25.4	--	2.9	6.8	18.3	15.6
JUL											
15...	1200	3.0	3600	9840	7.5	28.1	--	5.3	--	--	--
19...	1924	1.6	3600	9700	7.3	27.8	--	5.9	10.6	8.3	14.5
27...	1927	6.0	3600	11600	7.0	27.4	--	4.4	12.7	8.8	16.8
27...	1928	13.0	3600	12500	7.0	27.2	--	3.8	5.2	7.5	8.8
27...	1929	19.0	3600	14100	6.9	27.1	--	3.1	9.8	11.6	15.2
27...	1930	26.0	3600	14300	6.9	27.1	18.0	3.0	11.1	25.5	23.3
AUG											
17...	1619	1.6	3600	10900	7.2	27.2	--	5.1	14.7	6.2	17.5
17...	1622	6.0	3600	11500	7.0	27.1	--	4.2	6.5	6.7	9.7

382233077102000 - POTOMAC RIVER AT STUART WHARF --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION, (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG											
17...	1623	13.0	3600	11800	7.0	27.1	--	3.9	6.1	7.9	9.9
17...	1624	19.0	3600	12800	7.0	27.1	--	3.8	5.0	6.4	8.0
17...	1625	26.0	3600	13600	6.9	27.1	19.0	3.2	5.8	21.1	16.0
SEP											
10...	1200	3.0	3600	12200	7.0	24.6	--	5.8	9.0	5.6	11.6
21...	1630	22.0	3600	14700	7.3	22.3	23.0	5.6	3.7	9.4	8.2
21...	1631	19.0	3600	14500	7.2	22.2	--	5.6	3.7	5.4	6.3
21...	1632	13.0	3600	13600	7.3	22.2	--	6.1	5.3	4.5	7.5
21...	1633	6.0	3600	12700	7.4	23.2	--	7.1	6.4	4.3	8.4
21...	1636	1.6	3600	12100	7.5	23.2	--	7.2	16.0	4.6	18.0

01660800 - POTOMAC R NR MORGANTOWN, MD
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	(00003)	SAMPLE LJC- ATION, CROSS SECTION, (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCI DISK)	(IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY -TIN A FLURO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)	(32217)
OCT																						
01...	1800	3.0		1500		17100		7.0		22.7		--		6.0		7.0		3.4		8.6		
01...	1801	15.0		1500		17400		7.0		22.7		--		--		2.4		3.0		3.8		
01...	1802	30.0		1500		18100		7.0		22.8		--		--		2.7		2.7		3.9		
01...	1803	50.0		1500		19000		7.0		22.8		--		5.3		--		--		--		
01...	1805	59.0		1500		18900		7.0		22.9		--		--		2.8		5.9		5.6		
09...	1120	3.0		1500		17200		7.0		19.4		54.0		6.2		7.5		3.5		9.1		
09...	1122	10.0		1500		17000		7.0		19.4		--		6.1		--		--		--		
09...	1123	20.0		1500		17900		7.0		19.9		--		6.1		--		--		--		
09...	1124	40.0		1500		18600		7.0		19.7		--		6.1		--		--		--		
09...	1125	65.0		1500		18800		7.0		19.7		--		6.0		5.8		10.0		10.6		
14...	1530	3.0		1500		16100		7.5		17.5		54.0		7.8		12.2		3.3		13.6		
14...	1531	10.0		1500		16200		7.5		17.0		--		7.6		--		--		--		
14...	1532	20.0		1500		16500		7.4		16.9		--		7.5		--		--		--		
14...	1533	30.0		1500		19400		7.3		18.1		--		6.7		--		--		--		
14...	1534	40.0		1500		19600		7.3		17.9		--		6.8		--		--		--		
14...	1535	70.0		1500		20100		7.4		17.9		--		6.8		6.2		3.8		7.9		
21...	1735	2.0		1500		19300		7.9		18.0		--		8.6		25.7		3.5		27.0		
21...	1736	10.0		1500		20000		7.7		18.6		--		7.8		15.3		3.6		16.8		
21...	1737	23.0		1500		20200		7.6		18.3		--		7.5		11.8		3.4		13.3		
21...	1738	32.0		1500		20800		7.6		18.0		--		6.9		11.0		3.0		12.3		
21...	1739	49.0		1500		22000		7.4		18.1		--	48.0	5.9		6.9		5.4		9.4		
21...	1740	67.0		1500		22100		7.4		18.1		--		5.8		8.2		4.2		10.2		
27...	1315	3.0		1500		15900		7.5		13.7		--		8.2		6.8		11.4		12.2		
27...	1316	10.0		1500		16500		7.5		13.7		--		8.1		--		--		--		
27...	1317	20.0		1500		17400		7.4		14.0		--		8.0		--		--		--		
27...	1318	32.0		1500		19000		7.4		14.3		--		7.7		--		--		--		
27...	1320	52.0		1500		20200		7.3		14.6		--		7.6		6.0		2.7		7.2		
NOV																						
05...	1600	57.0		1500		22900		7.6		12.8		60.0		7.3		8.6		8.9		12.8		
05...	1601	40.0		1500		22300		7.6		12.8		--		7.4		10.3		4.4		12.3		
05...	1602	30.0		1500		21100		7.7		12.7		--		7.9		10.9		3.4		12.4		
05...	1603	20.0		1500		20900		7.7		12.7		--		7.9		10.5		3.2		11.9		
05...	1604	10.0		1500		18900		7.7		12.4		--		8.2		11.1		2.3		12.1		
05...	1605	2.0		1500		18900		7.7		12.4		--		8.3		11.4		2.6		12.5		
13...	0720	2.0		1500		19000		7.7		9.5		46.0		9.1		18.9		2.5		19.8		
13...	0722	10.0		1500		22600		7.8		10.4		--		8.8		--		--		--		
13...	0723	20.0		1500		23800		7.8		10.5		--		8.8		--		--		--		
13...	0724	40.0		1500		25100		7.8		10.7		--		8.7		--		--		--		
13...	0725	67.0		1500		25400		7.8		10.8		--		8.9		26.7		14.5		33.3		
17...	1705	2.0		1500		22000		8.1		9.9		--		9.5		15.0		4.6		17.0		

01660600 - POTOMAC R NR MORGANTOWN, MD --Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- CENT- RATION (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLDRO- PHYLLA FLUORO- METRIC METHOD CORR. (UG/L)	(00095) (00010)	(00077) (00300)	CHLDRO- PHYLLA FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLDRO- PHYLLA FLUORO- METRIC METHOD UNCORR. (UG/L)	(32213) (32217)
NOV															
17...	1706	10.0	1500	22100	8.1	10.0	--	9.2	15.6	--	--	15.6	4.2	17.5	--
17...	1707	23.0	1500	23000	8.0	10.4	--	8.9	13.0	--	--	13.0	5.0	15.2	--
17...	1708	32.0	1500	24500	7.9	10.7	--	8.4	14.0	--	--	14.0	5.8	16.6	--
17...	1709	49.0	1500	25700	7.9	10.9	--	8.1	11.6	--	--	11.6	6.5	14.6	--
17...	1710	61.0	1500	26400	7.9	11.0	--	7.8	14.3	--	--	14.3	7.3	17.6	--
28...	1430	70.0	1500	25600	7.8	8.2	42.0	10.3	38.8	--	--	38.8	8.1	42.2	--
28...	1433	60.0	1500	26000	7.8	8.2	--	10.3	--	--	--	--	--	--	--
28...	1435	50.0	1500	25300	7.8	8.1	--	10.3	--	--	--	--	--	--	--
28...	1437	40.0	1500	25000	7.8	8.1	--	10.3	--	--	--	--	--	--	--
28...	1439	10.0	1500	21300	7.9	7.7	--	11.0	--	--	--	--	--	--	--
28...	1440	3.0	1500	20700	7.9	7.7	--	11.1	34.5	--	--	34.5	--	33.8	--
DEC															
04...	1340	60.0	1500	20800	--	--	35.0	--	23.1	--	--	23.1	7.3	26.3	--
04...	1345	3.0	1500	18200	--	--	--	--	26.1	--	--	26.1	3.3	27.3	--
09...	1620	2.0	1500	20600	7.9	7.4	--	9.3	10.5	--	--	10.5	3.2	11.9	--
09...	1622	15.0	1500	22500	7.9	7.5	--	9.3	--	--	--	--	--	--	--
09...	1623	25.0	1500	22500	7.9	7.2	--	9.1	--	--	--	--	--	--	--
09...	1624	45.0	1500	25600	7.9	6.8	--	8.4	--	--	--	--	--	--	--
09...	1625	61.0	1500	26500	7.9	6.8	--	8.6	13.0	--	--	13.0	10.0	17.6	--
15...	1435	2.0	1500	22600	8.2	6.8	--	11.0	24.3	--	--	24.3	6.0	26.9	--
15...	1440	68.0	1500	26700	7.9	7.2	57.0	9.3	24.0	--	--	24.0	13.1	30.0	--
15...	1441	60.0	1500	26200	7.9	7.2	--	9.3	18.0	--	--	18.0	6.1	20.7	--
15...	1442	50.0	1500	25800	7.9	7.2	--	9.4	19.0	--	--	19.0	8.8	23.0	--
15...	1443	40.0	1500	25400	8.0	7.1	--	9.5	18.0	--	--	18.0	7.2	21.2	--
15...	1444	30.0	1500	24500	8.0	6.8	--	9.9	16.4	--	--	16.4	5.0	18.6	--
15...	1445	20.0	1500	24000	8.0	6.7	--	10.2	16.5	--	--	16.5	3.6	18.0	--
15...	1446	10.0	1500	23200	8.1	6.7	--	10.7	16.0	--	--	16.0	3.6	17.5	--
15...	1447	5.0	1500	22900	8.1	6.8	--	10.7	18.9	--	--	18.9	4.0	20.6	--
JAN															
02...	1410	3.0	1500	21300	8.3	1.5	--	11.7	16.2	--	--	16.2	4.1	18.0	--
02...	1412	10.0	1500	23700	8.3	1.6	--	11.2	--	--	--	--	--	--	--
02...	1414	20.0	1500	24400	8.2	1.8	--	11.0	--	--	--	--	--	--	--
02...	1416	40.0	1500	26400	8.2	2.0	--	10.5	--	--	--	--	--	--	--
02...	1420	69.0	1500	27000	8.1	2.2	--	10.4	27.2	--	--	27.2	13.4	33.4	--
22...	0910	2.0	1500	25000	8.1	.2	--	13.2	17.3	--	--	17.3	2.4	18.3	--
22...	0911	7.0	1500	25500	8.1	.0	--	13.2	21.0	--	--	21.0	5.0	23.2	--
22...	0912	12.0	1500	25800	8.0	.0	--	13.2	20.5	--	--	20.5	5.7	22.9	--
22...	0913	20.0	1500	25900	8.0	.0	--	13.2	22.6	--	--	22.6	3.4	23.9	--
22...	0914	30.0	1500	25900	8.0	.0	--	13.2	19.3	--	--	19.3	4.5	21.2	--
22...	0915	60.0	1500	26000	8.1	.0	66.0	12.9	27.2	--	--	27.2	4.0	28.7	--

01660800 - POTOMAC R NR MORGANTOWN, MD --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (000003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (000009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (C) (00010)	TRANS- PAR- ENCY (SECCHI DISK (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)
JAN 22...	0916	40.0	1500	26000	8.1	.0	--	12.9	24.7	3.0	25.8
JAN 22...	0917	50.0	1500	26000	8.1	.0	--	12.9	24.2	2.5	25.1
FEB 03...	1025	70.0	1500	25800	8.0	.8	--	12.2	--	--	--
FEB 03...	1030	3.0	1500	21700	8.0	.8	--	12.3	--	--	--
FEB 04...	1610	2.0	1500	21500	8.1	1.6	60.0	11.0	24.7	2.6	25.6
FEB 04...	1615	72.0	1500	24600	7.9	1.0	--	10.8	28.6	5.9	31.0
FEB 04...	1617	60.0	1500	24500	8.0	1.0	--	10.8	27.0	6.1	29.5
FEB 04...	1618	50.0	1500	24400	8.0	1.0	--	10.8	27.9	5.2	30.0
FEB 04...	1619	40.0	1500	24200	8.1	1.0	--	10.8	24.2	4.2	25.9
FEB 04...	1620	30.0	1500	24300	8.1	1.0	--	10.9	23.5	5.9	26.0
FEB 04...	1621	20.0	1500	24100	8.1	1.0	--	10.8	23.9	2.9	25.0
FEB 04...	1622	10.0	1500	21700	8.1	2.1	--	11.0	24.6	3.9	26.2
FEB 13...	1200	58.0	1500	24000	7.7	1.3	54.0	11.2	14.5	13.5	20.8
FEB 13...	1204	41.0	1500	23600	7.8	1.2	--	11.4	4.8	5.4	7.4
FEB 13...	1206	25.0	1500	22900	7.8	1.2	--	11.7	--	--	--
FEB 13...	1208	15.0	1500	22200	7.8	1.2	--	11.6	17.4	3.4	18.8
FEB 13...	1210	3.0	1500	21600	7.8	1.4	--	12.1	4.4	4.2	6.3
FEB 19...	1345	57.0	1500	25000	7.9	3.6	54.0	10.6	50.6	19.2	59.1
FEB 19...	1349	40.0	1500	24400	7.9	3.6	--	10.9	45.0	11.4	49.9
FEB 19...	1353	20.0	1500	23200	7.9	3.7	--	11.1	39.2	4.7	40.9
FEB 19...	1355	3.0	1500	20200	8.2	4.4	--	12.6	45.6	2.6	46.2
FEB 26...	1630	59.0	1500	--	--	--	--	--	73.8	6.1	75.6
FEB 26...	1635	20.0	1500	--	--	--	--	--	53.6	2.7	54.1
FEB 26...	1640	3.0	1500	--	--	--	--	--	51.7	5.8	53.8
MAR 03...	1630	3.0	1500	14800	8.1	6.2	30.0	12.4	48.2	2.6	48.8
MAR 03...	1631	10.0	1500	20300	7.8	6.2	--	11.4	55.3	3.6	56.2
MAR 03...	1632	20.0	1500	25900	7.7	5.0	--	10.5	150	14.3	155
MAR 03...	1633	30.0	1500	26900	7.7	4.9	--	10.6	114	9.0	116
MAR 03...	1634	40.0	1500	28300	7.7	4.7	--	10.4	103	8.6	105
MAR 03...	1635	70.0	1500	29100	7.7	4.7	--	10.2	99.6	15.8	106
MAR 03...	1636	50.0	1500	28700	7.6	4.7	--	10.3	97.7	11.9	102
MAR 03...	1637	60.0	1500	29100	7.6	4.6	--	10.2	95.2	15.1	101
MAR 09...	1145	3.0	1500	21900	7.6	5.0	31.0	11.2	44.5	5.1	46.4
MAR 09...	1147	20.0	1500	22200	7.7	5.0	--	11.3	54.2	6.6	56.6
MAR 09...	1148	30.0	1500	22500	7.8	5.1	--	11.6	52.0	8.8	55.5
MAR 09...	1149	37.0	1500	21600	7.8	5.1	--	11.8	56.2	2.6	56.7
MAR 09...	1150	57.0	1500	20600	7.9	5.4	--	12.1	57.4	10.6	61.7
MAR 18...	1050	2.0	1500	16900	7.6	5.1	--	9.3	35.9	6.7	38.6

APPENDIX A-2

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

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION (FT FM BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
MAR	18...	72.0	1500	21100	7.7	5.4	33.0	9.0	41.1	6.7	43.8
	1057	60.0	1500	21000	7.7	5.4	--	9.1	39.8	8.6	43.4
	1058	50.0	1500	20900	7.7	5.4	--	9.1	38.9	8.4	42.4
	1059	40.0	1500	19900	7.6	5.4	--	9.1	38.6	5.3	40.7
	1100	30.0	1500	19500	7.6	5.4	--	9.0	31.8	9.6	36.0
	1101	20.0	1500	18600	7.6	5.3	--	9.0	31.8	5.9	34.2
	1102	14.0	1500	18300	7.6	5.3	--	9.0	29.1	6.9	32.0
	1103	7.0	1500	17300	7.6	5.2	--	9.2	29.3	6.6	32.0
	1445	3.0	1500	17800	7.9	7.6	42.0	10.6	17.3	2.9	18.4
	1447	9.0	1500	18800	7.9	6.8	--	9.9	--	--	--
	1449	15.0	1500	19800	7.8	6.4	--	9.5	15.8	3.2	17.1
	1451	30.0	1500	21400	7.9	6.0	--	9.5	20.5	6.0	23.1
	1453	46.0	1500	22100	7.8	5.8	--	8.8	26.2	7.5	29.5
	1455	61.0	1500	22300	7.8	5.9	--	8.9	27.4	6.2	30.0
APR	1900	56.0	1500	21900	7.4	8.5	--	6.9	12.0	11.1	17.2
	1903	35.0	1500	21600	7.3	8.6	--	7.1	11.7	5.7	14.4
	1906	27.0	1500	21200	7.3	8.8	--	7.3	10.8	8.2	13.8
	1909	15.0	1500	20000	7.3	9.7	--	7.8	7.9	5.8	10.6
	1910	3.0	1500	18600	7.3	10.3	--	8.0	4.8	4.5	6.9
	1224	63.0	1500	19500	7.2	11.0	18.0	7.2	5.7	42.2	26.0
	1226	48.0	1500	19400	7.3	11.0	--	7.1	4.3	19.8	13.8
	1228	31.0	1500	18800	7.3	11.0	--	7.3	3.0	11.7	8.6
	1230	15.0	1500	17500	7.3	11.1	--	7.4	5.1	11.7	10.7
	1515	3.0	1500	15700	7.4	11.8	--	7.8	4.9	6.7	8.1
	1515	2.0	1500	11400	7.2	13.7	--	8.5	2.1	5.3	4.6
	1516	68.0	1500	19300	7.1	12.8	19.0	7.5	11.2	18.0	19.8
	1517	60.0	1500	19200	7.2	12.8	--	7.5	9.7	13.4	16.1
	1518	50.0	1500	18300	7.2	12.8	--	7.6	7.3	8.0	11.0
	1519	40.0	1500	18100	7.2	12.8	--	7.6	6.6	6.6	9.8
	1520	30.0	1500	16200	7.2	12.9	--	8.0	4.7	6.3	7.7
	1521	20.0	1500	14200	7.2	13.1	--	8.0	3.3	6.3	6.3
	1521	10.0	1500	11800	7.2	13.6	--	8.5	2.8	5.0	5.2
	1325	3.0	1500	--	--	--	--	--	32.7	7.3	35.8
	1327	20.0	1500	--	--	--	--	--	29.5	6.2	32.1
	1329	42.0	1500	--	--	--	--	--	61.2	7.7	64.1
	1330	62.0	1500	--	--	--	--	--	65.0	23.6	75.5
	1330	2.0	1500	14000	7.9	15.6	--	9.2	52.5	4.9	54.1
	1332	8.0	1500	16100	7.9	15.4	--	9.0	--	--	--
	1333	15.0	1500	20800	7.9	13.9	--	7.5	71.0	9.3	74.5

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

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLLIA METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)
APR											
30...	1334	30.0	1500	23400	7.9	13.1	--	6.9	86.0	9.8	89.5
30...	1335	40.0	1500	24200	7.9	12.8	--	6.7	88.1	9.4	91.4
30...	1336	50.0	1500	25000	7.8	12.7	--	6.2	90.0	28.6	103
30...	1340	59.0	1500	25100	7.8	12.6	--	6.3	96.2	40.1	114
MAY											
04...	1350	3.0	1500	16100	7.9	15.5	24.0	--	47.4	7.6	50.4
04...	1351	20.0	1500	18600	7.8	14.5	--	--	57.8	11.5	62.6
04...	1352	40.0	1500	19500	7.8	14.2	--	--	58.8	13.0	64.3
04...	1355	69.0	1500	20600	7.9	14.0	--	--	62.3	11.4	66.9
05...	1813	3.0	900	20200	8.3	15.9	--	10.1	--	--	--
05...	1814	13.0	900	20400	8.4	15.8	--	10.6	--	--	--
05...	1816	23.0	900	20800	8.3	15.7	--	10.5	--	--	--
05...	1818	33.0	900	20900	8.3	15.5	--	10.1	--	--	--
05...	1821	43.0	900	21600	8.1	14.8	--	8.3	--	--	--
05...	1823	53.0	900	21800	8.1	14.6	--	7.7	--	--	--
05...	1824	63.0	900	21800	8.1	14.6	--	7.6	--	--	--
05...	1827	73.0	900	21800	8.0	14.6	--	7.6	--	--	--
05...	1900	3.0	900	20200	8.3	15.7	--	10.6	56.4	12.9	61.8
05...	1902	15.0	900	20800	8.4	15.5	--	10.7	56.5	23.5	67.1
05...	1904	30.0	900	21000	8.3	15.4	--	10.0	68.4	10.7	72.7
05...	1906	45.0	900	21900	8.1	14.5	--	7.8	58.3	21.4	67.8
05...	1908	60.0	900	21900	8.1	14.5	--	7.8	58.3	21.4	67.8
05...	1910	70.0	900	21900	8.1	14.5	--	7.8	58.3	21.4	67.8
05...	2025	3.0	900	20600	8.2	16.6	--	9.7	66.6	27.1	78.8
05...	2026	15.0	900	20700	8.3	15.7	--	10.5	--	--	--
05...	2027	30.0	900	21300	8.1	14.9	--	8.7	--	--	--
05...	2028	45.0	900	21600	8.1	14.7	--	8.2	--	--	--
05...	2029	60.0	900	21900	8.0	14.4	--	7.6	--	--	--
05...	2030	70.0	900	21900	8.0	14.4	--	7.5	--	--	--
05...	2110	3.0	900	20200	8.2	15.5	--	9.5	--	--	--
05...	2111	15.0	900	20800	8.3	15.4	--	10.4	--	--	--
05...	2112	30.0	900	21100	8.2	15.0	--	9.1	--	--	--
05...	2113	45.0	900	21700	8.1	14.6	--	8.2	--	--	--
05...	2114	60.0	900	21900	8.1	14.4	--	7.6	--	--	--
05...	2115	70.0	900	22000	8.1	14.4	--	7.5	--	--	--
05...	2205	3.0	900	19400	8.1	15.5	--	9.4	--	--	--
05...	2206	15.0	900	20500	8.2	15.5	--	10.3	--	--	--
05...	2207	30.0	900	21100	8.2	15.1	--	9.8	--	--	--
05...	2208	45.0	900	21700	8.1	14.6	--	8.3	--	--	--
05...	2209	60.0	900	21900	8.0	14.4	--	7.8	--	--	--

APPENDIX A-2

01660900 - POTOMAC R NR MORGANTOWN, MD --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	PHEOPHY -TIN A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)	(32217)
MAY	05....	69.0		900		21900		8.0		14.4		--		7.6		--		--	
	05....	3.0		900		19200		8.1		15.5		--		9.4		--		--	
	05....	15.0		900		20000		8.1		15.4		--		9.4		--		--	
	05....	30.0		900		20800		8.2		15.3		--		9.7		--		--	
	05....	45.0		900		21000		8.1		14.5		--		9.1		--		--	
	05....	60.0		900		21600		8.0		14.6		--		8.2		--		--	
	05....	71.0		900		21700		8.0		14.5		--		7.8		--		--	
	06....	3.0		900		18700		8.1		15.3		--		8.6		--		--	
	06....	15.0		900		19600		8.1		15.0		--		8.4		--		--	
	06....	30.0		900		19900		8.1		15.1		--		8.6		--		--	
	06....	45.0		900		20700		8.1		14.9		--		8.4		--		--	
	06....	60.0		900		21200		8.1		14.7		--		7.9		--		--	
	06....	69.0		900		21400		8.1		14.6		--		7.7		--		--	
	06....	3.0		900		17700		7.9		15.2		--		8.5		--		--	
	06....	15.0		900		18600		8.0		15.1		--		8.2		--		--	
	06....	30.0		900		19200		8.0		15.0		--		8.0		--		--	
	06....	45.0		900		20500		8.1		14.7		--		7.7		--		--	
	06....	60.0		900		20700		8.1		14.6		--		7.5		--		--	
	06....	70.0		900		21100		8.0		14.6		--		7.5		--		--	
	06....	3.0		900		17600		7.9		15.2		--		8.2		--		--	
	06....	15.0		900		19600		8.0		15.0		--		7.9		--		--	
	06....	30.0		900		19000		8.0		15.0		--		7.8		--		--	
	06....	45.0		900		20600		8.0		14.7		--		7.6		--		--	
	06....	60.0		900		20900		8.1		14.6		--		7.5		--		--	
	06....	70.0		900		21100		8.1		14.6		--		7.5		--		--	
	06....	3.0		900		17700		8.0		15.2		--		8.2		--		--	
	06....	15.0		900		19100		7.9		15.5		--		7.8		--		--	
	06....	30.0		900		19600		8.0		15.7		--		8.2		--		--	
	06....	45.0		900		20100		8.0		15.1		--		8.0		--		--	
	06....	60.0		900		20500		8.1		14.7		--		7.7		--		--	
	06....	70.0		900		21100		8.1		14.6		--		7.5		--		--	
	06....	3.0		900		17700		8.0		15.2		--		8.2		--		--	
	06....	15.0		900		19100		7.9		15.5		--		7.8		--		--	
	06....	30.0		900		19600		8.0		15.7		--		8.2		--		--	
	06....	45.0		900		20100		8.0		15.1		--		8.0		--		--	
	06....	60.0		900		20500		8.1		14.7		--		7.7		--		--	
	06....	70.0		900		21100		8.1		14.6		--		7.5		--		--	
	06....	3.0		900		18000		7.9		15.1		--		8.1		--		--	
	06....	15.0		900		19100		8.0		15.2		--		8.1		--		--	
	06....	30.0		900		19900		8.0		15.4		--		8.1		--		--	
	06....	45.0		900		20600		8.1		14.9		--		8.1		--		--	
	06....	60.0		900		21100		8.1		14.7		--		7.9		--		--	
	06....	71.0		900		21100		8.1		14.7		--		7.8		--		--	
	06....	3.0		900		18700		8.1		15.1		--		8.0		--		--	
	06....	15.0		900		19600		8.1		15.1		--		8.1		--		--	
	06....	30.0		900		20600		8.1		14.9		--		8.0		--		--	
	06....	45.0		900		21100		8.1		14.7		--		7.9		--		--	
	06....	60.0		900		21100		8.1		14.7		--		7.8		--		--	
	06....	71.0		900		18700		8.1		15.1		--		8.0		--		--	
	06....	15.0		900		19600		8.1		15.1		--		8.1		--		--	

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LDC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLIA FLUORO- METRIC CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLOURO- METRIC METHOD UNCORR. (UG/L)
MAY	0502	30.0	900	20600	8.3	15.1	--	8.6	--	--	--
	0503	45.0	900	21200	8.2	14.9	--	8.2	--	--	--
	0504	60.0	900	21700	8.2	14.7	--	7.7	--	--	--
	0505	73.0	900	21900	8.2	14.6	--	7.4	--	--	--
	0615	3.0	900	19900	8.2	15.0	--	8.6	--	--	--
	0616	15.0	900	20700	8.3	15.0	--	8.8	--	--	--
	0617	30.0	900	21300	8.2	14.7	--	--	--	--	--
	0618	45.0	900	21600	8.2	14.5	--	7.5	--	--	--
	0619	60.0	900	21700	8.2	14.5	--	7.5	--	--	--
	0620	70.0	900	21700	8.2	14.5	--	7.5	--	--	--
	06...	3.0	900	20400	8.2	15.0	--	7.5	59.9	16.1	65.9
	06...	15.0	900	20700	8.3	14.9	--	8.6	60.0	17.8	67.7
	06...	30.0	900	21400	8.2	14.6	--	7.7	65.6	14.5	71.7
	06...	45.0	900	21600	8.2	14.6	--	7.5	64.2	21.7	73.8
	06...	60.0	900	21700	8.2	14.6	--	7.5	65.4	25.4	76.8
	06...	73.0	900	--	8.2	14.5	--	7.4	68.9	29.5	82.2
	06...	3.0	900	20400	8.3	15.1	--	8.3	--	--	--
	06...	15.0	900	20700	8.3	15.0	--	8.5	--	--	--
	06...	30.0	900	20800	8.2	14.9	--	8.2	--	--	--
	06...	45.0	900	21500	8.2	14.7	--	7.7	--	--	--
	06...	60.0	900	21500	8.2	14.7	--	7.5	--	--	--
	06...	73.0	900	21500	8.2	14.6	--	7.5	--	--	--
	11...	58.0	1500	19900	7.8	16.0	36.0	6.3	20.0	8.7	23.9
	11...	50.0	1500	19400	7.9	16.3	--	6.8	26.7	8.5	30.5
	11...	40.0	1500	19300	7.9	16.3	--	7.2	29.1	8.0	32.6
	11...	30.0	1500	19100	7.9	16.4	--	7.4	32.6	8.4	36.2
	11...	20.0	1500	19100	7.9	16.4	--	7.4	33.4	8.7	37.2
	11...	10.0	1500	19100	7.9	16.4	--	7.4	33.4	8.7	37.2
	11...	2.0	1500	18900	7.9	16.5	--	7.6	39.4	11.5	44.4
	19...	7.0	1500	15500	7.8	17.2	--	6.5	35.7	11.3	40.7
	19...	12.0	1500	16900	7.8	17.3	--	6.2	34.0	9.8	38.2
	19...	20.0	1500	17700	7.8	17.3	--	5.7	31.8	9.4	35.9
	19...	30.0	1500	18300	7.7	17.3	--	4.9	41.8	14.6	48.3
	19...	40.0	1500	18800	7.6	17.3	--	4.2	41.7	12.7	47.2
	19...	50.0	1500	19000	7.5	17.3	--	3.9	49.0	15.1	55.7
	19...	60.0	1500	19200	7.5	17.3	--	3.5	50.8	13.9	56.8
	19...	70.0	1500	19200	7.5	17.3	--	3.5	67.7	12.0	72.6
	19...	78.0	1500	19300	7.4	17.3	--	3.4	33.8	15.7	41.0
	19...	2.0	1500	14300	7.9	17.0	36.0	7.6	44.2	12.2	49.4

APPENDIX A-2

01660800 -- POTOMAC R NR MORGANTOWN, MD --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLDRO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLDRO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
MAY											
28...	1335	57.0	1500	22300	7.0	17.8	36.0	.9	6.1	3.1	7.5
28...	1336	50.0	1500	21800	7.0	18.0	--	1.2	8.1	2.7	9.3
28...	1338	40.0	1500	20900	7.0	18.4	--	2.0	10.0	3.0	11.4
28...	1339	30.0	1500	18900	7.3	19.5	--	4.6	15.5	4.0	17.3
28...	1340	20.0	1500	17200	7.7	20.4	--	7.1	50.0	5.4	51.9
28...	1342	10.0	1500	17100	7.9	20.7	--	7.6	47.6	4.4	49.0
28...	1345	2.0	1500	16800	8.0	20.9	--	8.7	92.7	6.2	94.4
JUN											
01...	1420	78.0	1500	19900	7.0	20.1	36.0	2.1	21.8	3.5	23.1
01...	1421	70.0	1500	19700	7.0	20.2	--	2.2	20.0	1.6	20.5
01...	1422	60.0	1500	19700	7.0	20.2	--	2.1	19.6	1.8	20.2
01...	1423	50.0	1500	18600	7.0	20.5	--	3.0	16.8	2.0	17.5
01...	1424	40.0	1500	18100	7.0	20.7	--	3.3	15.1	2.2	15.9
01...	1425	30.0	1500	16600	7.0	21.0	--	3.6	13.3	3.4	14.8
01...	1426	20.0	1500	15500	7.0	21.2	--	3.8	12.0	4.1	13.8
01...	1428	10.0	1500	14200	6.9	21.3	--	3.8	9.8	4.8	11.9
01...	1430	2.0	1500	13200	7.0	21.7	--	5.2	46.2	5.5	48.2
01...	1450	10.0	4800	13800	7.0	21.1	21.0	4.8	25.0	9.9	29.4
01...	1452	2.0	4800	12500	7.0	21.2	--	4.8	35.4	7.4	38.5
09...	1113	7.0	1500	15000	7.7	24.3	--	7.0	37.7	9.6	41.8
09...	1114	12.0	1500	15700	7.5	24.3	--	6.5	41.1	6.6	43.7
09...	1115	20.0	1500	16400	7.2	23.4	--	5.9	15.3	4.3	17.2
09...	1116	25.0	1500	17700	7.1	23.2	--	4.0	6.5	5.2	8.9
09...	1117	30.0	1500	19800	6.8	22.0	--	1.8	4.9	3.9	6.7
09...	1118	40.0	1500	20600	6.8	21.7	--	1.2	3.2	3.4	4.9
09...	1119	50.0	1500	20900	6.8	21.6	--	1.0	3.1	3.8	4.9
09...	1121	60.0	1500	--	--	--	--	--	2.6	3.5	4.2
09...	1122	64.0	1500	20900	6.8	21.5	--	.9	2.4	3.4	4.0
09...	1123	66.0	1500	--	--	--	--	--	2.4	3.0	3.8
09...	1125	2.0	1500	14600	7.8	24.5	24.0	7.8	71.1	10.1	75.0
09...	1230	11.0	4800	14500	7.0	24.2	--	4.3	6.9	7.2	10.3
09...	1232	7.0	4800	14500	7.0	24.5	--	4.8	13.4	8.7	17.4
09...	1234	2.0	4800	14500	7.0	24.5	--	5.1	25.5	9.7	29.8
09...	1650	64.0	1500	19800	7.0	22.0	--	1.3	3.2	4.3	5.2
09...	1652	40.0	1500	16600	7.3	23.4	--	3.9	4.9	5.3	7.4
09...	1654	25.0	1500	15300	7.2	23.6	--	3.9	4.8	4.4	6.8
09...	1656	12.0	1500	11600	7.3	24.8	--	5.3	9.4	6.1	12.2
09...	1658	3.0	1500	11000	7.3	23.2	--	5.7	18.0	6.7	21.0
15...	1440	56.0	1500	22000	7.2	22.9	24.0	.0	2.6	5.9	5.5
15...	1442	40.0	1500	21800	7.2	22.9	--	.0	3.0	3.9	4.9

01660800 POTOMAC R NR MORGANTOWN, MD --Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LCC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCI DISK)	(IN)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLDRD- PHYLLI A FLUORO- METRIC METHOD CORR, (UG/L)	(32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLDRD- PHYLL A FLURO- METRIC METHOD (UG/L)	(32217)
JUN																				
15...	1443	30.0	1500	17600	17600	7.3	7.3	24.0	---	---	---	2.0	2.0	2.9	2.9	3.4	3.4	4.5	4.5	
15...	1444	25.0	1500	16500	16500	7.3	7.3	24.3	---	---	---	2.5	2.5	3.3	3.3	2.6	2.6	4.6	4.6	
15...	1445	20.0	1500	14800	14800	7.3	7.3	24.7	---	---	---	3.1	3.1	3.5	3.5	4.8	4.8	5.8	5.8	
15...	1446	12.0	1500	13500	13500	7.3	7.3	25.0	---	---	---	3.9	3.9	4.7	4.7	3.4	3.4	6.3	6.3	
15...	1448	7.0	1500	12600	12600	7.3	7.3	25.3	---	---	---	4.1	4.1	7.0	7.0	3.6	3.6	8.7	8.7	
15...	1450	2.0	1500	11600	11600	7.6	7.6	25.6	---	---	---	5.6	5.6	20.9	20.9	5.0	5.0	23.0	23.0	
25...	1130	58.0	1500	22700	22700	7.3	7.3	23.9	30.0	30.0	---	.1	.1	2.9	2.9	5.7	5.7	5.6	5.6	
25...	1131	40.0	1500	21100	21100	7.3	7.3	24.1	---	---	---	.0	.0	4.0	4.0	5.1	5.1	6.5	6.5	
25...	1132	30.0	1500	17500	17500	7.5	7.5	25.9	---	---	---	2.2	2.2	---	---	---	---	---	---	
25...	1134	20.0	1500	14900	14900	7.7	7.7	26.4	---	---	---	4.7	4.7	18.6	18.6	4.7	4.7	20.6	20.6	
25...	1136	12.0	1500	14700	14700	7.8	7.8	26.5	---	---	---	5.1	5.1	37.4	37.4	6.0	6.0	39.8	39.8	
25...	1138	6.0	1500	14700	14700	7.9	7.9	26.6	---	---	---	5.8	5.8	38.7	38.7	4.7	4.7	40.4	40.4	
25...	1140	2.0	1500	14200	14200	8.8	8.8	27.6	---	---	---	10.8	10.8	260	260	23.0	23.0	245	245	
30...	1900	2.0	1500	17600	17600	7.6	7.6	25.7	30.0	30.0	---	5.3	5.3	28.6	28.6	5.3	5.3	30.8	30.8	
30...	1902	7.0	1500	18300	18300	7.5	7.5	25.8	---	---	---	4.8	4.8	26.4	26.4	5.5	5.5	28.7	28.7	
30...	1903	10.0	1500	18400	18400	7.6	7.6	25.8	---	---	---	5.1	5.1	34.1	34.1	4.2	4.2	35.7	35.7	
30...	1904	15.0	1500	18600	18600	7.7	7.7	25.6	---	---	---	5.6	5.6	40.9	40.9	6.0	6.0	43.2	43.2	
30...	1905	20.0	1500	19500	19500	7.7	7.7	25.2	---	---	---	5.1	5.1	33.6	33.6	4.2	4.2	35.2	35.2	
30...	1906	25.0	1500	20700	20700	7.3	7.3	24.4	---	---	---	2.4	2.4	24.3	24.3	6.7	6.7	27.2	27.2	
30...	1907	30.0	1500	20800	20800	7.2	7.2	24.3	---	---	---	2.1	2.1	25.0	25.0	4.2	4.2	26.7	26.7	
30...	1908	40.0	1500	22000	22000	7.0	7.0	23.9	---	---	---	.6	.6	12.0	12.0	5.8	5.8	14.6	14.6	
30...	1909	50.0	1500	22000	22000	7.0	7.0	23.8	---	---	---	.6	.6	14.4	14.4	5.8	5.8	17.0	17.0	
30...	1910	68.0	1500	22300	22300	7.0	7.0	23.8	---	---	---	.5	.5	17.4	17.4	7.3	7.3	20.7	20.7	
JUL																				
07...	1620	59.0	1500	18500	18500	6.9	6.9	25.0	24.0	24.0	---	.9	.9	6.1	6.1	32.5	32.5	21.8	21.8	
07...	1621	50.0	1500	18500	18500	6.9	6.9	25.0	---	---	---	.8	.8	5.0	5.0	6.3	6.3	8.0	8.0	
07...	1622	40.0	1500	17900	17900	6.9	6.9	25.2	---	---	---	1.1	1.1	4.4	4.4	4.1	4.1	6.4	6.4	
07...	1624	30.0	1500	17700	17700	6.9	6.9	25.3	---	---	---	1.3	1.3	5.2	5.2	5.9	5.9	8.0	8.0	
07...	1626	21.0	1500	17500	17500	6.9	6.9	25.4	---	---	---	2.3	2.3	4.9	4.9	4.4	4.4	7.0	7.0	
07...	1627	14.0	1500	14100	14100	6.9	6.9	26.1	---	---	---	3.6	3.6	5.7	5.7	5.0	5.0	8.0	8.0	
07...	1629	7.0	1500	13300	13300	7.1	7.1	26.9	---	---	---	4.1	4.1	11.8	11.8	5.0	5.0	14.1	14.1	
07...	1630	2.0	1500	12900	12900	7.3	7.3	26.9	---	---	---	4.1	4.1	22.4	22.4	3.8	3.8	23.8	23.8	
15...	1315	2.0	1500	16000	16000	7.5	7.5	27.1	---	---	---	5.7	5.7	27.6	27.6	5.2	5.2	29.8	29.8	
15...	1320	78.0	1500	24000	24000	7.0	7.0	25.7	26.0	26.0	---	.0	.0	2.5	2.5	5.5	5.5	5.2	5.2	
15...	1321	68.0	1500	23800	23800	6.9	6.9	25.8	---	---	---	.0	.0	2.3	2.3	4.7	4.7	4.7	4.7	
15...	1322	46.0	1500	23700	23700	6.9	6.9	25.8	---	---	---	.4	.4	2.6	2.6	5.0	5.0	5.0	5.0	
15...	1323	36.0	1500	22900	22900	6.9	6.9	25.9	---	---	---	.5	.5	1.3	1.3	10.2	10.2	6.2	6.2	
15...	1324	26.0	1500	21000	21000	7.0	7.0	26.4	---	---	---	1.5	1.5	6.8	6.8	4.7	4.7	8.9	8.9	
15...	1325	20.0	1500	19400	19400	7.0	7.0	26.5	---	---	---	2.3	2.3	9.2	9.2	5.6	5.6	11.8	11.8	
15...	1326	13.0	1500	19000	19000	7.1	7.1	27.2	---	---	---	2.9	2.9	10.2	10.2	5.3	5.3	12.7	12.7	

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

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOCATION SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCTI- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUL 15...	1327	7.0	1500	17400	7.3	27.3	--	4.5	22.2	5.5	24.6
24...	1045	63.0	1500	21700	7.3	26.4	32.0	2.1	8.5	11.5	13.9
24...	1047	36.0	1500	20900	7.4	26.3	--	3.1	11.1	9.4	15.5
24...	1049	20.0	1500	19900	7.5	26.4	--	3.7	27.2	6.5	30.0
24...	1051	10.0	1500	20100	7.4	26.4	--	3.6	61.5	9.1	65.0
24...	1055	2.0	1500	19900	7.6	26.5	--	4.3	83.0	4.6	84.0
27...	1830	1.6	1500	17100	7.5	28.3	--	6.6	13.7	4.1	15.5
27...	1835	67.0	1500	20100	7.0	27.0	--	3.7	4.2	12.4	10.2
27...	1837	57.0	1500	20000	7.0	27.0	--	3.7	3.4	5.2	5.9
27...	1838	38.0	1500	20000	7.0	27.0	--	3.8	3.1	5.3	5.7
27...	1839	29.0	1500	19800	7.0	27.1	--	3.7	3.0	4.9	5.4
27...	1840	19.0	1500	18800	7.0	27.5	--	4.0	4.4	4.9	6.6
27...	1841	13.0	1500	18200	7.1	27.8	--	4.8	10.4	5.1	12.7
27...	1842	6.0	1500	18000	7.2	27.9	--	5.1	15.4	4.4	17.3
AUG 07...	1100	2.0	1500	18100	7.3	26.8	34.0	3.7	11.2	5.5	13.8
07...	1103	10.0	1500	18300	7.2	26.7	--	3.5	5.9	5.3	8.4
07...	1104	20.0	1500	19900	7.2	26.7	--	2.9	6.9	3.5	8.5
07...	1106	35.0	1500	21000	7.2	26.6	--	2.3	3.9	6.1	6.8
07...	1108	50.0	1500	22800	7.1	26.5	--	.8	2.2	4.2	4.2
07...	1110	57.0	1500	23000	7.0	26.4	--	.7	1.4	4.5	3.6
14...	1145	56.0	1500	23600	7.1	27.0	30.0	.5	1.6	5.9	4.5
14...	1148	30.0	1500	22500	7.1	27.1	--	.8	--	--	--
14...	1150	20.0	1500	20200	7.2	27.2	--	1.9	2.8	3.9	4.6
14...	1152	12.0	1500	17500	7.3	27.3	--	3.3	5.6	5.6	8.3
14...	1153	5.0	1500	16400	7.4	27.3	--	4.6	13.9	5.6	16.4
14...	1155	2.0	1500	16200	7.4	27.6	--	4.9	18.1	4.8	20.2
17...	1535	70.0	1500	22100	6.9	27.0	31.0	2.2	4.6	10.5	9.6
17...	1537	48.0	1500	21800	6.9	27.0	--	2.2	3.6	4.5	5.8
17...	1539	29.0	1500	21100	6.9	27.1	--	2.3	3.4	4.3	5.4
17...	1540	19.0	1500	20500	7.0	27.0	--	2.7	3.5	4.4	5.6
17...	1541	13.0	1500	20400	7.0	27.3	--	3.2	4.3	3.6	6.0
17...	1542	6.0	1500	20300	7.0	28.3	--	3.6	7.2	3.8	8.9
17...	1543	1.6	1500	20300	7.0	28.2	--	3.7	7.2	4.8	9.5
28...	1020	55.0	1500	21000	7.2	24.3	26.0	5.0	4.3	7.1	7.3
28...	1022	45.0	1500	20800	7.2	24.2	--	5.1	4.1	6.8	7.3
28...	1024	30.0	1500	19800	7.2	24.2	--	5.1	4.3	4.8	6.6
28...	1026	13.0	1500	19600	7.2	24.2	--	5.2	4.2	4.6	6.4
28...	1028	6.0	1500	19700	7.2	24.2	--	5.1	4.5	4.0	6.4
28...	1029	1.0	1500	19400	7.2	24.3	--	5.3	4.8	3.4	6.4

01660800

- POTOMAC R NR MORGANTOWN, MD --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
SEP 02....	1530	58.0	1500	20500	7.6	25.4	--	4.9	3.4	5.2	5.9
02....	1532	50.0	1500	20200	7.6	25.3	--	4.9	3.5	5.0	5.9
02....	1534	25.0	1500	19300	7.5	25.3	--	5.0	4.1	4.2	6.1
02....	1536	13.0	1500	18900	7.6	25.3	--	5.3	3.5	4.0	5.3
02....	1538	6.0	1500	18600	7.6	25.4	--	5.5	5.8	3.5	7.4
02....	1539	1.0	1500	18500	7.6	25.4	--	5.6	7.6	3.8	9.4
10....	1225	57.0	1500	21900	7.1	24.4	32.0	3.9	2.7	16.2	10.5
10....	1227	48.0	1500	21300	7.1	24.4	--	4.3	2.9	4.4	5.0
10....	1228	35.0	1500	21300	7.1	24.4	--	4.4	2.2	4.4	4.3
10....	1229	22.0	1500	20000	7.1	24.5	--	4.8	2.3	3.8	4.2
10....	1230	13.0	1500	19000	7.1	24.8	--	5.1	2.9	3.9	4.7
10....	1231	6.0	1500	19100	7.1	25.5	--	5.5	6.0	3.2	7.5
10....	1232	1.6	1500	17400	7.2	24.9	--	6.0	6.9	2.6	8.0
17....	1351	1.0	1500	18900	7.1	24.4	24.0	4.4	7.0	2.7	8.2
17....	1352	6.0	1500	20000	7.1	24.3	--	3.9	2.4	2.7	3.7
17....	1354	12.0	1500	20400	7.1	24.1	--	3.8	2.2	3.2	3.7
17....	1355	20.0	1500	20800	7.1	24.1	--	3.6	2.1	2.8	3.4
17....	1356	30.0	1500	21500	7.0	24.1	--	3.3	--	--	--
17....	1357	40.0	1500	22200	7.0	24.0	--	3.1	2.2	3.9	4.1
17....	1358	50.0	1500	22300	7.0	24.1	--	2.9	2.3	4.9	4.6
17....	1400	62.0	1500	22400	7.0	24.1	--	2.8	2.6	5.1	5.1
21....	1548	1.6	1500	18600	7.3	23.2	--	6.2	5.9	2.7	7.2
21....	1549	6.0	1500	18600	7.4	23.2	--	6.2	5.4	2.2	6.5
21....	1551	13.0	1500	18600	7.3	23.2	--	6.2	4.6	2.7	5.9
21....	1552	19.0	1500	18700	7.3	23.3	--	6.2	3.7	2.6	5.0
21....	1553	32.0	1500	20900	7.2	22.3	--	5.2	2.4	3.0	3.8
21....	1554	51.0	1500	22000	7.2	22.3	--	5.1	2.2	3.9	4.1
21....	1555	67.0	1500	22100	7.3	22.3	66.0	5.1	3.0	4.3	5.0

381516076503000 - POTOMAC RIVER AT COBB ISLAND

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLDRO- PHYLLIA FLUORO- METRIC CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLDRO- PHYLL A FLOURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
OCT											
21...	1840	2.0	6600	20800	8.4	17.7	---	11.0	26.3	2.9	27.4
21...	1842	6.0	6600	21900	8.3	17.7	---	10.5	27.5	3.4	28.8
21...	1843	10.0	6600	24800	7.9	18.0	---	6.9	20.4	2.6	21.4
21...	1845	23.0	6600	28600	7.5	18.4	62.0	4.5	18.4	8.7	22.3
22...	0820	2.0	6600	20700	7.8	16.8	---	9.2	25.5	2.9	26.6
22...	0821	6.0	6600	20800	7.8	16.9	---	9.0	24.2	4.5	26.0
22...	0822	10.0	6600	22700	7.6	17.5	---	7.6	22.5	4.5	24.4
22...	0823	16.0	6600	26700	7.1	17.9	---	5.0	13.7	5.4	16.1
22...	0825	18.0	6600	28200	7.1	17.9	65.0	4.9	12.4	6.6	15.4
22...	0845	2.0	20100	19900	7.8	16.5	---	9.4	26.2	.8	26.2
22...	0846	6.0	20100	19900	7.8	16.8	---	9.3	27.5	.8	27.5
22...	0847	10.0	20100	20000	7.8	16.8	---	9.2	23.0	2.7	23.9
22...	0848	16.0	20100	21300	7.8	17.2	---	8.5	27.9	5.6	30.2
22...	0850	20.0	20100	25600	6.9	16.9	60.0	4.3	13.5	6.0	16.2
NOV											
17...	1540	2.0	6600	22900	8.4	9.4	---	11.0	24.5	3.9	26.0
17...	1541	6.0	6600	25300	8.1	10.4	---	9.8	13.0	5.0	15.2
17...	1542	13.0	6600	26600	8.0	10.6	---	9.1	13.1	4.7	15.2
17...	1545	21.0	6600	28900	7.7	11.1	60.0	8.3	13.0	7.6	16.5
17...	1605	2.0	20100	21700	8.4	9.6	---	11.3	28.9	5.8	31.3
17...	1606	6.0	20100	22900	8.3	9.8	---	10.3	15.5	4.2	17.3
17...	1607	10.0	20100	24200	8.1	10.3	---	9.7	19.8	3.5	21.2
17...	1610	17.0	20100	24800	8.1	10.3	48.0	9.6	17.1	2.6	18.1
DEC											
15...	1320	2.0	6600	25800	8.3	6.5	---	11.6	19.6	3.2	20.9
15...	1321	10.0	6600	25800	8.2	6.6	---	11.4	20.0	2.5	20.9
15...	1322	15.0	6600	25900	8.2	6.6	78.0	11.5	20.7	3.3	22.0
15...	1325	22.0	6600	28500	8.0	7.3	---	10.0	31.5	4.0	33.0
15...	1350	2.0	20100	24500	8.2	6.4	48.0	11.4	28.8	4.6	30.7
15...	1352	6.0	20100	24600	8.2	6.4	---	11.4	32.4	5.5	34.7
15...	1353	10.0	20100	24800	8.2	6.4	---	11.2	31.4	3.9	32.9
15...	1355	15.0	20100	24800	8.2	6.4	48.0	11.2	32.6	3.6	33.9
JAN											
22...	1110	2.0	6600	25200	8.2	.4	98.0	13.7	9.8	1.9	10.6
22...	1111	7.0	6600	26100	8.2	.3	---	13.6	12.1	2.4	13.1
22...	1112	10.0	6600	27200	8.2	.3	---	13.6	11.9	3.6	3.4
22...	1113	15.0	6600	28200	8.2	.3	---	13.5	---	---	---
22...	1114	20.0	6600	28500	8.1	.2	---	13.2	21.6	3.5	23.0
22...	1115	24.0	6600	28600	8.1	.2	---	13.1	21.0	4.3	22.8
22...	1125	2.0	20100	25200	8.1	.4	90.0	13.7	13.2	1.8	13.9

381516076503000 - POTOMAC RIVER AT COBB ISLAND
 WATER QUALITY DATA. WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
 --Cont.

DATE	TIME	SAMP- DEPTH (FT)	(000003)	SAMPLE LJC- ATION, CRSS SECTION (FT FM L BANK)	(000009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	(000095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLDRO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLDRO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
JAN 22...	1127	7.0	20100	25200	8.2	.4	--	13.7	13.7	13.1	13.7	13.1	13.7	13.7	13.7	13.7	13.7	1.7	1.7	13.7	13.7
JAN 22...	1128	10.0	20100	27300	8.1	.2	--	13.0	13.0	23.8	13.0	23.8	13.0	13.0	23.8	23.8	23.8	2.5	2.5	24.7	24.7
JAN 22...	1130	15.0	20100	27800	8.1	.2	--	12.8	12.8	26.1	12.8	26.1	12.8	12.8	26.1	26.1	26.1	2.3	2.3	26.9	26.9
FEB 03...	0940	23.0	6600	29900	7.9	.7	--	11.8	11.8	--	--	--	11.8	11.8	--	--	--	--	--	--	--
FEB 03...	0941	3.0	6600	27100	8.0	.5	--	11.9	11.9	--	--	--	11.9	11.9	--	--	--	--	--	--	--
FEB 04...	1715	18.0	20100	27600	8.0	1.0	72.0	10.9	10.9	35.4	10.9	35.4	10.9	10.9	35.4	35.4	35.4	5.2	5.2	37.4	37.4
FEB 04...	1716	15.0	20100	27600	8.1	1.0	--	10.6	10.6	33.4	10.6	33.4	10.6	10.6	33.4	33.4	33.4	5.7	5.7	35.7	35.7
FEB 04...	1717	10.0	20100	26600	8.1	.9	--	10.7	10.7	17.8	10.7	17.8	10.7	10.7	17.8	17.8	17.8	2.5	2.5	18.8	18.8
FEB 04...	1718	7.0	20100	26600	8.2	.8	--	10.8	10.8	16.9	10.8	16.9	10.8	10.8	16.9	16.9	16.9	4.6	4.6	18.9	18.9
FEB 04...	1720	2.0	20100	26600	8.2	.9	--	10.8	10.8	15.9	10.8	15.9	10.8	10.8	15.9	15.9	15.9	2.8	2.8	17.0	17.0
FEB 04...	1735	2.0	6600	27200	8.2	.8	--	10.8	10.8	19.1	10.8	19.1	10.8	10.8	19.1	19.1	19.1	2.6	2.6	20.1	20.1
FEB 04...	1736	7.0	6600	27100	8.1	.8	--	10.8	10.8	18.1	10.8	18.1	10.8	10.8	18.1	18.1	18.1	2.5	2.5	19.0	19.0
FEB 04...	1737	10.0	6600	27100	8.1	.9	--	10.7	10.7	18.1	10.7	18.1	10.7	10.7	18.1	18.1	18.1	3.5	3.5	19.5	19.5
FEB 04...	1738	15.0	6600	27100	8.1	.9	--	10.6	10.6	19.5	10.6	19.5	10.6	10.6	19.5	19.5	19.5	2.6	2.6	20.5	20.5
FEB 04...	1739	20.0	6600	28700	8.0	.8	--	10.6	10.6	23.6	10.6	23.6	10.6	10.6	23.6	23.6	23.6	6.5	6.5	26.4	26.4
FEB 04...	1740	23.0	6600	29300	7.8	.9	60.0	10.6	10.6	27.1	10.6	27.1	10.6	10.6	27.1	27.1	27.1	4.1	4.1	28.7	28.7
FEB 05...	0825	23.0	6600	27300	8.0	.5	--	12.6	12.6	27.5	12.6	27.5	12.6	12.6	27.5	27.5	27.5	2.7	2.7	28.4	28.4
FEB 05...	0827	20.0	6600	26400	8.1	.1	--	12.8	12.8	18.1	12.8	18.1	12.8	12.8	18.1	18.1	18.1	1.3	1.3	18.5	18.5
FEB 05...	0828	15.0	6600	26500	8.1	.0	--	13.0	13.0	17.9	13.0	17.9	13.0	13.0	17.9	17.9	17.9	.8	.8	17.9	17.9
FEB 05...	0829	9.0	6600	26500	8.2	.0	--	13.0	13.0	17.9	13.0	17.9	13.0	13.0	17.9	17.9	17.9	.5	.5	17.9	17.9
FEB 05...	0830	2.0	6600	26500	8.2	.0	--	13.0	13.0	16.9	13.0	16.9	13.0	13.0	16.9	16.9	16.9	2.4	2.4	17.8	17.8
MAR 03...	1445	3.0	6600	28200	8.0	5.6	--	11.9	11.9	15.6	11.9	15.6	11.9	11.9	15.6	15.6	15.6	2.2	2.2	16.4	16.4
MAR 03...	1446	10.0	6600	29300	8.0	5.6	--	11.9	11.9	14.8	11.9	14.8	11.9	11.9	14.8	14.8	14.8	2.8	2.8	15.9	15.9
MAR 03...	1447	15.0	6600	29300	7.9	5.2	--	12.0	12.0	19.3	12.0	19.3	12.0	12.0	19.3	19.3	19.3	2.8	2.8	20.4	20.4
MAR 03...	1448	20.0	6600	30700	7.9	4.4	--	11.5	11.5	23.4	11.5	23.4	11.5	11.5	23.4	23.4	23.4	6.0	6.0	26.0	26.0
MAR 03...	1450	23.0	6600	30700	7.9	4.5	48.0	11.6	11.6	26.4	11.6	26.4	11.6	11.6	26.4	26.4	26.4	9.8	9.8	30.8	30.8
MAR 03...	1510	3.0	20100	19000	8.4	6.3	--	13.1	13.1	23.6	13.1	23.6	13.1	13.1	23.6	23.6	23.6	3.5	3.5	24.9	24.9
MAR 03...	1513	10.0	20100	20600	8.2	6.0	--	12.8	12.8	32.7	12.8	32.7	12.8	12.8	32.7	32.7	32.7	5.5	5.5	34.9	34.9
MAR 03...	1515	15.0	20100	24800	8.0	5.3	54.0	12.0	12.0	63.0	12.0	63.0	12.0	12.0	63.0	63.0	63.0	9.1	9.1	66.5	66.5
MAR 18...	1150	2.0	20100	21000	7.7	5.2	--	9.1	9.1	48.1	9.1	48.1	9.1	9.1	48.1	48.1	48.1	3.5	3.5	49.2	49.2
MAR 18...	1151	7.0	20100	21000	7.7	5.2	--	9.0	9.0	43.0	9.0	43.0	9.0	9.0	43.0	43.0	43.0	7.6	7.6	46.1	46.1
MAR 18...	1152	13.0	20100	21400	7.7	5.2	--	9.0	9.0	39.3	9.0	39.3	9.0	9.0	39.3	39.3	39.3	6.9	6.9	42.1	42.1
MAR 18...	1153	16.0	20100	21700	7.7	5.2	--	9.1	9.1	44.4	9.1	44.4	9.1	9.1	44.4	44.4	44.4	2.2	2.2	44.9	44.9
MAR 18...	1155	18.0	20100	21800	7.7	5.2	31.0	9.1	9.1	45.0	9.1	45.0	9.1	9.1	45.0	45.0	45.0	5.5	5.5	47.0	47.0
MAR 18...	1210	2.0	6600	24600	7.9	5.1	--	9.2	9.2	29.5	9.2	29.5	9.2	9.2	29.5	29.5	29.5	4.4	4.4	31.2	31.2
MAR 18...	1211	7.0	6600	24500	7.9	5.2	--	9.1	9.1	29.5	9.1	29.5	9.1	9.1	29.5	29.5	29.5	3.0	3.0	30.5	30.5
MAR 18...	1212	13.0	6600	24600	7.9	5.2	--	9.2	9.2	28.3	9.2	28.3	9.2	9.2	28.3	28.3	28.3	5.6	5.6	30.6	30.6
MAR 18...	1213	18.0	6600	24500	7.9	5.2	--	9.2	9.2	28.9	9.2	28.9	9.2	9.2	28.9	28.9	28.9	4.2	4.2	30.5	30.5

381516076503000 - POTOMAC RIVER AT COBB ISLAND
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

--Cont.

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LCC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLURO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)
MAR 18...	1215	24.0	6600	24500	7.9	5.2	36.0	9.3	29.0	4.8	31.0
APR 02...	1720	19.0	6600	25700	7.7	7.7	--	7.5	38.2	2.6	39.0
02...	1721	16.0	6600	24000	8.0	9.6	--	10.0	32.7	2.4	33.3
02...	1722	10.0	6600	23100	8.2	10.9	--	11.8	31.6	2.0	32.1
02...	1730	3.0	6600	22900	8.1	11.4	--	12.0	30.7	2.0	31.2
02...	1800	19.0	20100	25200	7.2	7.4	42.0	5.1	22.9	7.7	26.2
02...	1802	14.0	20100	20700	7.8	10.4	--	10.9	--	--	--
02...	1803	10.0	20100	20600	8.0	10.7	--	11.1	28.2	4.6	30.0
02...	1810	3.0	20100	19500	7.8	10.9	--	10.5	17.6	4.4	19.5
15...	1605	17.0	20100	20600	7.7	13.0	29.0	9.6	32.7	8.1	36.2
15...	1606	12.0	20100	20000	7.5	13.0	--	9.1	21.8	6.9	24.8
15...	1607	7.0	20100	19900	7.5	13.1	--	9.1	19.4	6.3	22.2
15...	1610	2.0	20100	19900	7.5	13.1	--	9.1	18.3	5.7	20.8
15...	1634	24.0	6600	23900	8.1	12.5	38.0	9.8	98.8	24.8	109
15...	1635	19.0	6600	21800	8.1	13.1	--	11.4	82.2	12.9	87.2
15...	1636	12.0	6600	21000	8.1	13.3	--	11.7	51.7	12.0	56.8
15...	1637	7.0	6600	20800	8.1	13.3	--	11.7	55.8	4.6	57.2
15...	1640	2.0	6600	20800	8.1	13.4	--	11.9	51.9	9.9	55.9
16...	0740	2.0	6600	19000	7.6	12.2	--	9.3	20.7	5.6	23.1
16...	0741	7.0	6600	20400	8.0	12.5	--	10.4	43.5	8.5	47.0
16...	0742	12.0	6600	20800	8.0	12.5	--	10.7	47.6	10.3	51.9
16...	0743	19.0	6600	22700	8.1	12.8	--	10.7	80.6	3.3	81.0
16...	0745	23.0	6600	23100	8.0	12.4	48.0	9.1	78.8	17.4	86.1
MAY 19...	1600	2.0	20100	17600	8.5	17.1	--	10.7	42.9	5.0	44.7
19...	1601	7.0	20100	17600	8.5	17.1	--	10.7	40.6	6.0	42.9
19...	1602	13.0	20100	17900	8.5	17.2	--	10.7	38.0	3.5	39.2
19...	1605	19.0	20100	18400	8.5	17.2	48.0	9.9	41.3	4.2	42.7
19...	1630	29.0	6600	25300	7.7	16.2	48.0	2.2	37.2	11.7	42.4
19...	1632	20.0	6600	21800	8.0	17.1	--	6.1	37.6	8.9	41.4
19...	1633	12.0	6600	17500	8.4	16.9	--	10.1	42.6	5.6	44.7
19...	1634	7.0	6600	17400	8.4	16.8	--	10.5	43.0	6.3	45.4
19...	1635	2.0	6600	17300	8.4	16.8	--	10.8	46.2	6.5	48.7
20...	0725	2.0	6600	17600	8.3	16.4	--	9.3	42.6	8.2	45.9
20...	0726	7.0	6600	18100	8.3	16.5	--	9.0	52.7	5.4	54.6
20...	0727	12.0	6600	18900	8.3	16.7	--	8.4	38.3	3.8	39.6
20...	0728	20.0	6600	19000	8.0	16.7	48.0	5.9	38.6	10.0	42.9
20...	0729	25.0	6600	24900	7.7	16.2	--	2.8	52.7	7.2	55.4
20...	0730	30.0	6600	25800	7.7	16.0	--	1.9	40.2	12.7	45.7

APPENDIX A-2

381516076503000 - POTOMAC RIVER AT COBB ISLAND

--Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (JMH05)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCI DISK) (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLLA FLUORO- METRIC METHOD CORR. (JG/L)	(32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLLA FLOURO- METRIC METHOD UNCORR. (UG/L)	(32217)
MAY																					
28...	1446	23.0		6600		25000		7.2		17.3		51.0		.9		16.8		3.8		18.4	
28...	1447	18.0		6600		19600		8.2		20.7		--		7.7		21.3		2.4		22.2	
28...	1448	12.0		6600		19400		8.3		21.1		--		8.3		32.2		2.1		32.8	
28...	1449	7.0		6600		19200		8.3		21.2		--		8.5		31.6		4.1		33.1	
28...	1450	2.0		6600		19100		8.7		21.2		--		8.7		36.9		4.1		38.4	
JUN																					
01...	1325	20.0		20100		20900		7.2		19.8		60.0		1.4		19.8		3.3		21.1	
01...	1326	13.0		20100		17300		8.5		22.4		--		9.6		25.1		5.0		27.2	
01...	1327	7.0		20100		17300		8.5		22.4		--		9.9		29.7		4.8		31.6	
01...	1328	2.0		20100		17300		8.5		22.4		--		9.8		29.3		4.9		31.2	
01...	1345	28.0		6600		24000		7.2		18.5		66.0		.7		5.1		3.2		6.6	
01...	1346	20.0		6600		23900		7.1		18.5		--		.7		4.6		1.9		5.4	
01...	1347	15.0		6600		23100		7.1		18.9		--		.9		9.0		2.8		9.2	
01...	1348	10.0		6600		21800		8.2		16.9		--		8.4		21.1		3.7		22.6	
01...	1355	2.0		6600		16900		8.2		21.8		--		8.8		23.3		5.5		25.6	
09...	1525	18.0		20100		25200		7.1		20.8		48.0		.6		3.0		3.0		4.4	
09...	1526	14.0		20100		25200		7.1		20.7		--		.6		4.8		5.1		7.2	
09...	1527	10.0		20100		19800		7.7		23.3		--		5.4		39.8		10.0		44.1	
09...	1528	3.0		20100		17000		8.0		24.0		--		8.1		76.2		12.6		81.2	
09...	1545	25.0		6600		25800		7.2		20.3		--		.7		7.0		4.5		9.1	
09...	1546	18.0		6600		24200		7.2		21.3		--		.2		17.4		4.5		19.4	
09...	1547	12.0		6600		19300		7.8		23.4		--		5.9		26.6		8.2		30.2	
09...	1548	6.0		6600		15500		8.4		24.8		--		10.3		94.4		9.9		97.9	
09...	1549	2.0		6600		15500		8.4		25.0		--		10.6		105		13.5		110	
30...	2020	2.0		6600		16800		8.6		25.4		--		9.3		21.5		3.2		22.8	
30...	2022	7.0		6600		17200		8.5		25.3		--		8.9		20.3		4.1		22.0	
30...	2023	12.0		6600		20800		7.3		24.6		--		2.4		30.5		5.1		32.6	
30...	2024	20.0		6600		27300		7.2		22.4		--		.0		2.5		3.3		4.0	
30...	2025	24.0		6600		28100		7.2		22.2		34.0		.0		2.4		3.0		3.8	
JUL																					
01...	1005	2.0		6600		20000		7.7		24.7		--		5.4		28.6		6.0		31.0	
01...	1006	7.0		6600		20000		7.7		24.7		--		5.4		20.9		8.4		24.6	
01...	1007	12.0		6600		20000		7.7		24.6		--		5.2		22.8		3.5		24.2	
01...	1008	20.0		6600		20200		7.6		24.4		--		4.6		22.8		4.4		24.6	
01...	1015	24.0		6600		26400		7.0		22.9		--		.0		5.0		4.4		7.1	
01...	1035	2.0		20100		16900		8.2		25.3		--		6.9		25.3		3.0		27.4	
01...	1036	7.0		20100		16900		8.2		25.2		--		6.9		24.8		5.6		27.1	
01...	1037	13.0		20100		17000		8.2		25.2		--		6.9		17.0		5.0		19.2	
01...	1040	22.0		20100		17500		8.1		25.0		36.0		6.8		12.7		5.1		15.0	
15...	1100	2.0		6600		20000		7.7		27.3		--		5.6		25.3		4.5		27.2	

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE L3C- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL/A FLUORO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLDRO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)	(32217)
JUL																					
15...	1101	7.0	6600	20400		20400		7.5		27.0				4.7		22.2		4.4		24.0	
15...	1102	13.0	6600	23900		23900		7.0		26.3				1.3		26.5		4.4		28.2	
15...	1103	20.0	6600	25800		25800		7.0		25.5				.3		1.4		3.2		2.9	
15...	1105	23.0	6600	25900		25900		7.0		25.5		42.0		.3		1.4		3.3		3.0	
15...	1110	2.0	20100	18400		18400		7.5		26.9				5.4		24.0		6.9		27.0	
15...	1113	7.0	20100	18400		18400		7.5		26.9				5.2		21.8		6.1		24.4	
15...	1114	13.0	20100	18400		18400		7.4		26.8				4.9		15.1		5.1		17.4	
15...	1115	18.0	20100	19600		19600		7.3		26.6		36.0		3.7		10.2		4.7		12.4	
27...	1709	1.5	6600	22100		22100		7.9		27.7				7.6		15.2		4.9		18.4	
27...	1710	3.0	6600	22200		22200		--		--				--		10.9		6.2		13.8	
27...	1711	6.0	6600	22200		22200		7.7		27.3				6.8		6.9		4.8		9.1	
27...	1713	13.0	6600	22500		22500		7.4		26.7				5.3		--		--		--	
27...	1714	19.0	6600	24000		24000		7.0		26.2				2.4		3.1		5.0		5.5	
27...	1715	22.0	6600	26300		26300		6.9		26.1		36.0		.7		1.8		3.4		3.4	
27...	1734	1.6	20100	21400		21400		8.3		28.2				11.8		60.0		8.4		63.2	
27...	1738	6.0	20100	21500		21500		8.1		27.7				9.5		24.3		7.1		27.4	
27...	1739	13.0	20100	21500		21500		7.8		27.1				7.2		19.1		7.7		21.6	
27...	1740	16.0	20100	21700		21700		7.5		26.9		42.0		5.2		17.9		6.4		20.8	
AUG																					
17...	1423	1.6	20100	21300		21300		7.6		26.5				6.8		35.5		6.7		38.3	
17...	1428	6.0	20100	21300		21300		7.6		26.5				6.6		31.2		4.1		32.8	
17...	1429	13.0	20100	21400		21400		7.5		26.5				6.3		23.0		5.9		25.5	
17...	1430	16.0	20100	21400		21400		7.6		26.5		44.0		6.7		--		--		--	
19...	0739	1.6	6600	23000		23000		7.7		25.1				6.6		15.1		6.2		17.9	
19...	0742	6.0	6600	23000		23000		7.6		25.2				6.4		16.4		6.4		19.3	
19...	0743	13.0	6600	24000		24000		7.4		25.6				5.0		17.3		5.1		19.5	
19...	0744	19.0	6600	26000		26000		6.9		25.9				1.0		18.5		5.3		20.8	
19...	0745	27.0	6600	26800		26800		6.8		26.0		60.0		.5		10.5		3.5		12.1	
SEP																					
10...	1325	4.0	6600	21800		21800		7.9		25.4				9.2		--		--		--	
21...	1430	23.0	6600	30600		30600		7.1		23.2		60.0		1.2		1.9		4.7		4.2	
21...	1431	19.0	6600	27400		27400		7.1		22.8				2.5		2.5		4.4		4.6	
21...	1432	13.0	6600	25100		25100		7.3		22.2				5.2		4.4		3.3		5.9	
21...	1433	6.0	6600	23800		23800		7.8		22.3				8.9		18.0		5.4		20.3	
21...	1436	1.6	6600	23800		23800		7.8		22.5				9.1		22.2		3.2		23.5	
21...	1500	16.0	20100	22200		22200		7.9		22.4		48.0		9.1		34.3		4.4		36.0	
21...	1501	13.0	20100	22200		22200		7.9		22.3				9.2		34.2		5.4		36.3	
21...	1502	6.0	20100	22200		22200		7.9		22.4				9.2		35.2		3.7		36.5	
21...	1506	1.6	20100	22100		22100		7.9		22.3				9.0		47.4		3.4		48.4	

01661475' - POTOMAC R AT PINEY POINT, MD

WATER QUALITY DATA. WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	(00003)	SAMPLE LCC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR, (UG/L)	(32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL 4 FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
01...	1545	3.0		4500		26700		7.5		22.9						17.6		4.0		19.3	
01...	1547	15.0		4500		27000		7.4		23.1						8.8		4.2		10.8	
01...	1548	30.0		4500		27800		7.2		23.8						6.2		5.0		8.5	
01...	1549	60.0		4500		28600		7.2		23.9						8.3		5.4		10.8	
01...	1551	75.0		4500		28500		7.3		23.9						9.9		5.2		12.2	
01...	1615	3.0		10800		26300		7.4		22.7						11.2		3.1		12.5	
01...	1618	15.0		10800		26500		7.3		22.8						10.2		3.7		11.9	
01...	1620	33.0		10800		27400		7.3		23.2						7.8		4.8		10.0	
09...	0745	3.0		10800		25800		7.7		19.2		72.0		9.1		17.5		1.9		18.2	
09...	0747	10.0		10800		25900		7.7		19.3				8.9							
09...	0748	20.0		10800		26300		7.7		19.4				8.0							
09...	0749	25.0		10800		27400		7.4		19.9				6.5							
09...	0750	32.0		10800		28100		7.3		19.9				5.8		6.4		6.3		9.4	
09...	0800	3.0		4500		24600		7.9		18.7		72.0		9.5		12.2		3.3		13.6	
09...	0801	10.0		4500		25000		7.8		18.9				9.1							
09...	0802	20.0		4500		27400		7.5		19.5				7.2							
09...	0803	30.0		4500		28100		7.4		19.9				6.3							
09...	0804	50.0		4500		28500		7.3		19.9				6.0							
09...	0805	65.0		4500		28300		7.3		19.8				6.0		5.7		4.8		7.9	
14...	1140	3.0		10800		27600		7.6		18.4		66.0		7.3		14.6		3.2		15.9	
14...	1143	20.0		10800		27600		7.6		18.4				7.3							
14...	1145	34.0		10800		27600		7.6		18.3				7.3		9.8		5.6		12.4	
14...	1230	3.0		4500		27700		7.6		18.3		72.0		7.3		17.1		3.7		18.6	
14...	1232	15.0		4500		27800		7.6		18.3				7.2							
14...	1234	30.0		4500		27900		7.6		18.4				7.1		6.2		4.5		8.3	
14...	1235	60.0		4500		28200		7.6		18.6				7.1		13.4		2.7		14.5	
22...	1030	2.0		4500		25400		8.0		17.1				9.0				18.6		16.0	
22...	1035	71.0		4500		32300		7.4		18.4		74.0		4.8		7.0		7.9		8.6	
22...	1036	58.0		4500		32400		7.3		18.4				4.6		4.9		2.9		5.4	
22...	1037	32.0		4500		31300		7.4		18.3				5.5		4.0		2.9		8.3	
22...	1038	23.0		4500		30400		7.5		18.5				5.7		6.7		3.4		12.0	
22...	1039	10.0		4500		29500		7.5		18.0				6.2		10.6		3.2		15.6	
22...	1040	6.0		4500		26900		7.8		17.5				7.8		14.6		2.6		16.8	
22...	1045	2.0		10800		22300		8.0		17.6		89.0		9.2		15.9		2.3		12.6	
22...	1048	10.0		10800		26000		8.0		17.5				8.2		11.7		2.3		7.4	
22...	1049	23.0		10800		31100		7.3		17.4				4.6		5.0		5.2		7.6	
22...	1050	30.0		10800		31200		7.3		17.3				4.8		5.1		5.3		7.6	
27...	0940	70.0		4500		29500		7.3		15.9				6.7		6.0		4.8		8.2	
27...	0941	50.0		4500		29200		7.4		15.6				6.8							

01661475 - POTOMAC R AT PINEY POINT, MD --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (000003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (000009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A METRIC METHOD CORR. (JG/L) (32209)	PHEOPHY TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
NOV											
27...	0942	30.0	4500	28400	7.5	15.0	--	7.5	--	--	--
27...	0943	15.0	4500	28400	7.6	14.9	--	7.6	--	--	--
27...	0944	9.0	4500	28400	7.6	14.9	--	7.7	--	--	--
27...	0945	3.0	4500	28400	7.6	14.9	--	7.7	--	--	--
27...	0955	32.0	10800	28800	7.5	15.0	--	7.5	17.3	18.7	18.7
27...	0956	22.0	10800	28400	7.6	14.7	--	7.8	7.4	9.7	9.7
27...	0958	12.0	10800	28300	7.7	14.7	--	7.9	--	--	--
27...	1000	3.0	10800	28100	7.7	14.7	--	8.0	16.3	18.2	18.2
05...	1140	2.0	10800	26300	8.0	12.5	--	9.5	21.8	22.4	22.4
05...	1142	10.0	10800	26500	8.0	12.5	--	9.5	19.9	20.7	20.7
05...	1144	20.0	10800	26800	7.9	12.6	--	9.1	20.9	22.2	22.2
05...	1145	33.0	10800	28500	7.7	13.3	84.0	7.9	13.9	15.6	15.6
05...	1300	2.0	4500	27800	7.9	13.1	--	8.3	18.3	20.0	20.0
05...	1302	12.0	4500	28200	7.9	13.4	--	8.5	16.6	17.9	17.9
05...	1303	25.0	4500	29100	7.6	13.4	--	7.6	11.3	12.8	12.8
05...	1304	45.0	4500	29800	7.5	13.8	--	7.3	6.4	7.7	7.7
05...	1305	70.0	4500	30200	7.5	13.8	84.0	7.2	6.2	8.2	8.2
13...	1025	2.0	10800	30000	7.8	11.2	--	9.0	15.6	17.6	17.6
13...	1027	15.0	10800	30200	7.8	11.2	--	8.8	--	--	--
13...	1029	25.0	10800	30500	7.8	11.2	--	8.7	--	--	--
13...	1030	40.0	10800	30500	7.7	11.3	60.0	8.6	10.1	11.6	11.6
13...	1100	2.0	4500	29400	7.9	11.2	--	8.9	15.4	16.8	16.8
13...	1105	15.0	4500	30500	7.8	11.2	--	8.7	--	--	--
13...	1108	25.0	4500	30700	7.8	11.3	--	8.6	--	--	--
13...	1109	40.0	4500	31600	7.8	11.7	--	8.4	--	--	--
13...	1110	62.0	4500	31700	7.7	11.8	68.0	8.4	10.6	12.1	12.1
17...	1405	2.0	10800	27400	8.2	10.1	--	10.4	18.5	19.8	19.8
17...	1407	10.0	10800	29800	8.0	11.2	--	9.3	12.4	13.7	13.7
17...	1409	23.0	10800	30700	7.9	11.6	--	8.8	8.7	9.6	9.6
17...	1410	27.0	10800	30800	7.8	11.6	60.0	8.6	9.0	10.4	10.4
17...	1420	2.0	4500	29000	8.1	10.5	--	9.6	20.3	21.0	21.0
17...	1425	73.0	4500	32600	7.8	11.9	72.0	8.1	11.8	13.8	13.8
17...	1426	60.0	4500	32600	7.8	11.9	--	7.9	11.5	13.4	13.4
17...	1427	32.0	4500	32200	7.8	11.9	--	8.0	11.0	12.8	12.8
17...	1428	23.0	4500	30700	7.9	11.3	--	8.6	9.7	11.3	11.3
17...	1429	10.0	4500	30600	7.9	11.3	--	8.8	10.2	11.4	11.4
17...	1430	6.0	4500	30400	8.0	11.1	--	9.0	14.0	15.5	15.5
28...	1110	3.0	4500	30000	7.9	8.7	96.0	10.4	25.7	26.4	26.4
28...	1111	10.0	4500	30200	7.8	8.7	--	10.2	--	--	--

01661475 POTOMAC R AT PINEY POINT, MD
 WATER QUALITY YEAR WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION, FT FM L BANK	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN))	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD CORR, (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR, (UG/L)
28...	1112	20.0	4500	30500	7.8	8.7	--	10.0	--	--	--
28...	1113	30.0	4500	30900	7.8	8.8	--	9.8	--	--	--
28...	1114	40.0	4500	31000	7.8	8.8	--	9.8	--	--	--
28...	1115	50.0	4500	31100	7.8	8.9	--	9.7	--	--	--
28...	1116	60.0	4500	31100	7.8	8.9	--	9.7	--	--	--
28...	1121	72.0	4500	31100	7.8	9.0	--	9.6	12.1	3.8	13.8
28...	1140	3.0	10800	29300	7.9	8.4	54.0	10.9	37.5	1.8	37.8
28...	1144	10.0	10800	29400	7.9	8.4	--	10.8	--	--	--
28...	1148	25.0	10800	30300	7.7	8.6	--	10.2	--	--	--
28...	1150	31.0	10800	31200	7.6	8.8	--	10.0	24.8	2.1	25.5
DEC											
09...	1340	34.0	10800	31600	7.8	7.4	108	9.2	28.3	3.8	29.8
09...	1341	20.0	10800	30400	7.8	7.3	--	9.0	--	--	--
09...	1342	10.0	10800	28100	7.8	7.3	--	9.2	--	--	--
09...	1345	2.0	10800	26100	7.9	7.6	--	9.6	7.6	2.0	9.5
09...	1405	2.0	4500	25400	7.9	7.7	--	10.5	9.0	1.9	9.8
09...	1406	15.0	4500	30600	7.8	7.3	--	10.3	--	--	--
09...	1407	25.0	4500	30900	7.8	7.2	--	10.2	--	--	--
09...	1408	45.0	4500	31900	7.7	7.2	--	9.7	--	--	--
09...	1410	65.0	4500	32000	7.8	7.2	108	9.9	39.5	6.9	42.2
15...	1125	2.0	4500	29000	8.0	6.8	--	10.8	11.3	2.5	12.4
15...	1130	72.0	4500	32500	7.8	7.8	78.0	9.0	49.7	9.2	53.4
15...	1131	60.0	4500	32400	7.8	7.8	--	9.3	20.7	6.3	23.4
15...	1132	50.0	4500	32200	7.8	7.7	--	9.5	23.9	4.7	25.8
15...	1133	40.0	4500	32000	7.9	7.7	--	9.5	20.5	4.2	22.2
15...	1134	30.0	4500	30600	7.9	7.3	--	10.1	15.5	3.7	17.1
15...	1135	20.0	4500	30000	8.0	7.1	--	10.5	14.9	1.8	15.6
15...	1136	10.0	4500	29000	8.0	6.8	--	10.8	11.4	2.9	12.7
15...	1155	20.0	10800	28600	8.0	6.6	100	10.7	12.0	2.4	13.0
15...	1156	10.0	10800	28600	8.0	6.6	--	10.7	12.1	2.9	13.3
15...	1200	2.0	10800	28600	8.0	6.6	--	10.8	12.8	2.2	13.7
JAN											
02...	1010	3.0	4500	27000	8.4	1.7	--	11.5	--	--	--
02...	1011	15.0	4500	30700	8.3	2.7	--	10.8	--	--	--
02...	1012	30.0	4500	31100	8.3	2.6	--	10.9	--	--	--
02...	1013	50.0	4500	31100	8.3	2.7	--	10.7	--	--	--
02...	1020	69.0	4500	31100	8.2	2.9	--	10.4	--	--	--
02...	1030	3.0	10800	26300	8.4	1.4	--	11.9	--	--	--
02...	1035	10.0	10800	27600	8.4	2.3	--	11.4	--	--	--
02...	1040	30.0	10800	31100	8.3	2.5	--	10.8	--	--	--
22...	1425	2.0	4500	30100	8.2	.7	--	12.8	12.7	1.6	13.3

01661475 POTOMAC R AT PINEY POINT, MD --Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLIA FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLOURO- METRIC METHOD (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JAN											
22...	1430	63.0	4500	31600	8.2	.0	72.0	12.7	14.6	2.6	15.6
22...	1432	60.0	4500	31600	8.2	.0	--	12.8	13.6	2.6	14.7
22...	1433	50.0	4500	31600	8.2	.0	--	12.8	14.5	2.3	15.4
22...	1434	40.0	4500	31600	8.2	.0	--	12.8	13.6	2.8	14.8
22...	1435	30.0	4500	31300	8.3	.0	--	13.0	12.2	1.9	13.0
22...	1436	20.0	4500	31300	8.3	.0	--	13.1	12.9	2.1	13.7
22...	1437	12.0	4500	31200	8.3	.0	--	13.0	12.9	2.1	13.7
22...	1438	7.0	4500	30600	8.2	.3	--	12.9	12.1	1.8	12.8
22...	1455	2.0	10800	29800	8.1	.5	--	13.3	14.6	1.1	14.9
22...	1457	10.0	10800	29900	8.2	.3	--	13.3	14.8	1.5	15.3
22...	1500	20.0	10800	30800	8.1	.1	78.0	13.0	18.4	4.4	20.3
27...	1300	3.0	10800	29200	8.2	.5	108	13.7	9.5	1.2	9.9
27...	1304	12.0	10800	29800	8.1	.0	--	13.3	--	--	--
27...	1308	24.0	10800	31200	8.0	.0	--	13.0	--	--	--
27...	1310	34.0	10800	31500	7.8	.0	--	12.9	16.5	2.0	17.2
27...	1340	3.0	4500	29500	8.3	.3	108	13.4	10.6	1.0	11.0
27...	1341	12.0	4500	30500	8.2	.1	--	13.3	--	--	--
27...	1342	15.0	4500	31000	8.2	.0	--	13.2	15.5	1.9	16.2
27...	1343	25.0	4500	31500	8.2	.0	--	13.0	--	--	--
27...	1344	50.0	4500	32400	8.1	--	--	12.4	--	--	--
27...	1345	61.0	4500	32500	8.0	--	--	12.4	19.9	1.7	20.4
27...	1346	69.0	4500	32600	8.0	--	--	12.4	--	--	--
27...	1350	78.0	4500	32500	7.9	.0	--	12.1	16.8	1.5	17.2
FER											
03...	0820	73.0	4500	31000	7.9	1.0	--	11.6	--	--	--
03...	0821	3.0	4500	29400	7.9	.8	--	11.8	--	--	--
05...	0940	2.0	10800	28500	8.1	.2	72.0	12.7	9.4	2.4	10.5
05...	0942	7.0	10800	28300	8.1	.1	--	12.7	8.0	3.1	9.4
05...	0943	12.0	10800	28300	8.1	.2	--	12.7	10.2	2.4	11.2
05...	0945	20.0	10800	28300	8.1	.3	--	12.6	10.2	2.6	11.3
05...	1005	70.0	4500	31300	8.0	.5	90.0	12.1	20.1	4.8	22.1
05...	1006	60.0	4500	31200	8.0	.5	--	12.2	12.6	2.4	13.6
05...	1007	50.0	4500	31000	8.0	.5	--	12.2	10.9	2.0	11.7
05...	1008	40.0	4500	30800	8.0	.5	--	12.2	11.1	1.6	11.7
05...	1009	30.0	4500	30500	8.0	.4	--	12.2	11.9	1.9	12.6
05...	1010	3.0	4500	29200	8.0	.1	--	12.7	8.9	1.8	9.6
05...	1011	20.0	4500	29400	8.0	.1	--	12.5	9.0	1.8	9.8
05...	1012	12.0	4500	29200	8.0	.1	--	12.6	9.6	1.5	10.2
13...	0800	28.0	10800	31800	7.4	.6	78.0	11.5	8.0	1.7	8.7
13...	0808	15.0	10800	31100	7.5	.5	--	11.5	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LCC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
FER	0810	3.0	10800	30400	7.6	.5	--	11.3	8.9	2.2	9.8
13...	0840	3.0	4500	31600	7.6	.5	90.0	11.5	6.8	1.9	7.6
13...	0842	15.0	4500	32400	7.6	.4	--	11.5	4.0	1.3	4.6
13...	0844	30.0	4500	32700	7.6	.3	--	11.4	5.1	1.0	5.5
13...	0846	53.0	4500	32800	7.6	.5	--	11.4	7.3	1.6	8.0
13...	0850	70.0	4500	32900	7.5	.5	--	11.4	7.2	1.4	7.8
19...	1110	31.0	10800	31400	7.6	2.2	108	10.4	10.0	1.8	10.8
19...	1115	17.0	10800	31100	7.6	2.3	--	10.4	--	--	--
19...	1120	3.0	10800	27600	7.6	4.3	--	10.8	2.4	1.0	2.9
19...	1130	70.0	4500	32400	7.6	1.6	120	10.3	5.5	1.8	6.3
19...	1134	52.0	4500	32400	7.6	1.8	--	10.3	3.0	.9	3.5
19...	1138	20.0	4500	31700	7.6	2.5	--	10.4	6.6	1.5	7.2
19...	1140	3.0	4500	29400	7.6	3.8	--	10.8	2.2	1.0	2.6
26...	1345	3.0	10800	--	--	--	--	--	10.3	3.0	11.6
26...	1355	31.0	10800	--	--	--	--	--	10.5	3.5	12.1
26...	1415	3.0	4500	--	--	--	--	--	9.7	1.8	10.4
26...	1417	20.0	4500	--	--	--	--	--	9.9	2.2	10.9
26...	1425	70.0	4500	--	--	--	--	--	11.6	2.1	12.4
MAR											
03...	1150	3.0	4500	23900	8.2	5.9	96.0	12.2	6.8	1.5	7.4
03...	1152	12.0	4500	24300	8.1	5.8	--	12.2	6.9	1.4	7.5
03...	1154	20.0	4500	27500	8.0	5.2	--	11.9	8.4	1.5	9.1
03...	1156	30.0	4500	29600	8.0	4.6	--	11.6	12.4	1.2	12.8
03...	1157	40.0	4500	31000	7.9	4.4	--	11.2	16.0	2.7	17.0
03...	1158	50.0	4500	31200	7.9	4.3	--	11.2	15.2	2.0	16.0
03...	1159	60.0	4500	31200	7.9	4.4	--	11.2	14.2	3.1	15.5
03...	1200	68.0	4500	31200	7.9	4.4	--	11.2	12.6	3.3	14.1
03...	1230	3.0	10800	22100	8.2	6.2	96.0	12.1	6.5	2.0	7.4
03...	1233	12.0	10800	22300	8.2	6.1	--	12.1	7.1	1.1	7.5
03...	1235	20.0	10800	22900	8.2	6.0	--	12.2	7.3	2.0	8.1
09...	1340	3.0	10800	25900	7.9	5.5	66.0	11.7	12.2	1.9	13.0
09...	1350	33.0	10800	26700	7.8	5.1	--	11.4	12.5	2.4	13.5
09...	1400	3.0	4500	26500	8.0	5.4	63.0	11.7	13.4	2.0	14.2
09...	1402	20.0	4500	26600	7.9	5.3	--	11.7	11.9	2.1	12.7
09...	1405	35.0	4500	26800	7.9	5.0	--	11.5	15.5	3.2	16.8
09...	1407	50.0	4500	27100	7.9	5.0	--	11.4	13.9	2.4	14.8
09...	1410	70.0	4500	27700	7.8	4.9	--	11.1	15.8	5.7	18.3
18...	1340	2.0	10800	26700	7.9	5.5	96.0	8.7	6.8	1.5	7.4
18...	1342	7.0	10800	26700	7.9	5.4	--	8.7	9.2	2.1	10.1
18...	1343	12.0	10800	26800	7.9	5.4	--	8.7	9.0	1.8	9.8

01661475 - POTOMAC R AT PINEY POINT, MD --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	PHOSPHO- RUS FLUORO- METRIC METHOD (UG/L)
(00003)	(00009)	(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32217)	(32213)
MAR 18...	1344	20.0	10800	26800	7.9	5.4	--	8.8	9.4	10.5	2.5
MAR 18...	1345	32.0	10800	26800	7.9	5.4	--	8.8	10.0	11.1	2.4
MAR 18...	1410	2.0	4500	27000	7.9	5.3	--	8.7	6.5	7.0	1.3
MAR 18...	1415	81.0	4500	27800	7.9	5.4	--	8.7	10.4	11.6	2.8
MAR 18...	1416	70.0	4500	27300	7.9	5.3	--	8.7	9.4	10.6	2.7
MAR 18...	1417	60.0	4500	27300	7.9	5.4	--	8.7	9.1	10.4	2.9
MAR 18...	1418	50.0	4500	27200	7.9	5.3	--	8.7	8.2	9.3	2.5
MAR 18...	1419	40.0	4500	27100	7.9	5.3	--	8.7	6.6	7.6	2.2
MAR 18...	1420	30.0	4500	27100	7.9	5.2	--	8.8	6.4	7.3	2.0
MAR 18...	1421	20.0	4500	27000	7.9	5.2	--	8.9	6.7	7.4	1.7
MAR 18...	1422	10.0	4500	27000	7.9	5.3	--	8.7	6.6	7.4	1.8
MAR 26...	1120	3.0	10800	25400	8.2	6.4	78.0	11.5	.9	1.6	1.4
MAR 26...	1122	6.0	10800	25300	8.2	6.2	--	11.5	--	--	--
MAR 26...	1124	9.0	10800	25300	8.1	5.8	--	11.3	--	--	--
MAR 26...	1126	19.0	10800	26500	8.0	5.7	--	10.6	--	--	--
MAR 26...	1130	27.0	10800	26600	8.0	5.7	--	10.5	9.2	9.7	1.4
MAR 26...	1150	3.0	4500	26300	8.1	6.5	102	11.0	1.6	2.2	1.3
MAR 26...	1152	15.0	4500	26900	8.1	5.7	--	10.8	4.2	5.0	1.6
MAR 26...	1154	30.0	4500	27100	8.1	5.4	--	10.5	4.3	4.9	1.5
MAR 26...	1156	50.0	4500	27300	8.0	5.3	--	10.4	3.7	4.4	1.7
MAR 26...	1158	60.0	4500	27200	8.0	5.2	--	10.4	4.2	5.0	1.8
MAR 26...	1200	70.0	4500	27400	8.0	5.1	--	10.2	3.4	3.9	1.3
APR 02...	1510	29.0	10800	28700	7.7	6.8	84.0	9.0	12.6	13.6	2.5
APR 02...	1514	20.0	10800	25500	7.9	9.8	--	10.7	--	--	--
APR 02...	1516	16.0	10800	25600	7.9	9.8	--	10.4	--	--	--
APR 02...	1520	3.0	10800	25500	7.9	10.4	--	10.7	13.0	14.2	2.7
APR 02...	1610	68.0	4500	30100	7.7	6.2	90.0	8.7	8.9	9.7	2.0
APR 02...	1615	53.0	4500	30000	7.7	6.3	--	8.8	7.6	8.4	2.0
APR 02...	1616	35.0	4500	29500	7.7	6.5	--	9.1	7.9	8.6	1.7
APR 02...	1618	15.0	4500	27400	7.7	8.2	--	10.0	8.8	9.5	1.7
APR 02...	1620	3.0	4500	26200	7.8	9.9	--	10.3	10.2	11.1	2.1
APR 07...	0950	68.0	4500	30200	7.5	7.4	60.0	8.5	17.3	18.7	3.5
APR 07...	0954	55.0	4500	29800	7.8	7.8	--	8.7	20.0	20.7	2.1
APR 07...	0956	35.0	4500	29000	7.9	8.4	--	8.9	21.8	22.5	2.2
APR 07...	0958	15.0	4500	27500	7.9	9.3	--	9.0	31.4	33.1	4.4
APR 07...	1000	3.0	4500	26600	8.1	9.6	--	9.4	34.6	36.5	5.0
APR 07...	1030	30.0	10800	27000	7.8	9.5	54.0	8.9	33.1	34.5	3.8
APR 07...	1038	16.0	10800	26100	8.0	9.9	--	9.0	--	--	--
APR 07...	1040	3.0	10800	25500	8.1	10.5	--	9.8	34.0	36.3	5.6

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT) (00003)	SAMPLE LOC- ATION, CRDSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECKI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLURO- METRIC METHOD (UG/L) (32209)	PHEOPHY -TIN A FLURO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD (UG/L) (32217)
APR 16...	0848	10.0	4500	26400	8.2	11.7	--	11.4	75.7	8.3	78.6
16...	0849	20.0	4500	26500	8.2	11.5	--	11.3	78.2	4.6	79.3
16...	0850	30.0	4500	27200	8.1	11.3	--	10.5	59.0	3.8	60.0
16...	0851	40.0	4500	28300	7.8	10.3	--	8.7	43.3	6.2	45.7
16...	0852	50.0	4500	28800	7.7	9.7	--	8.3	33.4	6.6	36.1
16...	0853	60.0	4500	28800	7.6	9.6	--	8.2	32.3	7.0	35.2
16...	0854	70.0	4500	28800	7.7	9.6	--	8.2	33.9	6.3	36.5
16...	0855	78.0	4500	28800	7.7	9.6	--	8.4	--	--	--
16...	0900	2.0	4500	24800	8.4	12.3	48.0	13.4	105	4.2	106
16...	0925	29.0	10800	27500	8.0	10.8	54.0	9.8	57.7	4.6	59.1
16...	0927	20.0	10800	26900	8.2	11.5	--	10.9	72.7	5.0	74.1
16...	0928	10.0	10800	25300	8.3	11.9	--	12.2	100	4.9	101
16...	0930	2.0	10800	24800	8.4	12.7	--	13.4	107	6.3	109
23...	1000	3.0	4500	22300	8.7	14.3	36.0	13.9	112	21.9	121
23...	1001	10.0	4500	23000	8.6	13.9	--	13.1	116	13.8	121
23...	1002	20.0	4500	27500	8.0	12.3	--	8.5	75.5	8.7	78.6
23...	1003	48.0	4500	28700	7.7	11.6	--	6.3	47.2	7.6	50.2
23...	1004	68.0	4500	29300	7.6	11.4	--	6.3	34.1	6.9	37.0
23...	1100	3.0	10800	20900	8.6	14.3	36.0	13.8	98.4	11.6	103
23...	1104	10.0	10800	23200	8.6	13.6	--	13.1	102	11.4	106
23...	1110	18.0	10800	26600	8.1	12.7	--	10.1	106	4.2	106
30...	1100	2.0	4500	20300	8.8	16.6	36.0	13.2	117	17.2	124
30...	1104	10.0	4500	25900	8.5	14.4	--	10.5	93.3	8.8	96.2
30...	1105	20.0	4500	28000	8.2	12.8	--	11.0	84.4	15.1	90.6
30...	1106	30.0	4500	28700	8.1	12.5	--	7.7	78.9	9.7	82.5
30...	1108	50.0	4500	30100	8.1	12.6	--	7.5	73.0	8.4	76.0
30...	1110	68.0	4500	30200	8.1	12.5	--	7.3	82.3	7.2	81.0
30...	1145	2.0	10800	20000	8.7	16.4	36.0	13.4	102	10.6	105
30...	1150	10.0	10800	20100	8.7	16.4	--	13.2	--	--	--
30...	1153	20.0	10800	28000	8.2	12.6	--	8.2	--	--	--
30...	1155	28.0	10800	29100	8.0	12.5	--	7.8	87.4	6.2	89.1
MAY 04...	1215	67.0	4500	30100	8.0	12.9	--	10.0	75.9	10.2	79.7
04...	1216	50.0	4500	29600	8.0	13.2	--	9.6	--	--	--
04...	1217	35.0	4500	28400	8.2	13.7	--	10.6	80.9	10.6	84.9
04...	1218	15.0	4500	26300	8.4	14.4	--	12.0	--	--	--
04...	1220	2.0	4500	25600	8.6	15.3	42.0	13.1	105	4.4	107
04...	1235	3.0	10800	23400	8.6	15.3	--	14.4	105	3.1	105
04...	1237	15.0	10800	24600	8.4	14.2	--	12.5	115	10.7	119
04...	1240	28.0	10800	28800	8.1	13.4	--	10.6	105	5.1	106

APPENDIX A-2

01661475: - POTOMAC R AT PINEY POINT, MD ---Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLLA FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)
MAY											
11...	1500	2.0	10800	26300	8.6	15.9	36.0	--	79.7	8.1	82.5
11...	1508	20.0	10800	26700	8.5	15.6	--	--	87.6	5.1	88.8
11...	1510	38.0	10800	26900	8.3	14.8	--	8.2	92.7	11.0	96.7
11...	1540	2.0	4500	25900	--	16.3	30.0	--	93.6	.9	91.8
11...	1544	20.0	4500	26300	--	15.5	--	--	93.0	10.0	94.0
11...	1546	40.0	4500	26800	--	14.8	--	--	90.0	5.3	91.2
11...	1548	60.0	4500	27500	7.2	14.1	--	--	97.0	8.1	99.5
20...	0843	7.0	4500	--	--	--	--	--	55.1	6.0	57.2
20...	0844	12.0	4500	25400	8.5	16.5	--	9.2	56.7	2.8	57.2
20...	0845	20.0	4500	26200	8.5	16.6	--	8.9	58.1	4.2	59.3
20...	0846	30.0	4500	26500	8.4	16.6	--	8.0	59.4	3.9	60.4
20...	0847	40.0	4500	27400	8.1	15.9	--	5.2	67.4	5.6	69.2
20...	0848	50.0	4500	28100	7.9	15.3	--	3.2	54.1	13.7	60.0
20...	0849	60.0	4500	28200	7.9	15.2	--	2.7	61.3	15.6	68.0
20...	0850	69.0	4500	28400	7.8	15.2	--	2.7	63.2	19.2	71.6
20...	0855	2.0	4500	24800	8.5	16.4	49.0	9.8	61.0	-3.7	58.4
20...	0915	2.0	10800	23700	8.5	16.7	57.0	9.7	59.6	-1.5	58.0
20...	0917	7.0	10800	23800	8.5	16.6	--	9.5	54.0	8.0	57.1
20...	0918	12.0	10800	23800	8.5	16.6	--	9.3	56.2	9.3	60.0
20...	0919	20.0	10800	24000	8.5	16.6	--	8.6	57.4	8.5	60.7
20...	0920	31.0	10800	26800	8.1	16.2	--	4.9	71.0	9.3	74.5
28...	1830	3.0	10800	25200	8.6	19.1	54.0	9.1	33.6	2.2	34.2
28...	1834	12.0	10800	25400	8.6	19.0	--	9.1	35.8	1.1	35.8
28...	1838	25.0	10800	25400	8.5	18.7	--	--	29.6	3.6	30.9
28...	1840	33.0	10800	26500	8.2	17.5	--	--	45.0	7.4	47.9
28...	1925	3.0	4500	24300	8.5	19.8	--	8.5	31.0	1.5	31.3
28...	1926	15.0	4500	24400	8.5	19.7	--	8.3	30.0	4.6	31.8
28...	1927	30.0	4500	24500	8.5	19.6	--	8.4	30.7	2.4	31.4
28...	1928	40.0	4500	26000	8.1	17.4	--	5.1	31.1	4.7	32.9
28...	1929	50.0	4500	26700	8.0	16.9	--	4.6	34.2	7.9	37.6
28...	1930	69.0	4500	31300	7.3	16.1	--	.4	108	25.8	119
28...	1931	60.0	4500	27900	7.6	16.3	--	1.6	47.8	11.1	52.5
JUN											
01...	1125	2.0	10800	20900	8.5	22.0	72.0	8.4	18.6	2.8	19.6
01...	1127	10.0	10800	21100	8.4	21.8	--	8.0	19.6	2.9	20.8
01...	1128	20.0	10800	26900	7.8	18.3	--	2.9	26.1	3.5	27.4
01...	1130	32.0	10800	30300	7.5	16.9	--	1.5	31.0	10.6	35.7
01...	1150	2.0	4500	23200	8.4	20.8	72.0	7.4	24.2	2.5	25.0
01...	1152	10.0	4500	23800	8.4	20.4	--	6.9	24.5	2.8	25.5
01...	1153	20.0	4500	25700	8.1	19.1	--	5.2	29.1	4.8	31.0

01561475 - POTOMAC R AT PINEY POINT, MD ---Cont.
 WATER QUALITY DATA: WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT-	PH	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECHI DISK (1N)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUN 01....	1154	30.0	4500	29800	7.5	17.0	---	1.8	29.5	8.0	33.0
01....	1155	40.0	4500	31600	7.3	16.7	---	.8	28.8	10.4	33.4
01....	1156	50.0	4500	31700	7.3	16.7	---	.5	27.5	9.6	31.8
01....	1157	60.0	4500	31900	7.3	16.7	---	.8	30.5	10.7	35.2
01....	1158	70.0	4500	32000	7.3	16.7	---	.8	47.0	28.1	60.0
01....	1200	78.0	4500	32000	7.3	16.6	---	.8	58.9	31.5	73.3
10....	1200	2.0	10800	18900	8.2	24.9	45.0	8.1	24.7	4.5	26.5
10....	1201	6.0	10800	19100	8.1	24.6	---	6.9	15.5	4.8	17.6
10....	1202	10.0	10800	19800	8.0	24.1	---	6.2	9.6	3.7	11.3
10....	1203	15.0	10800	25500	7.8	22.1	---	3.4	11.0	2.8	12.2
10....	1204	18.0	10800	26600	7.7	21.3	---	2.5	20.6	3.5	21.9
10....	1205	22.0	10800	29100	7.2	18.8	---	.0	6.1	2.5	7.3
10....	1240	2.0	4500	19200	8.2	25.1	---	7.9	15.8	3.1	17.1
10....	1245	68.0	4500	32500	7.1	18.3	52.0	.0	12.4	4.2	14.2
10....	1246	60.0	4500	30900	7.1	18.2	---	.0	9.4	2.6	10.5
10....	1247	50.0	4500	30300	7.1	18.1	---	.0	.0	8.3	4.0
10....	1248	40.0	4500	29900	7.2	18.2	---	.0	5.4	2.2	6.4
10....	1249	30.0	4500	29700	7.2	18.4	---	.0	5.3	2.0	6.2
10....	1250	20.0	4500	28000	7.2	19.4	---	.0	7.6	5.9	10.4
10....	1251	18.0	4500	27000	7.5	20.4	---	.9	12.1	4.4	14.1
10....	1252	15.0	4500	25400	7.9	21.7	---	4.3	14.5	3.6	16.1
10....	1253	10.0	4500	22600	8.0	23.3	---	5.8	13.2	2.9	14.4
10....	1254	6.0	4500	21500	8.1	24.0	---	6.6	22.1	3.0	23.3
15....	1615	2.0	10800	20300	8.4	27.0	48.0	7.8	12.4	2.8	13.5
15....	1616	6.0	10800	20900	8.4	25.8	---	7.9	12.4	3.9	14.1
15....	1617	10.0	10800	20900	8.4	25.4	---	7.9	11.1	4.3	13.0
15....	1618	15.0	10800	22200	8.2	25.0	---	5.3	8.3	3.8	10.0
15....	1619	20.0	10800	24100	7.5	23.7	---	1.3	6.4	3.3	7.9
15....	1620	31.0	10800	25200	7.3	23.1	---	.0	1.0	2.0	2.0
15....	1645	2.0	4500	20400	8.5	27.4	---	8.1	11.4	3.8	13.1
15....	1650	70.0	4500	33000	7.3	19.9	54.0	.0	---	---	---
15....	1651	62.0	4500	32600	7.4	19.9	---	.0	2.6	1.8	3.4
15....	1652	50.0	4500	31900	7.3	19.7	---	.0	2.6	1.5	3.3
15....	1653	40.0	4500	31400	7.3	19.6	---	.0	2.8	1.7	3.5
15....	1654	30.0	4500	30100	7.3	20.1	---	.0	2.9	1.9	3.8
15....	1655	25.0	4500	27500	7.4	21.2	---	.0	1.7	2.1	2.7
15....	1656	20.0	4500	24000	7.8	23.4	---	2.7	4.0	2.7	5.3
15....	1657	15.0	4500	22300	8.2	24.7	---	6.1	8.9	3.0	10.2
15....	1658	7.0	4500	21100	8.4	25.9	---	8.1	10.8	4.1	12.7

01661475 POTOMAC R AT PINEY POINT, MD --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLLI A METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)
JUN 25...	1320	64.0	4500	31800	7.4	20.4	---	.0	1.1	2.1	2.1
25...	1322	40.0	4500	31600	7.4	20.6	---	.0	.9	1.5	1.6
25...	1323	32.0	4500	30600	7.4	21.4	---	.0	---	---	---
25...	1324	28.0	4500	27100	7.4	24.1	---	.1	---	---	---
25...	1325	24.0	4500	22400	8.1	25.5	---	4.8	4.1	1.9	4.9
25...	1326	18.0	4500	21600	8.3	26.5	---	6.3	10.8	2.4	11.8
25...	1327	12.0	4500	21700	8.3	27.0	---	7.4	12.1	2.2	13.0
25...	1328	6.0	4500	21100	8.4	27.3	---	7.2	20.2	4.6	22.2
25...	1330	2.0	4500	21200	8.3	28.4	---	7.2	16.7	2.5	17.7
25...	1416	23.0	10800	24200	7.8	25.8	48.0	2.6	3.3	2.5	4.5
25...	1417	18.0	10800	22100	8.2	26.2	---	6.0	8.8	2.2	9.8
25...	1418	12.0	10800	21600	8.3	26.4	---	7.6	17.9	3.9	19.5
25...	1419	6.0	10800	21500	8.4	27.7	---	7.6	30.6	3.3	31.7
25...	1425	2.0	10800	20700	8.5	28.1	---	8.1	36.9	4.3	38.4
JUL 01...	1210	2.0	10800	23200	8.0	25.2	36.0	6.3	15.9	4.7	17.9
01...	1212	10.0	10300	24200	7.9	25.0	---	6.0	10.1	4.0	11.9
01...	1214	20.0	10800	25900	7.7	24.9	---	5.7	4.8	3.2	6.3
01...	1215	30.0	10800	27200	7.4	24.0	---	2.9	2.9	4.3	5.0
01...	1245	4.0	4500	23100	8.1	25.2	30.0	7.1	13.2	3.1	14.5
01...	1246	1.0	4500	23600	8.0	25.1	---	6.6	11.3	4.2	13.2
01...	1247	2.0	4500	25600	7.8	24.9	---	6.0	6.0	2.8	7.3
01...	1248	3.0	4500	25800	7.8	24.9	---	5.7	4.7	3.5	6.4
01...	1249	4.0	4500	26100	7.7	24.7	---	5.2	4.9	4.2	6.9
01...	1250	5.0	4500	31200	7.2	21.4	---	.0	5.2	11.2	10.5
01...	1251	6.0	4500	29000	7.2	23.0	---	.4	1.6	3.1	3.1
07...	1230	22.0	10800	27300	6.9	23.6	40.0	.0	.3	3.1	1.8
07...	1232	21.0	10800	24700	6.9	24.8	---	1.6	4.3	10.5	9.3
07...	1234	14.0	10800	22400	8.0	25.3	---	6.5	14.1	6.7	17.1
07...	1236	7.0	10800	22200	9.1	25.4	---	7.4	16.9	8.7	20.9
07...	1240	2.0	10800	21700	9.6	26.3	---	10.7	77.6	9.8	81.2
07...	1321	77.0	4500	28800	.0	23.3	---	.0	1.6	8.4	5.6
07...	1322	60.0	4500	28800	.0	23.4	---	.0	1.2	5.6	4.0
07...	1323	50.0	4500	28800	.0	23.6	---	.0	.6	3.5	2.2
07...	1324	40.0	4500	28100	.0	24.3	---	.0	.6	2.8	2.0
07...	1325	30.0	4500	28000	.0	24.9	---	1.3	.7	5.8	3.5
07...	1326	21.0	4500	26700	.0	25.0	---	1.7	.5	4.1	2.5
07...	1327	14.0	4500	24800	.0	25.4	---	2.4	3.7	4.0	5.6
07...	1328	7.0	4500	24000	.0	26.2	---	4.8	20.6	5.4	23.0
07...	1330	2.0	4500	23300	.0	26.4	---	8.3	10.4	9.3	10.7

01661475 - POTOMAC R AT PINEY POINT, MD

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUL 15...	0900	3.0	4500	22700	7.7	26.5	60.0	5.0	15.9	5.5	18.4
JUL 15...	0901	10.0	4500	24600	7.4	25.7	--	3.3	12.7	4.5	14.7
JUL 15...	0902	20.0	4500	26600	7.1	25.5	--	1.7	4.8	2.1	5.8
JUL 15...	0903	30.0	4500	28200	7.0	24.8	--	.5	1.3	2.0	2.3
JUL 15...	0904	40.0	4500	32100	7.1	25.2	--	.7	1.1	1.8	1.9
JUL 15...	0905	71.0	4500	35600	7.1	24.8	--	.0	1.4	2.0	2.4
JUL 15...	0906	50.0	4500	34700	7.1	25.0	--	.4	1.1	1.5	1.8
JUL 15...	0925	2.0	10800	22500	7.7	26.6	--	4.8	20.0	5.3	22.2
JUL 15...	0926	7.0	10800	22500	7.7	26.6	--	4.7	18.9	5.4	21.2
JUL 15...	0927	14.0	10800	22600	7.7	26.5	--	4.6	16.4	5.4	18.8
JUL 15...	0928	21.0	10800	23400	7.5	26.3	--	4.3	11.9	4.5	13.9
JUL 15...	0929	26.0	10800	26200	7.1	25.5	--	1.6	1.7	3.7	3.4
JUL 15...	0930	32.0	10800	29500	7.0	24.7	48.0	.4	.9	1.8	1.6
JUL 24...	1240	67.0	4500	33900	7.4	25.1	54.0	.0	1.3	4.5	3.4
JUL 24...	1242	30.0	4500	31000	7.4	25.4	--	.0	3.7	3.9	5.5
JUL 24...	1244	20.0	4500	25400	8.0	26.3	--	3.6	5.1	3.4	6.7
JUL 24...	1246	10.0	4500	24500	8.3	26.2	--	5.0	9.7	3.9	11.4
JUL 24...	1250	2.0	4500	24100	8.5	26.4	--	6.0	17.6	4.8	19.7
JUL 24...	1320	26.0	10800	27600	7.4	26.1	62.0	.5	3.0	8.8	7.2
JUL 24...	1322	20.0	10800	26100	7.7	26.5	--	2.6	4.4	3.4	5.9
JUL 24...	1324	10.0	10800	23600	8.4	26.5	--	6.8	29.1	3.3	30.2
JUL 24...	1330	2.0	10800	23600	8.5	26.5	--	7.1	31.6	4.1	33.1
JUL 27...	1515	1.6	10800	24300	8.0	27.8	48.0	8.0	28.6	3.8	30.0
JUL 27...	1517	6.0	10800	24400	7.9	27.3	--	7.0	17.9	3.9	19.6
JUL 27...	1518	13.0	10800	24900	7.5	26.8	--	4.4	6.5	3.2	8.0
JUL 27...	1519	19.0	10800	25400	7.2	26.7	--	3.2	2.6	2.5	3.8
JUL 27...	1520	29.0	10800	27700	7.0	26.5	--	1.1	1.8	3.0	3.2
JUL 27...	1535	77.0	4500	33200	6.9	25.7	48.0	.0	.9	2.0	1.9
JUL 27...	1537	57.0	4500	33100	6.9	25.7	--	.0	.9	1.7	1.7
JUL 27...	1538	38.0	4500	31900	6.9	25.8	--	.0	.9	1.7	1.7
JUL 27...	1539	29.0	4500	30000	6.9	26.2	--	.4	1.1	1.9	2.0
JUL 27...	1540	19.0	4500	26600	7.3	26.5	--	3.1	3.4	2.0	4.4
JUL 27...	1541	13.0	4500	25000	7.6	27.1	--	5.3	12.6	2.8	13.8
JUL 27...	1542	6.0	4500	24100	8.0	27.7	--	7.7	18.6	4.0	20.2
JUL 27...	1543	1.6	4500	24000	8.0	28.0	--	7.8	16.6	4.9	18.8
AUG 07...	1345	2.0	4500	25200	8.3	27.3	42.0	8.3	54.3	4.8	55.9
AUG 07...	1348	10.0	4500	26200	7.8	26.5	--	4.3	14.4	4.2	16.2
AUG 07...	1350	20.0	4500	27400	7.3	26.5	--	1.8	7.6	2.6	8.8
AUG 07...	1352	35.0	4500	30000	7.1	26.0	--	.0	.8	1.5	1.5

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHDS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLURO- METRIC CORR. (UG/L)	PHEOPHY -TIN A FLURO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG 07	1354	50.0	4500	30200	7.1	26.0	--	.0	.8	1.3	1.4
07	1400	71.0	4500	30300	7.1	26.0	--	.0	.8	1.8	1.7
07	1420	27.0	10800	28600	7.2	26.7	--	.4	1.9	1.9	2.3
07	1424	20.0	10800	26900	7.3	26.9	--	1.5	2.4	2.9	3.8
07	1426	10.0	10800	25200	8.1	26.9	--	6.5	9.9	4.0	11.7
07	1430	2.0	10800	24800	8.4	27.7	--	8.8	34.0	7.2	37.0
14	1300	75.0	4500	30700	7.2	26.5	54.0	.0	1.5	4.0	3.4
14	1304	30.0	4500	29700	7.2	26.6	--	.0	.9	2.2	2.0
14	1306	20.0	4500	29000	7.3	27.0	--	1.2	2.1	3.7	3.9
14	1307	10.0	4500	25500	7.8	27.1	--	4.1	6.2	3.0	7.6
14	1308	5.0	4500	25000	8.1	27.3	--	5.5	15.0	4.7	17.0
14	1310	2.0	4500	23500	8.3	27.9	--	7.2	10.2	2.8	11.4
14	1355	2.0	10800	23000	8.4	28.0	--	7.7	9.7	2.3	10.7
14	1356	5.0	10800	23100	8.4	27.4	--	8.0	16.2	5.0	18.4
14	1357	12.0	10800	28900	7.8	27.1	--	3.5	11.2	4.4	13.2
14	1358	20.0	10800	29000	7.2	26.5	--	.0	.6	2.2	1.7
14	1400	28.0	10800	29300	7.2	26.7	54.0	.0	.2	3.9	2.1
17	1120	1.6	10800	25200	7.9	26.5	48.0	5.9	20.9	3.3	22.2
17	1122	6.0	10800	25400	7.8	26.4	--	5.6	21.1	4.1	22.8
17	1123	13.0	10800	26000	7.7	26.4	--	4.5	15.9	3.3	17.3
17	1124	19.0	10800	26200	7.6	26.4	--	4.3	14.7	3.0	15.9
17	1125	26.0	10800	26700	7.5	26.3	--	3.7	9.0	3.0	10.3
17	1135	70.0	4500	31700	7.1	26.4	--	.0	6.5	10.4	11.4
17	1140	1.6	4500	27300	7.4	26.3	--	3.4	17.0	3.5	18.4
17	1142	57.0	4500	31400	7.1	26.4	--	.3	1.8	2.2	2.9
17	1143	38.0	4500	31000	7.1	26.4	--	.3	1.2	1.8	2.1
17	1144	29.0	4500	30700	7.1	26.3	--	.2	1.7	3.4	3.4
17	1145	19.0	4500	29000	7.1	26.3	--	.7	2.5	2.6	3.7
17	1146	13.0	4500	27700	7.3	26.2	--	2.5	9.6	2.2	10.5
17	1147	6.0	4500	27300	7.4	26.2	--	3.2	15.3	4.2	17.1
28	1150	27.0	10800	28000	7.3	24.0	64.0	4.4	3.6	3.3	5.2
28	1154	20.0	10800	27700	7.4	23.9	--	4.4	3.7	3.3	5.3
28	1156	13.0	10800	27700	7.4	23.9	--	4.4	6.9	3.5	8.5
28	1158	6.0	10800	27600	7.5	24.1	--	5.1	24.7	3.7	26.1
28	1200	1.0	10800	27700	7.5	24.6	--	5.3	7.9	2.9	9.2
28	1225	73.0	4500	31000	7.2	23.7	66.0	2.4	16.0	31.4	31.0
28	1226	66.0	4500	28700	7.2	23.8	--	3.4	7.8	4.7	10.0
28	1227	30.0	4500	28100	7.3	24.1	--	4.4	4.6	3.6	6.3
28	1228	13.0	4500	28000	7.6	24.2	--	5.8	8.3	3.4	9.9

APPENDIX A-2

01661475 - POTOMAC R AT PINEY POINT, MD --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHDS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCI DISK IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)
AUG											
28...	1229	6.00	4500	28000	7.8	24.5	---	7.0	15.7	4.0	17.4
28...	1230	1.00	4500	28000	7.9	25.1	---	7.1	15.4	3.2	16.8
SEP											
02...	1117	75.0	4500	---	---	---	72.0	---	2.5	3.4	4.2
02...	1118	58.0	4500	30700	7.4	24.0	---	1.3	2.1	4.2	4.1
02...	1119	35.0	4500	29500	7.5	24.3	---	2.4	2.5	3.5	4.2
02...	1120	25.0	4500	27800	7.9	24.8	---	5.9	4.5	3.2	6.0
02...	1121	13.0	4500	27800	7.9	25.0	---	6.0	6.5	3.3	8.0
02...	1122	6.0	4500	27700	8.0	25.0	---	6.2	6.6	3.2	8.0
02...	1125	2.0	4500	27700	8.0	25.1	---	6.2	6.9	2.8	8.2
02...	1210	34.0	10800	28500	7.5	24.8	---	2.5	2.5	4.0	4.4
02...	1212	27.0	10800	28200	7.7	24.8	---	3.6	2.5	3.0	3.9
02...	1214	13.0	10800	27700	8.1	25.1	---	6.1	4.7	2.8	6.0
02...	1216	6.0	10800	27600	8.1	25.2	---	6.3	7.8	2.6	9.0
02...	1220	2.0	10800	25200	8.1	27.7	---	6.5	5.0	2.5	6.1
10...	1513	51.0	4500	34200	6.9	23.8	---	.4	1.0	2.1	2.0
10...	1514	35.0	4500	30500	7.0	24.1	---	1.9	1.6	2.1	2.6
10...	1515	22.0	4500	28100	7.3	24.2	---	5.2	3.4	3.0	4.8
10...	1516	13.0	4500	27700	7.4	24.1	---	5.9	5.8	3.0	7.2
10...	1517	6.0	4500	27500	7.4	24.2	---	6.2	7.3	3.4	8.9
10...	1518	5.0	4500	27500	7.5	24.3	---	6.3	9.4	2.8	10.6
10...	1520	1.6	4500	27100	7.6	24.7	---	6.9	9.7	2.8	10.9
10...	1525	74.0	4500	35600	7.0	23.7	78.0	.0	1.0	3.7	2.8
10...	1530	26.0	10800	30700	6.9	24.0	84.0	1.3	1.2	2.8	2.6
10...	1531	19.0	10800	28500	7.1	24.1	---	3.5	2.9	2.6	4.2
10...	1532	13.0	10800	26700	7.5	24.0	---	6.2	8.9	1.3	9.4
10...	1533	6.0	10800	25700	7.6	24.2	---	7.1	7.5	3.0	8.9
10...	1535	1.6	10800	25700	7.6	24.5	---	7.4	9.1	2.5	10.2
17...	1110	1.0	4500	25300	7.7	23.5	60.0	6.4	10.5	3.0	11.8
17...	1116	6.0	4500	25400	7.7	23.5	---	6.2	12.2	3.2	13.5
17...	1118	11.0	4500	27100	7.5	23.9	---	5.2	9.5	3.2	10.9
17...	1120	20.0	4500	29400	7.4	24.0	---	4.3	6.7	2.4	7.8
17...	1122	30.0	4500	33500	7.0	23.6	---	.5	1.4	1.7	2.2
17...	1124	40.0	4500	33800	7.0	23.6	---	.5	1.0	1.5	1.7
17...	1126	50.0	4500	34200	7.0	23.6	---	.5	1.0	1.5	1.7
17...	1128	61.0	4500	34300	7.0	23.5	---	.5	1.4	2.0	2.4
17...	1130	72.0	4500	34200	7.0	23.6	---	.0	2.0	3.1	3.4
17...	1200	1.0	10800	24300	7.9	23.7	54.0	7.2	17.3	3.7	18.9
17...	1210	6.0	10800	24500	7.5	23.8	---	7.2	37.2	3.7	38.5
17...	1212	11.0	10800	24800	7.8	23.8	---	6.8	21.0	-5.6	17.9

01561475 - POTOMAC R AT PINEY POINT, MD ---Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLURO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
SEP 17...	1214	20.0	10800	29100	7.3	23.8	--	3.6	5.8	3.0	7.2
17...	1216	30.0	10800	32700	7.0	23.6	--	.5	--	--	--
17...	1220	37.0	10800	32700	7.0	23.5	--	.4	1.4	2.2	2.5
21...	1124	6.0	4500	27200	7.8	22.0	--	7.5	28.6	4.5	30.4
21...	1125	13.0	4500	27700	7.7	21.8	--	6.9	19.0	3.6	20.4
21...	1126	19.0	4500	28200	7.6	22.1	--	6.1	9.5	3.1	10.9
21...	1127	32.0	4500	29800	7.5	22.9	--	5.0	4.6	3.9	6.4
21...	1128	45.0	4500	31600	7.2	23.4	--	2.4	3.1	2.8	4.4
21...	1130	80.0	4500	33500	7.1	23.7	--	.4	3.0	2.7	4.3
21...	1135	1.6	4500	26400	7.9	22.1	66.0	8.2	12.8	3.2	14.2
21...	1220	1.6	10800	26100	7.9	22.3	66.0	8.4	13.8	3.8	15.5
21...	1222	6.0	10800	26300	7.8	22.1	--	8.2	18.6	4.7	20.6
21...	1223	13.0	10800	26900	7.7	22.1	--	7.0	12.7	4.1	14.5
21...	1224	19.0	10800	27200	7.6	22.3	--	6.3	7.3	3.8	9.0
21...	1225	32.0	10800	30900	7.3	23.2	--	2.6	3.9	4.0	5.8

380212076195000 - POTOMAC RIVER AT POINT LOOKOJIT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LCC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLIA FLUORO- METRIC CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLOURO- METRIC METHOD UNCORR. (UG/L)
05...	1101	10.0	4500	31000	8.0	.2	---	12.5	5.8	1.1	6.2
05...	1102	20.0	4500	31000	8.0	.1	---	12.4	6.3	1.4	6.9
05...	1103	30.0	4500	31000	8.0	.1	---	12.4	5.7	2.1	6.6
05...	1104	40.0	4500	31000	8.0	.1	---	12.4	7.6	1.3	8.1
05...	1105	60.0	4500	31000	8.0	.2	132	12.4	8.2	1.8	8.9
05...	1106	50.0	4500	31000	8.0	.2	---	12.4	6.8	2.5	7.9
05...	1135	20.0	24300	29700	8.1	.1	---	13.1	13.3	6.2	16.1
05...	1137	12.0	24300	29700	8.1	.1	---	12.7	11.2	4.7	13.3
05...	1140	3.0	24300	29700	8.1	.1	---	12.7	9.0	3.4	10.5
MAR											
03...	1000	3.0	24300	23500	8.1	6.2	---	11.9	7.6	2.4	8.6
03...	1003	12.0	24300	23700	8.1	6.2	---	11.8	8.4	1.7	9.1
03...	1005	15.0	24300	23800	8.1	6.1	42.0	11.9	8.7	2.2	9.6
03...	1045	3.0	4500	23600	8.3	4.9	---	13.6	37.9	3.0	38.8
03...	1046	12.0	4500	24000	8.3	4.9	---	13.6	41.5	-.5	40.7
03...	1047	20.0	4500	25200	8.2	5.0	---	13.3	35.2	2.1	35.8
03...	1048	30.0	4500	26400	8.2	5.1	---	12.3	30.0	1.6	30.3
03...	1049	40.0	4500	28100	7.9	4.6	---	11.2	14.5	2.6	15.5
03...	1050	53.0	4500	31200	7.8	4.3	36.0	11.0	17.7	2.4	18.6
APR											
16...	1045	2.0	24300	27600	8.1	12.6	---	11.1	36.2	3.8	37.5
16...	1047	7.0	24300	27500	8.2	12.2	---	11.6	43.7	1.9	44.0
16...	1049	12.0	24300	27600	8.1	12.1	---	11.0	35.6	2.6	36.4
16...	1050	18.0	24300	27800	8.1	11.8	60.0	10.6	38.7	2.3	39.3
16...	1110	2.0	4500	27900	8.2	11.9	---	11.8	41.4	9.6	44.5
16...	1115	55.0	4500	28700	8.0	11.2	72.0	10.3	41.4	5.7	43.6
16...	1116	50.0	4500	28700	8.0	11.2	---	10.3	40.8	5.3	42.8
16...	1117	40.0	4500	28300	8.1	11.4	---	10.5	44.5	4.6	46.1
16...	1118	30.0	4500	28000	8.1	11.5	---	10.8	42.8	4.7	44.4
16...	1119	20.0	4500	28000	8.1	11.5	---	11.0	41.7	6.1	44.1
16...	1120	10.0	4500	27900	8.2	11.7	---	11.6	41.7	6.1	44.1
MAY											
20...	1025	2.0	4500	26300	8.3	16.1	---	9.2	36.3	3.2	37.3
20...	1030	58.0	4500	28000	8.0	15.7	60.0	4.7	68.8	7.2	71.2
20...	1031	50.0	4500	27400	8.2	16.0	---	6.2	65.2	6.6	67.5
20...	1032	40.0	4500	26700	8.3	16.1	---	8.0	50.9	4.8	52.5
20...	1033	30.0	4500	26500	8.4	16.1	---	8.8	46.8	14.4	53.1
20...	1034	20.0	4500	26400	8.3	16.0	---	8.9	45.0	3.8	46.2
20...	1035	12.0	4500	26400	8.3	16.0	---	8.9	44.2	4.0	45.5
20...	1036	7.0	4500	26300	8.3	16.0	---	9.1	41.0	4.3	42.5

380212076195000 - POTOMAC RIVER AT POINT LOOKOUT --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION: L BANK)	(000003)	(000009)	(00095)	PH (UNITS)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCI DISK (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR, (UG/L)	(32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR, (UG/L)	(32217)
MAY	1045	20.0	24300	24700	24700	24700	8.6	16.3	54.0	54.0	8.9	8.9	57.6	57.6	5.0	59.2	59.2	59.2	59.2
20.00	1047	12.0	24300	24600	24600	24600	8.6	16.4	---	---	8.9	8.9	58.5	58.5	6.3	60.7	60.7	60.7	60.7
20.00	1049	7.0	24300	24600	24600	24600	8.7	16.5	---	---	9.1	9.1	60.0	60.0	8.2	63.1	63.1	63.1	63.1
20.00	1050	2.0	24300	24700	24700	24700	8.7	16.6	---	---	9.6	9.6	57.0	57.0	4.8	58.5	58.5	58.5	58.5
JUN	1005	20.0	24300	23100	23100	23100	8.7	22.6	50.0	50.0	9.2	9.2	19.8	19.8	1.1	20.1	20.1	20.1	20.1
01.00	1006	10.0	24300	23100	23100	23100	8.7	22.7	---	---	9.2	9.2	19.6	19.6	1.4	20.0	20.0	20.0	20.0
01.00	1007	2.0	24300	23100	23100	23100	8.7	22.7	---	---	9.2	9.2	20.6	20.6	.6	20.6	20.6	20.6	20.6
01.00	1030	58.0	4500	33400	33400	33400	7.4	17.0	78.0	78.0	1.0	1.0	29.0	29.0	5.5	31.2	31.2	31.2	31.2
01.00	1031	45.0	4500	33300	33300	33300	7.4	16.9	---	---	1.1	1.1	26.2	26.2	3.6	27.6	27.6	27.6	27.6
01.00	1032	30.0	4500	27000	27000	27000	8.3	18.7	---	---	7.3	7.3	96.0	96.0	1.6	95.4	95.4	95.4	95.4
01.00	1033	10.0	4500	25800	25800	25800	8.8	21.2	---	---	11.1	11.1	24.8	24.8	2.2	25.6	25.6	25.6	25.6
01.00	1034	2.0	4500	25800	25800	25800	8.8	21.3	---	---	11.1	11.1	25.5	25.5	.8	25.6	25.6	25.6	25.6
10.00	0815	63.0	4500	35200	35200	35200	7.2	19.0	57.0	57.0	.7	.7	3.4	3.4	1.3	4.0	4.0	4.0	4.0
10.00	0816	50.0	4500	34700	34700	34700	7.4	19.4	---	---	.9	.9	3.7	3.7	1.2	4.2	4.2	4.2	4.2
10.00	0817	40.0	4500	33900	33900	33900	7.4	19.4	---	---	1.1	1.1	4.6	4.6	1.6	5.4	5.4	5.4	5.4
10.00	0818	35.0	4500	33500	33500	33500	7.4	19.5	---	---	1.1	1.1	4.2	4.2	1.5	4.9	4.9	4.9	4.9
10.00	0819	30.0	4500	30900	30900	30900	7.6	20.1	---	---	1.4	1.4	19.4	19.4	.8	19.5	19.5	19.5	19.5
10.00	0820	25.0	4500	26300	26300	26300	8.3	22.4	---	---	6.7	6.7	21.2	21.2	4.5	23.1	23.1	23.1	23.1
10.00	0821	20.0	4500	26000	26000	26000	8.4	22.9	---	---	7.6	7.6	19.0	19.0	2.9	20.1	20.1	20.1	20.1
10.00	0822	15.0	4500	25900	25900	25900	8.6	23.0	---	---	8.3	8.3	18.6	18.6	3.0	19.8	19.8	19.8	19.8
10.00	0823	10.0	4500	25300	25300	25300	8.5	23.0	---	---	7.7	7.7	15.4	15.4	1.0	15.6	15.6	15.6	15.6
10.00	0824	6.0	4500	25500	25500	25500	8.4	23.1	---	---	7.4	7.4	14.9	14.9	3.0	16.1	16.1	16.1	16.1
10.00	0825	3.0	4500	24300	24300	24300	8.3	23.3	---	---	7.0	7.0	10.0	10.0	2.9	11.2	11.2	11.2	11.2
15.00	1750	56.0	4500	34000	34000	34000	7.4	21.1	96.0	96.0	.0	.0	1.2	1.2	.6	1.5	1.5	1.5	1.5
15.00	1751	45.0	4500	33800	33800	33800	7.4	21.0	---	---	.0	.0	1.3	1.3	.7	1.6	1.6	1.6	1.6
15.00	1752	40.0	4500	32600	32600	32600	7.4	21.4	---	---	.0	.0	1.0	1.0	.6	1.3	1.3	1.3	1.3
15.00	1753	35.0	4500	30500	30500	30500	7.4	20.0	---	---	.0	.0	1.8	1.8	.7	2.1	2.1	2.1	2.1
15.00	1754	30.0	4500	29600	29600	29600	7.4	20.3	---	---	.0	.0	1.7	1.7	.8	2.1	2.1	2.1	2.1
15.00	1755	25.0	4500	27600	27600	27600	7.9	22.8	---	---	1.4	1.4	7.5	7.5	1.2	8.0	8.0	8.0	8.0
15.00	1756	20.0	4500	25800	25800	25800	8.5	24.2	---	---	5.7	5.7	3.4	3.4	1.2	3.9	3.9	3.9	3.9
15.00	1757	12.0	4500	25200	25200	25200	8.6	24.9	---	---	6.7	6.7	3.5	3.5	.7	3.8	3.8	3.8	3.8
15.00	1758	7.0	4500	24500	24500	24500	8.5	25.3	---	---	7.1	7.1	3.3	3.3	.7	3.6	3.6	3.6	3.6
15.00	1759	2.0	4500	23700	23700	23700	8.4	26.2	---	---	6.7	6.7	3.3	3.3	.9	3.7	3.7	3.7	3.7
15.00	1820	37.0	16800	30100	30100	30100	7.3	20.2	---	---	.0	.0	1.8	1.8	1.1	2.3	2.3	2.3	2.3
15.00	1821	30.0	16800	29300	29300	29300	7.4	20.4	---	---	.0	.0	1.4	1.4	.9	1.9	1.9	1.9	1.9
15.00	1822	25.0	16800	28200	28200	28200	7.4	21.3	---	---	.0	.0	2.3	2.3	1.4	2.9	2.9	2.9	2.9
15.00	1823	20.0	16800	26400	26400	26400	7.8	23.0	---	---	1.2	1.2	7.1	7.1	2.2	8.0	8.0	8.0	8.0
15.00	1824	15.0	16800	24300	24300	24300	8.5	24.9	---	---	7.0	7.0	3.6	3.6	.9	4.0	4.0	4.0	4.0
15.00	1825	7.0	16800	23900	23900	23900	8.5	25.4	---	---	7.2	7.2	2.9	2.9	.4	3.1	3.1	3.1	3.1

390212076195000 - POTOMAC RIVER AT POINT LOOKOJIT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLLIA FLURO- METRIC CORR. (UG/L) (32209)	PHEOPHY -TIN A FLURO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)
JUN 15...	1826	2.00	16800	23400	8.5	26.9	---	6.8	3.8	1.7	5.0
JUL 07...	0940	59.0	4500	28800	6.9	24.1	---	1.6	1.0	2.0	2.0
07...	0941	50.0	4500	28600	7.0	24.2	---	1.8	1.0	2.3	2.1
07...	0942	40.0	4500	28100	7.1	24.3	---	2.7	.7	2.4	1.9
07...	0943	30.0	4500	27200	7.3	24.7	---	4.7	3.4	3.0	4.8
07...	0944	21.0	4500	26900	7.4	24.8	---	5.1	5.4	2.6	6.6
07...	0945	14.0	4500	26800	7.4	24.8	---	5.2	8.0	3.1	9.4
07...	0946	7.0	4500	26500	7.5	25.0	---	5.4	7.5	2.9	8.8
07...	0947	2.0	4500	26400	7.5	25.1	---	5.6	10.0	2.5	11.1
07...	1025	39.0	16800	28100	6.9	23.8	---	.9	.6	2.0	1.6
07...	1026	30.0	16800	26500	7.0	24.5	---	2.6	1.2	3.3	2.8
07...	1027	21.0	16800	25300	7.5	25.0	---	5.1	4.2	5.1	6.6
07...	1028	14.0	16800	25200	7.6	25.1	---	5.7	4.4	3.5	6.0
07...	1029	7.0	16800	25100	7.7	25.2	---	6.3	3.8	2.6	5.4
07...	1030	2.0	16800	25100	7.7	25.4	---	6.6	4.8	2.8	6.0
15...	0800	55.0	4500	35600	7.1	25.2	84.0	.5	1.5	1.6	2.2
15...	0801	35.0	4500	33600	7.0	25.5	---	.9	2.4	2.4	3.5
15...	0802	25.0	4500	24300	7.9	27.1	---	6.5	13.7	3.5	15.2
15...	0803	12.0	4500	24300	7.9	27.1	---	6.7	10.2	19.8	19.7
15...	0804	3.0	4500	24300	7.9	27.1	---	6.7	15.0	3.5	16.5
27...	0930	24.0	4300	26800	7.7	26.8	---	5.6	7.2	3.3	8.7
27...	0931	19.0	24300	26800	7.7	26.8	---	6.0	8.1	2.7	9.3
27...	0932	13.0	24300	26700	7.8	26.7	---	6.2	10.6	2.2	11.5
27...	0933	6.0	24300	26700	7.8	26.9	---	6.4	10.3	2.7	11.4
27...	0934	1.0	24300	26700	7.8	26.9	---	6.5	8.8	2.2	9.7
27...	1005	1.5	4500	---	---	---	---	---	16.4	1.8	17.1
27...	1006	6.0	4500	---	---	---	---	---	20.6	3.2	21.9
27...	1007	13.0	4500	---	---	---	---	---	9.7	3.1	11.0
27...	1008	19.0	4500	---	---	---	---	---	6.4	2.9	7.7
27...	1009	29.0	4500	---	---	---	---	---	3.8	2.5	4.9
27...	1011	38.0	4500	33000	6.9	25.9	---	.0	.7	1.6	1.5
27...	1013	48.0	4500	33100	6.9	25.9	---	.0	.8	1.4	1.4
27...	1015	57.0	4500	33100	6.9	25.9	72.0	.4	.9	1.4	1.6
AUG 19...	0902	54.0	4500	32200	7.1	26.3	72.0	6.4	8.5	11.8	14.4
19...	0903	48.0	4500	29800	7.4	26.0	---	3.7	14.8	6.9	17.9
19...	0904	38.0	4500	29500	7.6	26.0	---	6.5	17.4	7.8	21.0
19...	0905	29.0	4500	29100	7.7	25.9	---	6.1	16.2	5.6	18.8
19...	0906	19.0	4500	28800	7.7	25.8	---	5.8	17.3	8.0	20.9

380212076195000 - POTOMAC RIVER AT POINT LOOKOUT --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L)	PHEOPY -TIN A FLURO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32213)	(32217)
AUG	19...	13.0	4500	28400	7.7	25.7	--	6.2	14.1	3.8	15.8	
	1908	6.0	4500	27500	7.9	25.6	--	6.8	12.1	3.6	13.7	
	1909	1.6	4500	27200	7.9	25.6	--	6.9	10.3	3.7	12.0	
	1955	45.0	16800	30800	7.2	26.1	60.0	1.3	--	--	--	
	1956	32.0	16800	29100	7.6	25.9	--	4.9	--	--	--	
	1957	22.0	16800	29000	7.6	25.8	--	5.0	--	--	--	
	1958	10.0	16800	26900	7.9	25.6	--	6.6	--	--	--	
	1959	1.6	16800	26800	7.9	25.5	--	6.9	--	--	--	
	1010	22.0	24300	29200	7.8	26.2	60.0	2.3	9.4	4.2	11.3	
	1011	19.0	24300	29200	7.3	26.3	--	2.2	7.8	4.6	10.0	
	1012	13.0	24300	26800	7.8	25.8	--	5.6	11.8	3.8	13.5	
	1013	6.0	24300	26700	7.9	25.7	--	6.0	12.8	2.4	13.8	
	1014	1.6	24300	26700	7.9	25.7	--	6.0	12.6	3.7	14.2	
SEP	1628	48.0	4500	35500	7.1	23.7	--	1.1	2.0	1.2	2.6	
	1629	38.0	4500	31000	7.5	24.0	--	5.1	5.4	1.9	6.3	
	1630	29.0	4500	29700	7.7	24.0	--	6.4	8.4	2.1	9.3	
	1631	19.0	4500	29600	7.8	24.5	--	7.2	12.4	2.3	13.3	
	1632	13.0	4500	29900	7.8	24.5	--	7.3	11.5	2.8	12.7	
	1633	6.0	4500	29600	7.7	24.3	--	7.4	11.6	2.6	12.7	
	1634	1.6	4500	29600	7.8	24.5	--	7.3	12.3	2.4	13.3	
	1640	57.0	4500	37700	7.2	23.7	78.0	1.0	1.2	1.7	2.0	
	1024	1.6	24300	27800	7.9	22.1	--	8.1	18.7	4.5	20.6	
	1026	6.0	24300	27800	7.8	22.0	--	8.0	18.0	4.5	19.9	
	1028	13.0	24300	28100	7.8	22.2	--	7.1	16.4	4.2	18.2	
	1029	19.0	24300	28200	7.8	22.2	--	7.0	14.2	5.0	16.4	
	1030	26.0	24300	28500	7.6	22.5	72.0	5.7	10.8	6.0	13.6	
	1043	48.0	4500	33200	7.5	23.1	--	3.7	3.0	2.6	4.2	
	1044	38.0	4500	30700	7.7	22.7	--	6.3	5.5	3.1	6.9	
	1045	29.0	4500	30500	7.7	22.7	--	6.6	6.5	2.3	7.5	
	1046	19.0	4500	30200	7.7	22.5	--	6.7	9.0	3.4	10.5	
	1047	13.0	4500	30200	7.7	22.3	--	7.0	9.3	3.1	10.7	
	1048	6.0	4500	30200	7.7	22.5	--	7.3	9.3	3.1	10.7	
	1049	1.6	4500	30200	7.8	22.5	--	7.3	10.0	2.2	10.9	
	1055	57.0	4500	34600	7.4	23.5	--	2.3	4.0	3.1	5.4	

APPENDIX A-2

380200076124100 - CHESAPEAKE BAY NR POTOMAC R / PT LOOKOUT TRENCH

WATER QUALITY DATA. WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLLA FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD UNCORR. (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
OCT											
22...	1500	2.0	--	31000	8.1	18.1	102	8.2	13.1	3.1	14.4
22...	1501	10.0	--	31000	8.0	18.1	--	8.1	13.9	2.7	15.0
22...	1502	23.0	--	31000	8.0	17.9	--	7.7	12.6	3.3	14.0
22...	1503	32.0	--	31500	7.9	18.1	--	6.9	7.7	2.2	8.7
22...	1504	55.0	--	33000	7.8	18.3	--	6.3	4.6	2.2	5.6
22...	1505	76.0	--	35100	7.7	18.6	--	5.3	1.7	2.5	2.9
NOV											
17...	1105	2.0	--	32400	7.7	10.9	72.0	9.1	11.6	3.0	12.8
17...	1106	10.0	--	32400	7.7	11.0	--	8.9	10.8	2.4	11.8
17...	1107	23.0	--	32500	7.7	11.1	--	8.8	9.4	2.5	10.4
17...	1108	32.0	--	32500	7.7	11.1	--	8.7	9.7	1.8	10.4
17...	1109	55.0	--	34600	7.7	11.6	--	7.9	7.9	3.6	9.5
17...	1110	75.0	--	35300	7.6	11.7	--	7.9	6.4	4.5	8.5
DEC											
15...	0800	2.0	--	32300	8.0	7.0	--	10.7	11.8	4.1	13.6
15...	0801	10.0	--	32300	8.0	7.0	--	10.7	13.1	3.9	14.8
15...	0802	20.0	--	32300	8.0	7.0	--	10.7	13.4	3.3	14.8
15...	0803	30.0	--	32300	7.9	7.0	--	10.6	12.8	3.6	14.3
15...	0804	55.0	--	33900	7.8	7.5	--	9.7	10.6	4.8	12.8
15...	0805	75.0	--	34900	7.8	7.5	84.0	9.3	15.0	7.5	18.4
JAN											
22...	1815	2.0	--	33000	8.2	.2	--	12.9	9.3	1.4	9.9
22...	1816	10.0	--	33200	8.2	.0	--	13.0	10.5	1.1	10.9
22...	1817	20.0	--	33400	8.2	.0	--	12.9	10.5	1.6	11.1
22...	1818	30.0	--	34300	8.2	.0	--	12.8	11.1	3.0	12.4
22...	1819	55.0	--	37100	8.1	--.1	--	12.2	11.7	2.1	12.5
22...	1820	72.0	--	37600	8.1	--.2	--	12.0	13.5	3.0	14.8
MAR											
03...	0805	3.0	--	24700	8.1	4.6	--	12.8	34.6	2.8	35.5
03...	0810	72.0	--	36600	7.8	4.4	54.0	10.8	11.2	2.9	12.5
03...	0812	65.0	--	36500	7.8	4.3	--	10.8	11.2	3.1	12.6
03...	0813	55.0	--	32700	7.9	4.3	--	11.5	10.9	1.7	11.6
03...	0814	45.0	--	31200	7.9	4.3	--	11.6	14.3	1.4	14.8
03...	0815	30.0	--	26500	8.1	4.7	--	12.5	28.1	2.1	28.8
03...	0816	20.0	--	25600	8.1	4.7	--	12.8	30.5	.4	30.2
03...	0817	12.0	--	25300	8.1	4.6	--	12.8	34.2	1.6	34.5
MAY											
20...	1245	75.0	--	35100	7.8	15.8	54.0	3.2	17.3	4.5	19.2
20...	1246	50.0	--	33000	7.9	16.0	--	4.6	22.8	2.4	23.6
20...	1247	25.0	--	27200	8.5	16.2	--	8.5	49.3	5.9	51.4

380200076124100 - CHESAPEAKE BAY NR POTOMAC R / PT LOOKOUT TRENCH
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE	(UMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCI DISK)	(00077)	OXYGEN, DIS- SOLVED	(MG/L)	(00300)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR.	(UG/L)	(32209)	PHEOPHY -TIN A FLURO- METRIC METHOD	(UG/L)	(32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR.	(UG/L)	(32217)
MAY																										
20...	1248	10.0		--	27000			8.5	8.5	16.3		--		9.2				51.7			3.1			52.5		
20...	1250	2.0		--	26900			8.5		16.3		--		9.3				49.6			5.4			51.6		
JUN																										
01...	1830	78.0		--	37100			7.5		17.1		78.0		2.3				2.5			2.2			3.5		
01...	1831	50.0		--	36000			7.5		17.1		--		2.3				6.4			2.6			7.6		
01...	1832	25.0		--	29300			8.1		18.3		--		5.3				57.4			--			56.5		
01...	1833	10.0		--	26500			8.8		21.9		--		9.9				23.5			.7			23.5		
01...	1834	2.0		--	26400			8.8		22.0		--		10.0				23.8			--			23.1		
JUL																										
15...	0721	65.0		--	39900			7.1		24.8		--		.8				1.4			1.0			1.9		
15...	0722	50.0		--	39700			7.1		24.8		--		.8				1.5			.4			1.7		
15...	0723	40.0		--	37900			7.1		25.1		--		.9				2.9			1.8			3.7		
15...	0724	35.0		--	36000			7.1		25.6		--		1.0				6.1			1.9			6.9		
15...	0725	30.0		--	26600			7.6		25.6		--		5.0				22.4			2.6			23.4		
15...	0726	21.0		--	26600			7.6		26.5		--		5.2				5.7			2.7			6.9		
15...	0727	14.0		--	25900			7.6		26.5		--		5.6				5.3			2.9			6.6		
15...	0728	7.0		--	25900			7.6		26.5		--		5.6				5.2			2.9			6.5		
15...	0730	2.0		--	25900			7.6		26.5		--		5.6				5.6			2.9			6.9		
15...	0735	75.0		--	39900			7.1		24.8		--	72.0	.8				1.4			1.0			1.8		
15...	0706	58.0		--	36200			6.9		25.7		--		.0				.6			1.3			1.2		
27...	0707	38.0		--	34300			6.9		25.8		--		.4				1.6			1.8			2.4		
27...	0708	37.0		--	33500			6.9		25.9		--		1.0				1.4			2.4			2.5		
27...	0709	29.0		--	28200			7.6		26.5		--		5.0				6.8			1.9			7.7		
27...	0710	19.0		--	26800			7.8		26.6		--		6.8				3.4			2.4			4.5		
27...	0711	10.0		--	26800			7.8		26.7		--		6.8				3.3			2.9			4.6		
27...	0712	1.6		--	26800			7.8		26.7		--		6.8				3.3			2.6			4.6		
27...	0720	80.0		--	37300			6.9		25.6		--	92.0	.0				.4			.4			.6		
AUG																										
17...	0850	74.0		--	38200			7.3		26.4		--	96.0	.4				1.9			2.0			2.8		
17...	0852	51.0		--	37100			7.3		26.4		--		.3				.9			1.6			1.7		
17...	0853	38.0		--	33000			7.2		26.5		--		.7				4.2			1.9			5.1		
17...	0854	32.0		--	30100			7.9		26.4		--		5.2				7.8			2.2			8.8		
17...	0855	26.0		--	30000			7.9		26.4		--		5.4				9.2			1.9			10.0		
17...	0856	16.0		--	30000			7.9		26.4		--		5.4				8.3			2.3			9.3		
17...	0857	1.6		--	29900			7.9		26.4		--		5.5				8.8			2.0			9.7		
19...	1230	70.0		--	36300			7.3		26.3		--	72.0	.4				2.2			.9			2.6		
19...	1231	54.0		--	35200			7.4		26.4		--		1.1				2.3			1.5			3.0		
19...	1232	44.0		--	33600			7.5		26.1		--		1.9				4.3			2.4			5.4		
19...	1233	35.0		--	30200			7.8		25.7		--		5.0				11.9			2.7			13.0		
19...	1234	26.0		--	29600			7.9		25.4		--		6.3				14.0			2.7			15.1		

380200076124100 - CHESAPEAKE BAY NR POTOMAC R / PT LOOKOUT TRENCH --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLDRO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLURO- METRIC METHOD (UG/L)	CHLDRO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG 19...	1235	13.0	--	29600	7.9	25.4	--	6.5	14.9	2.5	15.9
19...	1236	1.6	--	29600	7.9	25.4	--	6.5	15.2	2.6	16.3
SEP 10...	1715	83.0	--	40600	7.2	23.7	84.0	1.4	1.7	2.8	3.1
10...	1716	48.0	--	39500	7.3	23.7	--	1.4	2.5	2.6	3.8
10...	1717	29.0	--	33000	7.5	24.0	--	4.2	6.0	2.1	6.9
10...	1718	19.0	--	30100	7.9	23.9	--	7.2	4.6	2.3	5.6
10...	1719	10.0	--	29900	7.9	24.2	--	7.9	4.5	1.4	5.1
10...	1720	1.6	--	29900	7.9	24.5	--	8.2	6.4	2.0	7.3
21...	0845	58.0	--	36100	7.3	24.0	--	1.9	1.8	2.1	2.8
21...	0846	35.0	--	32400	7.6	23.1	--	5.2	4.6	3.3	6.2
21...	0847	22.0	--	31300	7.7	22.4	--	6.8	9.0	3.3	10.5
21...	0848	10.0	--	31300	7.8	22.7	--	6.9	8.7	3.8	10.4
21...	0849	1.6	--	31200	7.8	22.7	--	7.0	9.0	3.4	10.5
21...	0855	83.0	--	36600	7.3	24.0	84.0	1.3	1.5	2.0	2.5

APPENDIX A-2

375248076094200 - CHESAPEAKE BAY NR POTOMAC RIVER OFF SMITH POINT
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLOURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
OCT											
22...	1404	98.0	--	34800	7.7	18.4	120	6.2	2.6	3.5	4.2
22...	1405	55.0	--	34000	7.8	18.2	--	6.6	4.6	4.3	6.6
22...	1406	32.0	--	31400	7.8	17.9	--	7.3	9.7	2.5	10.7
22...	1407	23.0	--	30900	7.8	17.8	--	7.5	9.6	3.5	11.2
22...	1408	10.0	--	30200	7.9	17.8	--	7.8	10.4	3.3	11.8
22...	1415	2.0	--	27700	7.9	18.0	--	8.4	10.5	2.7	11.6
NOV											
17...	1146	10.0	--	31900	7.8	11.1	--	9.1	11.9	2.4	12.9
17...	1147	23.0	--	32400	7.8	11.2	--	8.6	10.4	3.4	11.9
17...	1148	32.0	--	34700	7.7	11.6	--	8.4	9.8	3.7	11.4
17...	1149	55.0	--	34800	7.7	11.6	--	8.3	9.1	4.8	11.3
17...	1150	2.0	--	31300	7.8	10.9	--	9.3	13.9	2.9	15.1
17...	1151	98.0	--	35500	7.7	11.8	60.0	8.3	9.5	3.4	11.0
17...	1155	130	--	↑	--	--	--	--	9.3	8.0	13.1
DEC											
15...	0850	98.0	--	35600	7.8	7.7	89.0	9.3	10.8	5.4	13.3
15...	0851	60.0	--	35600	7.8	7.7	--	9.3	10.4	5.5	13.0
15...	0852	30.0	--	32600	7.9	7.3	--	10.0	9.8	4.8	11.9
15...	0853	20.0	--	32500	7.9	7.2	--	10.2	9.9	4.4	11.9
15...	0854	10.0	--	32300	7.9	7.2	--	10.2	6.9	4.1	8.8
15...	0900	2.0	--	32100	7.9	7.0	--	10.4	8.4	4.6	10.5
15...	0905	117	--	↑	--	--	--	--	12.3	12.5	18.2
JAN											
22...	1704	98.0	--	39000	8.1	.0	86.0	12.1	14.1	3.5	15.6
22...	1705	60.0	--	38100	8.1	.0	--	12.3	11.8	2.9	13.1
22...	1706	30.0	--	34100	8.2	.0	--	13.0	10.0	1.2	10.4
22...	1707	20.0	--	33800	8.2	.2	--	13.0	9.6	1.0	9.9
22...	1708	10.0	--	32700	8.2	.3	--	13.0	9.6	.6	9.7
22...	1710	2.0	--	32300	8.2	.5	--	12.9	10.0	.6	10.2
22...	1715	130	--	↑	--	--	--	--	15.5	5.3	17.8
MAR											
03...	0848	98.0	--	39600	7.8	4.7	42.0	10.6	10.5	2.9	11.8
03...	0849	70.0	--	39100	7.8	4.8	--	10.7	9.9	1.3	10.3
03...	0850	50.0	--	35600	7.9	4.6	--	11.1	11.8	2.1	12.6
03...	0851	30.0	--	31600	8.0	4.5	--	11.9	15.3	2.1	16.1
03...	0852	20.0	--	28600	8.1	4.6	--	12.6	26.4	1.9	26.9
03...	0853	12.0	--	28200	8.2	4.6	--	12.8	27.6	1.4	27.9
03...	0855	3.0	--	28200	8.2	4.6	--	12.8	25.1	2.4	25.9
03...	0900	127	--	↑	--	--	--	--	14.2	6.8	17.3
MAY											
20...	1135	130	--	↑	--	--	--	--	14.9	2.5	15.9

375248076094200 - CHESAPEAKE BAY NR POTOMAC RIVER OFFI SMITH POINT
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPEH CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)
MAY											
20...	1140	2.0		27600	8.6	16.3		9.6	41.2	2.1	41.7
20...	1141	113		35900	7.7	16.0	60.0	3.4	13.7	1.8	14.4
20...	1142	75.0		35300	7.8	16.1		3.7	13.8	3.6	15.4
20...	1143	50.0		31600	8.1	16.1		5.4	36.1	2.8	36.9
20...	1144	25.0		27800	8.5	16.2		8.7	47.1	4.6	48.6
20...	1145	10.0		27700	8.5	16.2		9.1	46.3	2.1	46.6
JUN											
01...	0910	75.0		37800	7.5	17.2	72.0	2.6	1.1	1.3	1.7
01...	0911	50.0		37200	7.5	17.2		2.8	2.7	1.6	3.5
01...	0912	25.0		29800	8.3	18.8		6.8	34.0	2.6	34.8
01...	0913	10.0		26700	8.7	20.5		9.6	28.7	.4	28.5
01...	0914	2.0		26000	8.8	21.4		10.1	24.0	.7	24.0
JUL											
27...	0824	1.6		28500	7.8	26.8		6.2	10.2	2.6	11.3
27...	0825	10.0		29900	7.6	26.7		5.1	12.0	2.6	13.1
27...	0826	19.0		30200	7.6	26.7		4.8	17.0	3.4	18.4
27...	0827	29.0		30600	7.5	26.6		4.0	30.0	2.7	30.9
27...	0828	38.0		34100	7.0	26.3		.7	2.7	2.2	3.7
27...	0829	57.0		35800	7.0	26.1		.3	1.0	1.1	1.5
27...	0835	80.0		36500	7.0	26.1	72.0	.3	1.3	1.1	1.9
AUG											
19...	1211	99.0		36700	7.3	26.4	66.0	.5	2.0	2.0	3.0
19...	1212	64.0		36400	7.3	26.4		.7	2.6	1.7	3.4
19...	1213	48.0		36100	7.4	26.4		1.0	2.7	1.6	3.4
19...	1214	38.0		34800	7.4	26.2		1.6	4.8	2.3	5.8
19...	1215	32.0		31300	7.7	26.0		4.2	11.1	2.2	12.0
19...	1216	26.0		30200	7.8	25.8		5.3	12.2	3.1	13.5
19...	1217	19.0		29600	7.9	25.7		6.0	14.1	2.4	15.1
19...	1218	13.0		29600	7.9	25.7		6.1	15.5	2.4	16.4
19...	1219	6.0		29600	7.9	25.7		6.1	14.8	2.7	15.8
19...	1220	1.6		29600	7.9	25.7		6.2	15.9	3.2	17.2
SEP											
21...	0923	102		36300	7.4	24.0	78.0	2.3	2.8	2.5	3.9
21...	0924	70.0		35000	7.6	23.8		4.0	2.7	3.1	4.1
21...	0925	48.0		32600	7.6	23.1		5.3	4.2	4.1	6.2
21...	0926	35.0		31400	7.8	22.7		6.5	8.6	4.0	10.4
21...	0927	22.0		30500	7.8	22.4		7.0	13.9	5.9	16.6
21...	0928	10.0		29800	7.8	22.6		7.3	13.6	4.4	15.6
21...	0929	1.6		29000	7.9	22.4		7.9	13.4	3.8	15.0
21...	0935	120							1.8	4.6	4.0

APPENDIX A-3.- Major cation and anion data

APPENDIX A-3
 385315077031800 - POTOMAC RIVER AT MEMORIAL BRIDGE

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE	CHLORIDE, DIS- SOLVED (MG/L)	SILICA, DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	CALCIUM DIS- SOLVED (MG/L)	MAGNE- SIUM, DIS- SOLVED (MG/L)	SODIUM, DIS- SOLVED (MG/L)	POTAS- SIUM, DIS- SOLVED (MG/L)	ALKA- LITY LAB (MG/L)	SULFATE DIS- SOLVED (MG/L)	CHLO- RIDE, DIS- SOLVED (MG/L)
JUL 22...	0840	50000			36	8.3	14	2.8	93	33	12	
AUG 25...	2000	50000			30	9.6	25	3.1	72	71	21	
DATE			FLUO- RIDE, DIS- SOLVED (MG/L)	SILICA, DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	CALCIUM DIS- SOLVED (MG/L)	MAGNE- SIUM, DIS- SOLVED (MG/L)	SODIUM, DIS- SOLVED (MG/L)	POTAS- SIUM, DIS- SOLVED (MG/L)	ALKA- LITY LAB (MG/L)	SULFATE DIS- SOLVED (MG/L)	CHLO- RIDE, DIS- SOLVED (MG/L)
DATE			(00950)	(00955)	(70301)	(00618)	(00613)	(00631)	(00608)	(00607)	(00625)	
JUL 22...			.1	3.5	168	.61	.020	.63	.040	.43	.69	
AUG 25...			.1	1.5	205	.03	.020	.05	.200	.20	.71	
DATE			NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L)	PHOS- PHORUS, DIS- SOLVED (MG/L)	PHOS- PHORUS, DIS- SOLVED (MG/L)	CARBON, ORGANIC DIS- SOLVED (MG/L)	CARBON, ORGANIC TOTAL (MG/L)	CHLORO- PHYLL A METRIC CORR. (UG/L)	CHLORO- PHYLL A METRIC METHOD (UG/L)	CHLORO- PHYLL A FLOURO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLOURO- METRIC METHOD (UG/L)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L)
DATE			(00623)	(00665)	(00665)	(00681)	(00680)	(32209)	(32213)	(32217)	(70998)	
JUL 22...			.47	.081	.033	3.1	1.6	20.3	8.2	24.0	.7	
AUG 25...			.40	.048	.022	4.0	3.1	16.1	9.9	20.6	.6	
DATE			(00623)	(00665)	(00665)	(00681)	(00680)	(32209)	(32213)	(32217)	(70998)	

APPENDIX A-3

385039077012500 - POTOMAC RIVER AT GEISBORO POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)	CALCIJM DIS-SOLVED (MG/L) AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L) AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L) AS K) (00935)	ALKA-LINITY LAB AS CAC03) (90410)	SULFATE DIS-SOLVED (MG/L) AS S04) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) AS CL) (00940)
JUL 22...	0915	50000	34	7.9	15	3.1	82	40	12
AUG 25...	1925	50000	41	8.1	24	4.0	75	60	30

DATE	TIME	FLUID-RIDE, DIS-SOLVED (MG/L) AS F) (00950)	SILICA, DIS-SOLVED (MG/L) AS SI02) (00955)	SOLIDS, SPM OFI-CONSTI-TJENTS, DIS-SOLVED (MG/L) AS N) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L) AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L) AS N) (00607)	VITRO-GEN, AM-MONIA ORGANIC TOTAL (MG/L) AS N) (00625)
JUL 22...	.1	3.4	157	.58	.040	.62	.030	.54	.73	
AUG 25...	.2	2.0	222	1.50	.150	1.6	.230	.56	.90	

DATE	TIME	VITRO-GEN, AM-MONIA ORGANIC DIS (MG/L) AS N) (00623)	PHOS-PHORUS, TOTAL (MG/L) AS P) (00565)	PHOS-PHORUS, DIS-SOLVED (MG/L) AS P) (00566)	CARBON, ORGANIC TOTAL (MG/L) AS C) (00680)	CARBON, DIS-SOLVED (MG/L) AS C) (00681)	CHLORO-PHYLL A FLUORO-METRIC CORR. (UG/L) (32209)	CHLORO-PHYLL A FLUORO-METRIC METHOD UNCORR. (UG/L) (32217)	CHLORO-PHYLL A FLUORO-METRIC METHOD UNCORR. (UG/L) (32213)	PHEOPHY-TIN A FLUORO-METRIC METHOD (UG/L) (32213)	CHLORO-PHYLL A FLUORO-METRIC METHOD UNCORR. (UG/L) (32217)	ADE-NOSINE TRI-PHOS-PHATE (ATP) (UG/L) (70998)
JUL 22...	.57	.088	.016	4.8	3.2	34.0	21.1	43.8	1.0			
AUG 25...	.79	.117	.052	4.5	3.7	---	---	---	5.6			

384852077020500 - POTOMAC RIVER AT MARLBURY POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SAMPLE	CHLORIDE, DIS-SOLVED (MG/L AS CL) (009407)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	ALKALINITY LAB AS CAC03 (90410) (00945)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	CALCIUM, DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SECTION (FT FM L BANK) (00009)	TITLE
JUL 22...	0750 50000	16	46	87	3.5	16	35	8.1		
AUG 25...	1900 50000	32	58	73	4.1	24	37	7.5		

DATE	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SPM OF FINESTENTS, DIS-SOLVED (MG/L AS SIO2) (70301) (00955)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	VITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NITROGEN, N02+N03 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, SEVEN, ORGANIC DIS-SOLVED (MG/L AS V) (00607)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
JUL 22...	.2	3.8	186	1.20	.050	1.2	.140	.49	1.10
AUG 25...	.3	1.8	213	1.60	.180	1.8	.310	.20	1.30

DATE	NITROGEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)	PHOSPHORUS, TOTAL (MG/L AS P) (00565)	PHOSPHORUS, DIS-SOLVED (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CHLOROPHYLL A FLUOROMETRIC METHOD CORRECTED (UG/L) (32209)	CHLOROPHYLL A FLUOROMETRIC METHOD UNCORRECTED (UG/L) (32213)	CHLOROPHYLL A FLUOROMETRIC METHOD UNCORRECTED (UG/L) (32217)	ADENOSINE TRIPHOSPHATE (ATP) (UG/L) (70998)
JUL 22...	.63	.142	.038	4.9	2.4	36.4	19.8	45.4	4.4
AUG 25...	.51	.114	.049	4.9	3.4	61.5	14.2	67.5	8.8

01652590 - POTOMAC R AT ALEXANDRIA, VA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOCATION	CALCIUM DIS-SOLVED (MG/L)	MAGNE-SIUM DIS-SOLVED (MG/L)	SODIUM DIS-SOLVED (MG/L)	POTAS-SIUM DIS-SOLVED (MG/L)	ALKA-LINITY LAB (MG/L AS CAC03)	SULFATE DIS-SOLVED (MG/L AS S04)	CHLD-RIDE, DIS-SOLVED (MG/L AS CL)	FLJD-RIDE, DIS-SOLVED (MG/L AS F)
FER	0920	3400	51	11	39	3.2	--	78	41	.3
04...	0950	600	52	11	42	4.3	--	77	50	.4
JUL	0645	30000	36	8.1	20	4.5	72	32	26	.3
22...	0720	40000	35	8.0	16	3.6	78	41	16	.2
22...	1755	30000	36	8.6	24	4.9	67	62	38	.3
AUG	25...	40000	36	8.7	23	4.5	68	59	36	.3
25...	1015	3400	45	11	24	3.9	84	84	34	.2
SFP										
22...										
DATE										
FER	1.0	320	307	2.30	.020	2.3	.530	.30	.98	.83
04...	1.7	325	319	3.20	.030	3.2	.980	.52	1.70	1.5
JUL	4.4	--	185	2.20	.080	2.3	.420	.68	1.60	1.1
22...	3.9	--	176	1.20	.060	1.3	.180	.40	1.10	.58
22...	1.4	--	227	2.30	.210	2.5	.190	.78	1.10	.97
AUG	1.2	--	218	1.60	.200	1.8	.190	.60	1.10	.79
25...	4.9	--	265	1.60	.100	1.7	.310	.47	.93	.78
25...										
SFP										
22...										

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	P-10S- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLURO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLLIA FLURO- METRIC METHOD UNCORR. (UG/L) (32217)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)
FEB 04...	.162	.087	10	--	--	4.3	1.6	5.0	--
04...	.204	.125	10	--	--	4.5	1.1	4.9	--
JUL 22...	.151	.060	--	5.1	2.4	35.4	17.0	43.2	6.8
22...	.135	.063	--	4.6	2.4	35.9	19.4	44.8	4.6
AUG 25...	.154	.042	--	5.7	4.5	82.9	9.8	86.5	11
25...	.122	.030	--	4.6	4.9	63.0	17.3	70.5	6.7
SEP 22...	.214	.128	--	3.7	--	--	--	--	--

384605077015800 - POTOMAC RIVER AT ROSIER BLUFF

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB AS CAC03 (90410)	SULFATE DIS-SOLVED (MG/L AS S04) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
JUL 22...	0615	50000	34	8.1	17	4.2	74	46	22
AUG 25...	1730	50000	34	8.4	23	4.5	66	57	34

DATE	TIME	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00450)	SILICA, DIS-SOLVED (MG/L AS SI02) (00955)	SOLIDS, SPM OF CONSTITUENTS, DIS-SOLVED (MG/L AS) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, AMMONIA ORGANIC TOTAL (MG/L AS N) (00625)
JUL 22...	02	4.2	198	1.60	0.070	1.7	0.450	1.3	1.60	
AUG 25...	03	1.1	210	1.40	0.200	1.6	0.150	0.52	1.10	

DATE	TIME	NITRO-GEN, AMMONIA ORGANIC DIS (MG/L AS N) (00623)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CHLORO-PHYLL A FLUORO-METRIC CORR. (UG/L) (32209)	CHLORO-PHYLL A FLUORO-METRIC METHOD (UG/L) (32213)	CHLORO-PHYLL A FLUORO-METRIC METHOD (UG/L) (32217)	ADENOSINE TRIPHOSPHATE (ATP) (UG/L) (70998)
JUL 22...	1.7	0.149	0.061	5.3	3.2	35.4	15.6	42.5	0	
AUG 25...	0.67	0.118	0.024	4.9	4.3	66.8	13.0	72.1	14	

384318077020300 - POTOMAC RIVER AT HATTON POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION, (FT FM L BANK) (00009)	CALCIJM DIS- SOLVED (MG/LI AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LITY LAB AS CAC03 (90410)	SULFATE DIS- SOLVED (MG/L AS S04) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL 22...	0625	50000	31	11	47	5.0	67	37	72
AUG 25...	2320	50000	36	8.8	24	4.5	68	59	36

DATE	TIME	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SID2) (00955)	SOLIDS, SUM OF: CONSTI- TJENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
JUL 22...		.2	3.9	254	1.50	.070	1.6	.380	.49	1.40
AUG 25...		.3	1.0	218	1.50	.190	1.7	.170	.43	.97

DATE	TIME	NITRO- GEN,AM- MONIA + ORGANIC DIS- (MG/L AS N) (00623)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L) (32209)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)
JUL 22...		.87	.132	.044	6.4	3.2	42.7	13.3	48.5	3.9
AUG 25...		.60	.123	.026	4.0	3.7	71.6	14.1	77.4	29

APPENDIX A-3

384136077054500 - POTOMAC RIVER AT MARSHALL HALL

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOCATION	MAGNESIUM, DIS-SOLVED (MG/L) (00925)	SODIUM, DIS-SOLVED (MG/L) (00930)	POTASSIUM, DIS-SOLVED (MG/L) (00935)	ALKALINITY LAB (MG/L) (90410)	SULFATE, DIS-SOLVED (MG/L) (00945)	CHLORIDE, DIS-SOLVED (MG/L) (00940)
JUL 22...	0715	50000	8.0	18	3.8	56	43	20
AUG 25...	2145	50000	8.5	23	4.2	56	52	34

DATE	TIME	SI-LICA, DIS-SOLVED (MG/L) (00955)	SOLIDS, SPM OFI (70301)	NITROGEN, NITRATE DIS-SOLVED (MG/L) (00618)	NITROGEN, NITRATE DIS-SOLVED (MG/L) (00613)	NITROGEN, NITROGEN+NO3 DIS-SOLVED (MG/L) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITROGEN, DIS-SOLVED (MG/L) (00607)	NITROGEN, AMMONIA ORGANIC TOTAL (MG/L) (00625)
JUL 22...	0715	4.1	165	1.50	0.60	1.6	0.310	0.53	1.10
AUG 25...	0730	0.8	191	1.00	0.160	1.2	0.150	0.41	0.93

DATE	TIME	NITROGEN, AMMONIA ORGANIC DIS-SOLVED (MG/L) (00623)	PHOSPHORUS, TOTAL (MG/L) (00565)	PHOSPHORUS, DIS-SOLVED (MG/L) (00666)	CARBON, ORGANIC TOTAL (MG/L) (00680)	CARBON, ORGANIC DIS-SOLVED (MG/L) (00681)	CHLOROPHYLL A METRIC CORR. (UG/L) (32209)	CHLOROPHYLL A METRIC METHOD (UG/L) (32213)	ADENOSINE TRIPHOSPHATE (ATP) (UG/L) (70998)
JUL 22...	0840	0.84	0.114	0.048	4.8	3.2	25.7	29.8	4.6
AUG 25...	0856	0.56	0.119	0.028	4.3	4.1	45.0	51.9	9.2

APPENDIX A-3

343818077072900 - POTOMAC RIVER AT HALLOWING POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE	CHLORIDE, RIDEN, DIS- SOLVED (MG/L) AS CL ⁻ (009407)	SULFATE DIS- SOLVED (MG/L) AS SO ₄ (00945)	ALKA- LITY LAB (MG/L) AS CACO ₃ (90410)	POTAS- SIUM, DIS- SOLVED (MG/L) AS K (00935)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG (00925)	SODIUM, DIS- SOLVED (MG/L) AS NA (00930)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L) AS N (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N (00613)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L) AS N (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N (00508)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N (00507)	NITRO- GEN, AM- MONIA ORGANIC TOTAL (MG/L) AS N (00625)	
JUL 22...	0800	50000			43	3.5	7.3	16						40	16
AUG 25...	2015	50000			41	5.9	13	71						55	130
JUL 22...			FLUO- RIDE, DIS- SOLVED (MG/L) AS F (00950)	SILICA, DIS- SOLVED (MG/L) AS (00955)	SOLIDS, SJM OFI CONSTITU- ENTS, DIS- SOLVED (MG/L) AS (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L) AS N (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N (00613)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L) AS N (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N (00508)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N (00507)	NITRO- GEN, AM- MONIA ORGANIC TOTAL (MG/L) AS N (00625)				
JUL 22...			0.2	3.6	139	1.10	0.40	1.1	0.110	0.42	0.97				
AUG 25...			0.3	0.5	328	0.77	0.120	0.89	0.130	0.47	0.94				
JUL 22...			NITRO- GEN, AM- MONIA ORGANIC DIS- SOLVED (MG/L) AS F (00623)	PHOS- PHORUS, TOTAL (MG/L) AS P (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L) AS P (00665)	CARBON, ORGANIC DIS- SOLVED (MG/L) AS C (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L) AS C (00681)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L) (32209)	PHEOPHY- TIN A FLURO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD JNCORR. (UG/L) (32217)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)				
JUL 22...			0.53	0.120	0.031	4.2	2.4	40.8	19.2	49.5	2.5				
AUG 25...			0.60	0.114	0.038	3.2	3.8	60.0	15.4	66.6	9.2				

01660800 - POTOMAC R NR MORGANTOWN, MD

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	LOC- SECTION (FT FM L BANK)	CALCIUM DIS- SOLVED (MG/L)	MAGNE- SIUM, DIS- SOLVED (MG/L)	SODIUM, DIS- SOLVED (MG/L)	POTAS- SIUM, DIS- SOLVED (MG/L)	ALKA- LITY LAB (MG/L)	SULFATE DIS- SOLVED (MG/L)	CHLO- RIDE, DIS- SOLVED (MG/L)
JAN 22...	0910	2.0	1500	150	430	5300	210	--	1100	7700
JAN 22...	0915	60.0	1500	160	440	5200	210	--	1100	9400
SEP 21...	1550	3.0	1500	130	390	3700	120	75	750	6500
SEP 21...	1555	67.0	1500	160	490	4200	140	77	1100	7900

DATE	TIME	FLUO- RIDE, DIS- SOLVED (MG/L)	SILICA, DIS- SOLVED (MG/L)	SOLIDS, RESIDJE AT 180 DEG. C DIS- SOLVED (MG/L)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L)
JAN 22...	06	--	--	16200	--	--	<.010	.22	.010	.20
JAN 22...	06	.1	.1	16700	--	--	<.010	.19	.020	.08
SEP 21...	04	4.2	4.2	11600	.23	.23	.150	.38	.030	.43
SEP 21...	05	3.9	3.9	14000	.20	.20	.150	.35	.040	.48

DATE	TIME	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L)	PHOS- PHORUS, DIS- SOLVED (MG/L)	PHOS- PHORUS, DIS- SOLVED (MG/L)	IRON, DIS- SOLVED (UG/L)	CARBON, ORGANIC TOTAL (MG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD (UG/L)
JAN 22...	016	.21	.051	.021	.021	<10	--	17.3	18.3
JAN 22...	018	.10	.056	.020	.020	<10	--	27.2	28.7
SEP 21...	047	.45	.091	.073	.073	--	2.7	--	--
SEP 21...	044	.52	.090	.070	.070	--	2.0	4.3	5.0

01661475 - POTOMAC R AT PINEY POINT, MD

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMP- DEPTH (FT)	SAMPLE		CALCIUM DIS- SOLVED (MG/L)	MAGNE- SIUM, DIS- SOLVED (MG/L)	SODIUM, DIS- SOLVED (MG/L)	POTAS- SIUM, DIS- SOLVED (MG/L)	ALKA- LITY LAB (MG/L)	SULFATE DIS- SOLVED (MG/L)	CHLD- RIDE, DIS- SOLVED (MG/L)
				LOC- ATION, CROSS SECTION (FT)	LOC- ATION, CROSS SECTION (FT)							
JAN 22...	1425	2.0	4500	180	530	6300	250	--	1300	9800		
JAN 22...	1430	53.0	4500	190	570	6300	270	--	1400	10000		
SEP 21...	1130	90.0	4500	230	770	6600	240	89	1600	12000		
SEP 21...	1135	1.6	4500	180	570	5300	170	79	1100	9600		
SEP 21...	1220	1.6	10800	170	540	5100	180	75	1100	9300		
SEP 21...	1225	32.0	10800	180	630	5900	190	81	--	12000		

DATE	TIME	SAMP- DEPTH (FT)	SAMP- DEPTH (FT)	FLUO- RIDE, DIS- SOLVED (MG/L)	SILICA, DIS- SOLVED (MG/L)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L)
JAN 22...		.6	.0	19600	--	--	--	<.010	.15	.010	.18	
JAN 22...		.6	--	20900	--	--	--	<.010	.03	.040	--	
SEP 21...		.5	2.4	--	21500	.14	.090	.090	.23	.090	.11	
SEP 21...		.5	2.5	--	17000	--	<.010	.03	.040	.040	.44	
SEP 21...		.5	2.5	--	16400	--	<.010	.03	.030	.030	.17	
SEP 21...		.5	2.4	--	--	.08	.060	.14	.090	.090	.32	

DATE	TIME	SAMP- DEPTH (FT)	SAMP- DEPTH (FT)	NITRO- GEN, AMMONIA TOTAL (MG/L)	NITRO- GEN, ORGANIC TOTAL (MG/L)	PHOS- PHORUS, TOTAL (MG/L)	PHOS- PHORUS, DIS- SOLVED (MG/L)	IRON, DIS- SOLVED (UG/L)	CARBON, ORGANIC TOTAL (MG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD (UG/L)
JAN 22...		.16	.19	.033	.022	<.10	<.10	--	--	12.7	13.3
JAN 22...		.23	<.10	.045	.019	<.10	<.10	--	--	14.6	15.6
SEP 21...		.28	.20	.109	.086	--	--	2.5	3.0	2.7	4.3
SEP 21...		.47	.48	.092	.049	--	--	3.4	12.8	3.2	14.2
SEP 21...		.27	.20	.073	.049	--	--	3.1	13.8	3.8	15.5
SEP 21...		.40	.41	.079	.066	--	--	2.2	3.9	4.0	5.8

APPENDIX A-4.- Sediment size data

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SEDI-MENT, SJS-PENDECD (MG/L) (80154)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM (70337)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70334)
APR 14...	1515	1350	247	30	47	61	79	92	98	100	100	100
APR 16...	1520	1350	192	40	60	80	93	99	99	99	100	--

01652590 - POTOMAC R AT ALEXANDRIA, VA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SEDI-MENT, SJS-PENDEJ (MG/L) (80154)	SED. SJS-PENDEJ (70337)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. SIEVE DIAM. % FINER THAN .125' MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)
APR 15...	1200	3400	135	32	51	69	84	93	100	100	100	100
15...	1210	3400	125	41	57	80	88	97	99	99	100	100
15...	1300	500	51	45	61	75	88	95	99	100	100	100
16...	1140	500	105	58	77	92	97	99	100	100	100	100
16...	1335	3400	149	43	63	81	93	98	100	100	100	100
17...	1130	3400	110	37	60	76	91	97	100	100	100	100
17...	1145	3400	85	36	59	80	94	98	99	99	99	100
17...	1200	500	49	52	75	90	95	97	100	100	100	100
17...	1215	500	59	60	76	89	94	97	98	99	99	100

01558710 - POTOMAC RIVER AT QUANTICO, VA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LDC- ATION, CROSS SECTION (FT F4 L BANK) (00009)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SED. SUSP. FALL DIAM. % FINER THAN (70337)	SED. SUSP. FALL DIAM. % FINER THAN (70338)	SED. SUSP. FALL DIAM. % FINER THAN (70339)	SED. SUSP. FALL DIAM. % FINER THAN (70340)
APR 16...	0920	5000	62	48	72	90	95
17...	0920	5000	59	36	59	80	89
17...	0930	5000	67	40	63	82	96

DATE	SED. SUSP. FALL DIAM. % FINER THAN (70341)	SED. SUSP. SIEVE DIAM. % FINER THAN (70331)	SED. SUSP. SIEVE DIAM. % FINER THAN (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN (70335)
APR 16...	100	99	99	99	100	--
17...	95	97	99	99	99	100
17...	98	99	99	100	--	--

APPENDIX B-1.- High and low water predictions

WASHINGTON, D.C., 1981

Times and Heights of High and Low Waters

JANUARY						FEBRUARY						MARCH																											
Day	Time		Height		Day	Time		Height		Day	Time		Height		Day	Time		Height																					
	h.m.	ft.	m.	h.m.		ft.	m.	h.m.	ft.		m.	h.m.	ft.	m.		h.m.	ft.	m.	h.m.	ft.	m.																		
1	0421	2.0	0.6		16	0402	2.1	0.6		1	0521	2.1	0.6		16	0038	-0.5	-0.2		1	0347	2.2	0.7		16	0443	2.3	0.7											
Th	1036	-0.2	-0.1		F	1055	-0.5	-0.2		Su	1137	-0.1	0.0		M	0553	2.2	0.7		Su	1001	0.2	0.1		M	1127	-0.1	0.0											
	1636	2.3	0.7			1621	2.5	0.8			1719	2.5	0.8			1241	-0.4	-0.1			1539	2.6	0.8			1701	2.5	0.8											
	2335	-0.2	-0.1			2356	-0.5	-0.2								1809	2.5	0.8			2312	0.2	0.1																
2	0511	2.1	0.6		17	0506	2.1	0.6		2	0043	-0.1	0.0		17	0131	-0.6	-0.2		2	0439	2.3	0.7		17	0014	-0.2	-0.1											
F	1125	-0.2	-0.1		Sa	1156	-0.6	-0.2		M	0604	2.2	0.7		Tu	0644	2.3	0.7		M	1103	0.2	0.1		Tu	0539	2.4	0.7											
	1719	2.4	0.7			1721	2.5	0.8			1232	-0.1	0.0			1335	-0.5	-0.2			1637	2.7	0.8			1225	-0.2	-0.1											
											1803	2.7	0.8			1859	2.5	0.8							1756	2.5	0.8												
3	0028	-0.2	-0.1		18	0054	-0.7	-0.2		3	0131	-0.2	-0.1		18	0218	-0.6	-0.2		3	0006	0.2	0.1		18	0105	-0.3	-0.1											
Sa	0557	2.1	0.6		Su	0604	2.1	0.6		Tu	0644	2.3	0.7		W	0731	2.3	0.7		Tu	0524	2.5	0.8		W	0628	2.5	0.8											
	1214	-0.2	-0.1			1254	-0.6	-0.2			1323	-0.1	0.0			1424	-0.5	-0.2			1204	0.1	0.0			1318	-0.2	-0.1											
	1759	2.5	0.8			1817	2.6	0.8			1846	2.8	0.9			1947	2.5	0.8			1730	2.8	0.9			1846	2.6	0.8											
4	0115	-0.2	-0.1		19	0147	-0.7	-0.2		4	0215	-0.2	-0.1		19	0300	-0.6	-0.2		4	0055	0.1	0.0		19	0149	-0.3	-0.1											
Su	0641	2.2	0.7		M	0657	2.2	0.7		W	0723	2.5	0.8		Th	0817	2.4	0.7		W	0609	2.7	0.8		Th	0713	-0.2	-0.1											
	1302	-0.2	-0.1			1347	-0.7	-0.2			1414	-0.2	-0.1			1509	-0.5	-0.2			1259	0.0	0.0			1406	-0.2	-0.1											
	1837	2.6	0.8			1910	2.6	0.8			1930	2.9	0.9			2030	2.6	0.8			1819	3.0	0.9			1930	2.7	0.8											
5	0201	-0.2	-0.1		20	0239	-0.8	-0.2		5	0259	-0.3	-0.1		20	0340	-0.5	-0.2		5	0141	0.0	0.0		20	0230	-0.2	-0.1											
M	0719	2.2	0.7		Tu	0747	2.2	0.7		Th	0800	2.6	0.8		F	0857	2.5	0.8		Th	0651	2.9	0.9		F	0752	2.7	0.8											
	1349	-0.2	-0.1			1439	-0.7	-0.2			1503	-0.3	-0.1			1553	-0.4	-0.1			1352	-0.1	0.0			1449	-0.2	-0.1											
	1911	2.7	0.8			2000	2.6	0.8			2012	3.0	0.9			2113	2.6	0.8			1905	3.1	0.9			2011	2.7	0.8											
6	0246	-0.3	-0.1		21	0324	-0.8	-0.2		6	0341	-0.3	-0.1		21	0417	-0.4	-0.1		6	0226	-0.1	0.0		21	0306	-0.2	-0.1											
Tu	0752	2.3	0.7		W	0835	2.3	0.7		F	0841	2.8	0.9		Sa	0935	2.5	0.8		F	0733	3.1	0.9		Sa	0829	2.8	0.9											
	1435	-0.2	-0.1			1527	-0.7	-0.2			1550	-0.4	-0.1			1635	-0.4	-0.1			1443	-0.2	-0.1			1530	-0.2	-0.1											
	1951	2.8	0.9			2045	2.5	0.8			2058	3.0	0.9			2153	2.5	0.8			1955	3.2	1.0			2051	2.7	0.8											
7	0327	-0.3	-0.1		22	0409	-0.8	-0.2		7	0422	-0.4	-0.1		22	0450	-0.4	-0.1		7	0309	-0.2	-0.1		22	0342	-0.1	0.0											
W	0828	2.4	0.7		Th	0921	2.3	0.7		Sa	0923	2.9	0.9		Su	1013	2.5	0.8		Sa	0816	3.2	1.0		Su	0905	2.9	0.9											
	1520	-0.2	-0.1			1614	-0.6	-0.2			1638	-0.4	-0.1			1715	-0.3	-0.1			1532	-0.3	-0.1			1610	-0.1	0.0											
	2030	2.9	0.9			2132	2.5	0.8			2145	3.0	0.9			2235	2.5	0.8			2042	3.2	1.0			2129	2.7	0.8											
8	0408	-0.3	-0.1		23	0448	-0.7	-0.2		8	0504	-0.4	-0.1		23	0523	-0.3	-0.1		8	0353	-0.3	-0.1		23	0414	0.0	0.0											
Th	0905	2.5	0.8		F	1006	2.3	0.7		Su	1009	2.9	0.9		M	1049	2.6	0.8		Su	0901	3.3	1.0		M	0934	2.9	0.9											
	1605	-0.2	-0.1			1657	-0.6	-0.2			1730	-0.4	-0.1			1755	-0.2	-0.1			1622	-0.4	-0.1			1648	0.0	0.0											
	2113	2.9	0.9			2217	2.4	0.7			2235	2.9	0.9			2318	2.4	0.7			2130	3.2	1.0			2206	2.7	0.8											
9	0449	-0.3	-0.1		24	0528	-0.6	-0.2		9	0550	-0.4	-0.1		24	0558	-0.2	-0.1		9	0438	-0.3	-0.1		24	0445	0.1	0.0											
F	0945	2.5	0.8		Sa	1049	2.3	0.7		M	1057	2.9	0.9		Tu	1126	2.5	0.8		M	0947	3.3	1.0		Tu	1008	2.9	0.9											
	1654	-0.3	-0.1			1742	-0.5	-0.2			1824	-0.4	-0.1			1837	0.0	0.0			1715	-0.4	-0.1			1728	0.1	0.0											
	2200	2.8	0.9			2304	2.3	0.7			2328	2.7	0.8							2221	3.1	0.9			2245	2.6	0.8												
10	0531	-0.3	-0.1		25	0605	-0.5	-0.2		10	0637	-0.4	-0.1		25	0003	2.3	0.7		10	0526	-0.3	-0.1		25	0518	0.2	0.1											
Sa	1029	2.6	0.8		Su	1133	2.2	0.7		Tu	1149	2.8	0.9		W	0635	-0.1	0.0		Tu	1037	3.3	1.0		W	1041	2.9	0.9											
	1742	-0.3	-0.1			1827	-0.4	-0.1			1922	-0.4	-0.1			1208	2.5	0.8			1810	-0.3	-0.1			1808	0.2	0.1											
	2249	2.7	0.8			2352	2.2	0.7							1925	0.1	0.0			2315	2.9	0.9			2326	2.6	0.8												
11	0615	-0.3	-0.1		26	0643	-0.4	-0.1		11	0027	2.5	0.8		26	0052	2.2	0.7		11	0616	-0.3	-0.1		26	0555	0.3	0.1											
Su	1118	2.6	0.8		M	1218	2.2	0.7		W	0729	-0.4	-0.1		Th	0717	0.0	0.0		W	1129	3.1	0.9		Th	1120	2.9	0.9											
	1837	-0.3	-0.1			1914	-0.3	-0.1			1248	2.7	0.8			1253	2.5	0.8			1907	-0.3	-0.1	</															

WASHINGTON, D.C., 1981

Times and Heights of High and Low Waters

JULY				AUGUST				SEPTEMBER								
Day	Time	Height		Day	Time	Height		Day	Time	Height		Day	Time	Height		
	h.m.	ft.	m.		h.m.	ft.	m.		h.m.	ft.	m.		h.m.	ft.	m.	
1	0128	-0.1	0.0	16	0129	0.4	0.1	1	0417	0.1	0.0	16	0357	0.2	0.1	
W	0651	3.5	1.1	Th	0702	3.3	1.0	Sa	0822	3.3	1.0	Su	0754	3.5	1.1	
	1429	-0.3	-0.1		1432	0.3	0.1		1521	0.3	0.1	Tu	0934	3.1	0.9	
	1933	2.9	0.9		1946	2.8	0.9		2100	2.9	0.9		1636	3.0	0.0	
									2022	3.2	1.0		2157	3.0	0.9	
2	0224	-0.1	0.0	17	0216	0.5	0.2	2	0353	-0.1	0.0	17	0328	0.4	0.1	
Th	0743	3.5	1.1	F	0737	3.3	1.0	Su	0910	3.2	1.0	M	0836	3.6	1.1	
	1520	-0.3	-0.1		1630	0.3	0.1		1601	0.2	0.1	W	1016	3.0	0.9	
	2027	2.9	0.9		2019	2.8	0.9		2146	2.9	0.9		1712	0.1	0.0	
									2102	3.3	1.0		2235	3.0	0.9	
3	0319	-0.1	0.0	18	0302	0.5	0.2	3	0441	0.0	0.0	18	0416	0.3	0.1	
F	0834	3.4	1.0	Sa	0815	3.4	1.0	M	0957	3.1	0.9	Tu	0920	3.5	1.1	
	1609	-0.4	-0.1		1553	0.3	0.1		1712	-0.2	-0.1		1641	0.2	0.1	
	2119	2.9	0.9		2055	2.9	0.9		2232	2.9	0.9		2145	3.4	1.0	
4	0411	-0.1	0.0	19	0347	0.5	0.2	4	0528	0.1	0.0	19	0504	0.3	0.1	
Sa	0925	3.3	1.0	Su	0855	3.4	1.0	Tu	1045	3.0	0.9	W	1006	3.5	1.1	
	1657	-0.4	-0.1		1632	0.3	0.1		1750	-0.1	0.0		1723	0.2	0.1	
	2211	2.9	0.9		2129	3.0	0.9		2318	2.9	0.9		2230	3.5	1.1	
5	0502	-0.1	0.0	20	0433	0.5	0.2	5	0615	0.2	0.1	20	0555	0.3	0.1	
Su	1018	3.2	1.0	M	0937	3.4	1.0	W	1131	2.8	0.9	Th	1057	3.3	1.0	
	1743	-0.3	-0.1		1710	0.3	0.1		1828	0.0	0.0		1808	0.2	0.1	
	2303	2.8	0.9		2209	3.1	0.9		2320	3.4	1.0		2320	3.4	1.0	
6	0553	0.0	0.0	21	0520	0.5	0.2	6	0003	2.9	0.9	21	0651	0.4	0.1	
M	1110	3.0	0.9	Tu	1023	3.3	1.0	Th	0701	0.3	0.1	F	1150	3.1	0.9	
	1828	-0.2	-0.1		1751	0.2	0.1		1225	2.7	0.8		1857	0.2	0.1	
	2357	2.8	0.9		2254	3.2	1.0		1908	0.1	0.0					
7	0644	0.1	0.0	22	0611	0.5	0.2	7	0053	2.8	0.9	22	0013	3.4	1.0	
Tu	1205	2.8	0.9	W	1113	3.2	1.0	F	0752	0.4	0.1	Sa	0753	0.4	0.1	
	1912	-0.1	0.0		1833	0.2	0.1		1319	2.6	0.8		1250	2.9	0.9	
					2342	3.2	1.0		1950	0.2	0.1		1951	0.2	0.1	
8	0049	2.7	0.8	23	0706	0.5	0.2	8	0143	2.8	0.9	23	0114	3.2	1.0	
W	0738	0.2	0.1	Th	1208	3.1	0.9	Sa	0847	0.5	0.2	Su	0858	0.4	0.1	
	1303	2.7	0.8		1918	0.2	0.1		1418	2.5	0.8		1357	2.8	0.9	
	1954	0.0	0.0						2035	0.3	0.1		2054	0.2	0.1	
9	0145	2.7	0.8	24	0037	3.2	1.0	9	0237	2.8	0.9	24	0220	3.1	0.9	
Th	0831	0.3	0.1	F	0805	0.4	0.1	Su	0943	0.5	0.2	M	1005	0.3	0.1	
	1403	2.6	0.8		1304	2.9	0.9		1517	2.5	0.8		1509	2.7	0.8	
	2040	0.1	0.0		2010	0.2	0.1		2124	0.4	0.1		2200	0.2	0.1	
10	0238	2.8	0.9	25	0135	3.2	1.0	10	0333	2.9	0.9	25	0330	3.1	0.9	
F	0928	0.3	0.1	Sa	0911	0.4	0.1	M	1042	0.5	0.2	Tu	1109	0.2	0.1	
	1502	2.5	0.8		1411	2.8	0.9		1615	2.5	0.8		1618	2.6	0.8	
	2126	0.2	0.1		2108	0.2	0.1		2220	0.5	0.2		2306	0.2	0.1	
11	0330	2.8	0.9	26	0237	3.2	1.0	11	0423	3.0	0.9	26	0436	3.1	0.9	
Sa	1024	0.4	0.1	Su	1019	0.3	0.1	Tu	1137	0.5	0.2	W	1209	0.1	0.0	
	1558	2.5	0.8		1520	2.7	0.8		1708	2.6	0.8		1721	2.7	0.8	
	2215	0.2	0.1		2210	0.1	0.0		2316	0.5	0.2					
12	0420	2.9	0.9	27	0343	3.2	1.0	12	0511	3.1	0.9	27	0009	0.1	0.0	
Su	1121	0.4	0.1	M	1124	0.2	0.1	W	1228	0.5	0.2	Th	0538	3.1	0.9	
	1651	2.5	0.8		1626	2.7	0.8		1753	2.7	0.8		1303	0.0	0.0	
	2303	0.3	0.1		2316	0.1	0.0		1836	2.8	0.9		1816	2.8	0.9	
13	0503	3.0	0.9	28	0445	3.3	1.0	13	0012	0.5	0.2	28	0106	0.0	0.0	
M	1213	0.4	0.1	Tu	1225	0.0	0.0	Th	0554	3.2	1.0	F	0632	3.2	1.0	
	1740	2.6	0.8		1729	2.7	0.8		1315	0.4	0.1		1352	-0.1	0.0	
	2353	0.4	0.1						1836	2.8	0.9		1905	2.9	0.9	
14	0546	3.1	0.9	29	0018	0.0	0.0	14	0103	0.5	0.2	29	0159	0.0	0.0	
Tu	1302	0.3	0.1	W	0545	3.3	1.0	F	0634	3.3	1.0	Sa	0721	3.2	1.0	
	1827	2.6	0.8		1320	-0.1	0.0		1358	0.4	0.1		1438	-0.1	0.0	
					1825	2.8	0.9		1912	2.9	0.9		1952	2.9	0.9	
15	0041	0.4	0.1	30	0116	0.0	0.0	15	0153	0.5	0.2	30	0248	0.0	0.0	
W	0625	3.2	1.0	Th	0641	3.3	1.0	Sa	0714	3.4	1.0	Su	0807	3.2	1.0	
	1350	0.3	0.1		1413	-0.2	-0.1		1440	0.3	0.1		1520	-0.1	0.0	
	1909	2.7	0.8		1921	2.8	0.9		1948	3.1	0.9		2035	3.0	0.9	
				31	0211	-0.1	0.0					31	0335	0.0	0.0	
					F	0732	3.3	1.0					M	0852	-0.1	0.9
						1501	-0.3	-0.1						1559	-0.1	0.0
						2009	2.9	0.9						2117	3.0	0.9

Time meridian 75° W. 0000 is midnight. 1200 is noon.
 Heights are referred to mean low water which is the chart datum of soundings.

TABLE 2. - TIDAL DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Lat.	Long.	Time		Height		Mean Spring		
				High Water	Low Water	High Water	Low Water	ft	ft	
	Chesapeake Bay, Western Shore Time meridian, 75°W	°	'	h. m.	h. m.	ft	ft	ft	ft	ft
	MD., VA. and DISTRICT OF COLUMBIA Potomac River	N	W							
				on WASHINGTON, p.84						
2170	Cornfield Harbor, Md-----	38 04	76 22	-6 44	-7 35	*0.45	*0.45	1.3	1.5	0.7
2171	Lewisetta, Va-----	38 00	76 28	-6 37	-7 25	*0.45	*0.45	1.3	1.5	0.6
2172	Travis Point, Coan River, Va----- Yeocomico River	38 00	76 28	-6 33	-7 05	*0.41	*0.41	1.2	1.4	Q.6
2173	Lynch Point, Va-----	38 03	76 31	-6 24	-6 58	*0.45	*0.45	1.3	1.5	0.6
2175	Kinsale, Va----- St. Marys River	38 02	76 35	-6 19	-6 53	*0.41	*0.41	1.2	1.4	D.6
2177	Kitts Point, Md-----	38 06	76 25	-6 51	-7 23	*0.52	*0.52	1.5	1.7	0.7
2179	St. Marys City, Md-----	38 11	76 26	-6 36	-7 08	*0.52	*0.52	1.5	1.7	0.7
2181	Piney Point, Md-----	38 08	76 32	-6 27	-7 16	*0.48	*0.48	1.4	1.6	0.7
2182	Ragged Point, Coles Neck, Va-----	38 08	76 37	-6 08	-7 03	*0.52	*0.52	1.5	1.7	0.8
2183	Coles Point, Va-----	38 09	76 38	-6 10	-6 55	*0.62	*0.62	1.8	2.0	0.9
2185	Leonardtwn, Bretton Bay, Md-----	38 17	76 38	-6 05	-6 39	*0.59	*0.59	1.7	2.0	0.8
2187	Shipping Pt., St. Clements Bay, Md-----	38 16	76 42	-6 00	-6 34	*0.62	*0.62	1.8	2.1	0.9
2188	Mount Holly, Nomini Creek, Va-----	38 06	76 44	-5 24	-5 54	*0.52	*0.52	1.5	1.7	D.7
2189	Colton's Point, Md----- Wicomico River	38 13	76 45	-5 46	-6 44	*0.62	*0.62	1.8	2.0	0.9
2191	Cobb Point Bar Light, Md-----	38 15	76 50	-5 56	-6 28	-1.0	0.0	1.9	2.2	0.9
2193	Rock Point, Md-----	38 16	76 50	-5 51	-6 23	-1.0	0.0	1.9	2.2	0.9
2195	Bushwood Wharf, Md-----	38 17	76 48	-5 51	-6 23	-1.0	0.0	1.9	2.2	0.9
2196	Wicomico Beach, Md-----	38 20	76 52	-5 38	-6 05	-1.1	0.0	1.8	2.0	0.9
2197	Colonial Beach, Va-----	38 15	76 58	-5 26	-6 10	*0.59	*0.59	1.7	1.9	0.9
2199	Dahlgren, Upper Machodoc Creek, Va-----	38 19	77 02	-5 15	-5 51	*0.55	*0.55	1.6	1.8	0.8
2201	Lower Cedar Point, Md-----	38 20	76 59	-5 20	-5 56	*0.52	*0.52	1.5	1.7	0.7
2203	Mathias Point, Va-----	38 24	77 03	-4 32	-4 56	*0.41	*0.41	1.2	1.4	0.6
2205	Goose Bay, Port Tobacco River, Md-----	38 27	77 03	-4 35	-5 07	*0.52	*0.52	1.5	1.7	0.7
2207	Upper Cedar Point Light, Md-----	38 24	77 05	-4 23	-4 53	*0.41	*0.41	1.2	1.4	0.6
2209	Riverside, Md-----	38 23	77 09	-3 50	-4 25	*0.45	*0.45	1.3	1.5	0.6
2211	Maryland Point Light, Md-----	38 21	77 12	-3 27	-3 44	*0.38	*0.38	1.1	1.3	0.6
2213	Aquia Creek, Va-----	38 25	77 21	-2 01	-2 32	*0.45	*0.45	1.3	1.5	0.6
2215	Clifton Beach, Md-----	38 25	77 16	-2 15	-2 46	*0.38	*0.38	1.1	1.3	0.5
2217	Liverpool Point, Md-----	38 28	77 16	-2 22	-2 39	*0.45	*0.45	1.3	1.5	0.6
2219	Quantico Creek, Va-----	38 31	77 17	-1 19	-2 05	*0.48	*0.48	1.4	1.6	0.7
2221	Deep Point, Mattawoman Creek, Md-----	38 34	77 13	-1 27	-1 44	*0.55	*0.55	1.6	1.8	D.8
2223	High Point, Occoquan Bay, Va-----	38 37	77 12	-1 17	-1 34	*0.55	*0.55	1.5	1.8	0.8
2225	Indian Head, Md-----	38 36	77 11	-0 41	-1 34	*0.62	*0.62	1.8	2.0	0.9
2227	Glymont, Md-----	38 37	77 08	-1 02	-1 19	*0.62	*0.62	1.8	2.1	0.9
2229	Gunston Cove, Va-----	38 40	77 08	-0 43	-1 00	-0.9	0.0	2.0	2.3	1.0
2231	Marshall Hall, Md-----	38 41	77 06	-0 17	-0 56	-0.6	0.0	2.3	2.6	1.1
2233	Mount Vernon, Va-----	38 42	77 05	-0 32	-0 48	-0.7	0.0	2.2	2.5	1.1
2235	Fort Washington, Md-----	38 43	77 02	-0 22	-0 38	-0.5	0.0	2.4	2.8	1.2
2237	Riverview, Md-----	38 43	77 02	-0 22	-0 38	-0.4	0.0	2.5	2.9	1.2
2239	Alexandria, Va-----	38 48	77 02	-0 07	-0 23	-0.1	0.0	2.8	3.2	1.4
2241	Bellevue, D. C-----	38 50	77 02	+0 01	-0 10	-0.1	0.0	2.8	3.2	1.4
2243	Washington National Airport-----	38 51	77 02	+0 01	-0 08	0.0	0.0	2.9	3.3	1.5
2245	WASHINGTON, Washington Chan., D. C----- Anacostia River	38 52	77 01	Daily predictions				2.9	3.3	1.4
2247	Anacostia Bridge, D. C-----	38 52	77 00	+0 10	0 00	0.0	0.0	2.9	3.3	1.5
2249	Benning Bridge, D. C-----	38 54	76 58	+0 16	+0 04	0.0	0.0	2.9	3.3	1.5
2251	Key Bridge, D. C-----	38 54	77 04	+0 10	0 00	-0.1	0.0	2.8	3.2	1.4
2253	Chain Bridge, one mile below, D. C-----	38 55	77 06	+0 15	+0 05	-0.1	0.0	2.8	3.2	1.4
2255	Chain Bridge, D. C-----	38 56	77 07	+0 20	+0 10	-0.1	0.0	2.8	3.2	1.4

APPENDIX B-2.- Predicted tidal currents

CHESAPEAKE BAY ENTRANCE, VA., 1980
F-FLOOD, DIR. 305° TRUE E-EBB, DIR. 125° TRUE

NOVEMBER							DECEMBER									
DAY	SLACK WATER			MAXIMUM CURRENT			DAY	SLACK WATER			MAXIMUM CURRENT					
	TIME	TIME	VEL.	TIME	TIME	VEL.		TIME	TIME	VEL.	TIME	TIME	VEL.			
	H.M.	H.M.	KNOTS	DAY	H.M.	H.M.	KNOTS	DAY	H.M.	H.M.	KNOTS	DAY	H.M.	H.M.	KNOTS	
1	0142	0356	0.5F	16	0031	0245	0.6F	1	0152	0415	0.5F	16	0058	0329	0.9F	
SA	0622	1021	1.2E	SU	0507	0914	1.3E	M	0653	1042	1.1E	TU	0616	1001	1.4E	
	1345	1630	0.8F		1239	1520	0.9F		1405	1638	0.6F		1321	1555	0.9F	
	1932	2305	1.2E		1819	2205	1.3E		1924	2309	1.2E		1842	2232	1.5E	
2	0236	0501	0.5F	17	0128	0351	0.8F	2	0239	0510	0.6F	17	0156	0435	1.0F	
SU	0733	1120	1.3E	M	0629	1023	1.4E	TU	0756	1137	1.2E	W	0734	1109	1.4E	
	1444	1727	0.8F		1344	1624	1.0F		1459	1726	0.6F		1426	1657	0.9F	
	2020	2352	1.3E		1918	2301	1.5E		2008	2356	1.3E		1939	2330	1.7E	
3	0320	0553	0.7F	18	0222	0457	1.0F	3	0321	0559	0.7F	18	0251	0537	1.2F	
M	0832	1211	1.3E	TU	0746	1129	1.5E	W	0851	1224	1.2E	TH	0844	1212	1.5E	
	1535	1812	0.8F		1446	1723	1.1F		1547	1809	0.6F		1528	1756	1.0F	
	2102				2013	2355	1.7E		2047				2034			
4	0359	0634	1.3E	19	0313	0556	1.2F	4	0359	0637	1.3E	19		0024	1.8E	
TU	0922	1257	1.4E	W	0854	1225	1.7E	TH	0938	1309	1.3E	F	0344	0638	1.4F	
	1620	1851	0.8F		1543	1818	1.1F		1631	1850	0.6F		0947	1309	1.6E	
	2137				2105				2123				1625	1851	1.0F	
5	0433	0711	1.4E	20	0402	0651	1.4F	5	0435	0719	1.4E	20	0435	0732	1.5F	
W	1005	1338	1.4E	TH	0955	1320	1.8E	F	1020	1350	1.3E	SA	1044	1401	1.7E	
	1700	1926	0.8F		1637	1910	1.2F		1711	1928	0.7F		1719	1943	1.0F	
	2209				2153				2156				2216			
6	0506	0746	1.4E	21	0451	0745	2.0E	6	0510	0755	1.4E	21		0204	2.0E	
TH	1043	1416	1.4E	F	1051	1413	1.6F	SA	1100	1427	1.3E	SU	0524	0821	1.6F	
	1737	1958	0.8F		1730	2000	1.2F		1749	2003	0.7F		1137	1452	1.7E	
	2237				2240				2227				1809	2032	1.0F	
7	0538	0821	1.4E	22	0539	0833	2.0E	7	0545	0831	1.5E	22		0253	2.0E	
F	1119	1451	1.0F	SA	1145	1504	1.7F	SU	1138	1508	1.1F	M	0613	0910	1.6F	
	1813	2033	0.7F		1821	2048	1.1F		1827	2036	1.3E		1226	1541	1.7E	
	2304				2325				2259				1859	2120	0.9F	
8	0611	0853	1.4E	23	0627	0923	2.0E	8	0620	0906	1.5E	23		0342	1.9E	
SA	1154	1527	1.4E	SU	1237	1555	1.7F	M	1215	1543	1.2F	TU	0701	0956	1.5F	
	1849	2103	0.7F		1913	2137	1.8E		1905	2115	1.3E		1312	1630	1.6E	
	2330								2332				1947	2206	0.9F	
9	0644	0928	1.4E	24	0716	1014	2.0E	9	0657	0945	1.5E	24	0036	0430	1.8E	
SU	1229	1602	1.1F	M	1327	1647	1.6F	TU	1253	1621	1.2F	W	0749	1042	1.4F	
	1926	2138	1.3E		2005	2225	1.7E		1944	2152	0.7F		1356	1716	1.5E	
	2358												2035	2253	0.8F	
10	0719	1004	1.4E	25	0807	1100	2.0E	10	0737	1026	1.5E	25	0121	0516	1.6E	
M	1307	1640	1.1F	TU	1417	1738	1.5F	W	1333	1703	1.2F	TH	0838	1128	1.2F	
	2006	2213	0.6F		2059	2316	0.8F		2025	2235	1.3E		1439	1802	1.4E	
													2125	2341	0.7F	
11	0029	0431	1.4E	26	0142	0538	1.7E	11	0050	0452	1.5E	26	0208	0607	1.5E	
TU	0758	1044	1.1F	W	0900	1151	1.3F	TH	0822	1109	1.2F	F	0928	1211	1.0F	
	1346	1719	1.2E		1508	1831	1.4E		1416	1746	1.3E		1520	1851	1.3E	
	2048	2254	0.6F		2156				2111	2322	0.7F		2216			
12	0105	0509	1.3E	27	0232	0636	0.6F	12	0138	0539	1.5E	27		0029	0.6F	
W	0842	1131	1.1F	TH	0957	1245	1.5E	F	0911	1200	1.1F	SA	0258	0658	1.3E	
	1431	1804	1.1E		1559	1930	1.1F		1502	1837	1.2E		1021	1258	0.9F	
	2137	2341	0.5F		2257				2203				1602	1943	1.2E	
													2309			
13	0148	0554	1.3E	28	0327	0733	0.5F	13	0234	0636	0.7F	28		0121	0.6F	
TH	0932	1217	1.0F	F	1057	1341	1.3E	SA	1006	1249	1.4E	SU	0352	0754	1.2E	
	1520	1858	1.1E		1651	2028	0.9F		1552	1930	1.1F		1117	1349	0.7F	
	2231				2359				2259				1644	2034	1.1E	
14	0242	0653	0.5F	29	0432	0836	0.5F	14	0340	0740	0.7F	29	0005	0216	0.5F	
F	1029	1314	1.3E	SA	1201	1442	1.2E	SU	1108	1349	1.3E	M	0454	0853	1.1E	
	1616	1959	1.0F		1744	2125	0.8F		1646	2032	1.0F		1217	1444	0.6F	
	2330								2358				1729	2127	1.1E	
15	0137	0501	0.5F	30	0058	0311	0.5F	15	0220	0501	0.8F	30	0059	0318	0.5F	
SA	0348	0802	1.2E	SU	0543	0942	1.1E	M	0456	0851	1.3E	TU	0601	0957	1.0E	
	1133	1417	0.9F		1305	1541	0.7F		1214	1452	0.9F		1318	1538	0.5F	
	1717	2103	1.2E		1836	2218	1.2E		1743	2131	1.4E		1817	2220	1.2E	
													31	0151	0419	0.6F
													W	0709	1052	1.0E
														1417	1634	0.5F
														1905	2310	1.2E

TIME MERIDIAN 75° W. 0000 IS MIDNIGHT. 1200 IS NOON.

CHESAPEAKE BAY ENTRANCE, VIRGINIA, 1981

F-Flood, Dir. 305° True E-Ebb, Dir. 125° True

JANUARY						FEBRUARY									
Day	Slack	Maximum		Day	Slack	Maximum		Day	Slack	Maximum		Day	Slack	Maximum	
	Water	Time	Current		Time	Current	Time		Current	Water	Time		Current	Time	Current
	Time	Time	Vel.		Time	Time	Vel.		Time	Time	Vel.		Time	Time	Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots		h.m.	h.m.	knots		h.m.	h.m.	knots
1	0240	0515	0.7F	16	0233	0524	1.2F	1	0006	1.3E	16	0051	1.7E		
Th	0813	1150	1.1E	F	0836	1200	1.4E	Su	0330	0015	0.9F	M	0414	0713	1.2F
	1514	1727	0.5F		1519	1739	0.7F		0925	1254	1.1E		1026	1340	1.4E
	1953	2359	1.3E		2009				1617	1821	0.5F		1701	1923	0.7F
									2040				2151		
2	0323	0606	0.8F	17		0006	1.7E	2		0051	1.4E	17		01'2	1.7E
F	0907	1237	1.1E	Sa	0330	0625	1.3F	M	0414	0702	1.0F	Tu	0505	0801	1.3F
	1602	1812	0.5F		0941	1300	1.4E		1014	1339	1.2E		1112	1427	1.5E
	2036				1618	1838	0.8F		1658	1909	0.6F		1744	2008	0.8F
					2106				2129				2241		
3		0041	1.4E	18		0103	1.8E	3		0136	1.6E	18		0230	1.7E
Sa	0404	0647	0.9F	Su	0424	0722	1.4F	Tu	0456	0745	1.2F	W	0551	0844	1.2F
	0956	1326	1.2E		1038	1353	1.5E		1057	1420	1.4E		1151	1507	1.5E
	1646	1854	0.6F		1711	1931	0.8F		1737	1952	0.7F		1824	2049	0.9F
	2116				2159				2217				2326		
4		0122	1.4E	19		0152	1.8E	4		0217	1.7E	19		0312	1.7E
Su	0442	0729	1.1F	M	0514	0813	1.4F	W	0538	0827	1.3F	Th	0634	0922	1.2F
	1040	1405	1.3E		1128	1442	1.5E		1138	1500	1.4E		1226	1546	1.5E
	1726	1936	0.6F		1800	2019	0.8F		1815	2036	0.9F		1900	2128	0.9F
	2155				2249				2304						
5		0200	1.5E	20		0241	1.9E	5		0258	1.8E	20		0354	1.7E
M	0520	0811	1.2F	Tu	0602	0858	1.4F	Th	0620	0909	1.4F	F	0714	0956	1.1F
	1121	1445	1.3E		1213	1527	1.5E		1217	1541	1.5E		1257	1622	1.4E
	1805	2016	0.7F		1845	2106	0.8F		1854	2119	1.0F		1936	2203	0.9F
	2234				2336				2351						
6		0237	1.6E	21		0327	1.8E	6		0341	1.8E	21		0430	1.6E
Tu	0558	0850	1.3F	W	0648	0941	1.4F	F	0704	0953	1.4F	Sa	0753	1029	1.0F
	1201	1524	1.3E		1254	1610	1.5E		1256	1619	1.6E		1325	1656	1.4E
	1843	2055	0.7F		1927	2149	0.8F		1935	2203	1.1F		2012	2243	0.9F
	2314														
7		0316	1.6E	22		0410	1.7E	7		0427	1.8E	22		0509	1.5E
W	0638	0930	1.3F	Th	0733	1022	1.3F	Sa	0750	1035	1.4F	Su	0833	1103	0.9F
	1240	1602	1.4E		1331	1651	1.4E		1336	1702	1.6E		1352	1731	1.3E
	1921	2136	0.8F		2009	2230	0.8F		2019	2251	1.1F		2050	2318	0.8F
	2357														
8		0355	1.7E	23		0456	1.6E	8		0515	1.8E	23		0547	1.3E
Th	0720	1010	1.3F	F	0817	1100	1.1F	Su	0839	1120	1.3F	M	0914	1138	0.8F
	1319	1643	1.4E		1406	1732	1.4E		1417	1749	1.6E		1421	1807	1.2E
	2002	2219	0.8F		2050	2310	0.8F		2108	2341	1.1F		2131		
9		0438	1.7E	24		0538	1.5E	9		0608	1.7E	24		0000	0.8F
F	0805	1055	1.3F	Sa	0901	1139	1.0F	M	0932	1211	1.2F	Tu	0243	0631	1.2E
	1400	1726	1.4E		1439	1813	1.3E		1501	1839	1.6E		0958	1219	0.7F
	2047	2307	0.9F		2134	2355	0.7F		2201				1451	1848	1.2E
													2216		
10		0527	1.6E	25		0623	1.3E	10		0039	1.1F	25		0043	0.7F
Sa	0855	1140	1.3F	Su	0947	1219	0.8F	Tu	0329	0708	1.5E	W	0328	0718	1.1E
	1443	1813	1.4E		1512	1856	1.2E		1031	1304	1.0F		1049	1302	0.5F
	2135	2358	0.9F		2220				1547	1933	1.5E		1525	1933	1.1E
									2300				2307		
11		0623	1.5E	26		0040	0.7F	11		0140	1.1F	26		0134	0.7F
Su	0948	1231	1.2F	M	0316	0711	1.2E	W	0438	0815	1.4E	Th	0422	0817	1.0E
	1529	1904	1.4E		1037	1301	0.7F		1137	1401	0.8F		1148	1352	0.4F
	2229				1547	1940	1.1E		1639	2038	1.5E		1605	2027	1.1E
					2310										
12		0055	0.9F	27		0130	0.6F	12		0247	1.0F	27		0233	0.6F
M	0334	0724	1.4E	Tu	0408	0806	1.1E	Th	0554	0927	1.3E	F	0526	0922	0.9E
	1048	1327	1.0F		1132	1349	0.6F		1250	1507	0.7F		1253	1447	0.4F
	1618	2002	1.4E		1625	2033	1.1E		1738	2144	1.5E		1655	2128	1.1E
	2328														
13		0200	0.9F	28		0225	0.6F	13		0400	1.0F	28		0103	0.37F
Tu	0445	0831	1.4E	W	0509	0907	1.0E	F	0714	1039	1.2E	Sa	0638	1031	0.9E
	1154	1426	0.9F		1232	1444	0.5F		1404	1616	0.6F		1358	1552	0.3F
	1712	2103	1.5E		1709	2127	1.1E		1843	2251	1.5E		1756	2231	1.1E
14		0306	1.0F	29		0324	0.6F	14		0511	1.1F				
W	0604	0943	1.3E	Th	0617	1010	0.9E	Sa	0828	1150	1.3E				
	1303	1531	0.8F		1335	1540	0.4F		1512	1726	0.6F				
	1809	2207	1.5E		1758	2222	1.1E		1950	2353	1.6E				
15		0416	1.0F	30		0423	0.6F	15		0618	1.2F				
Th	0723	1055	1.3E	F	0726	1110	1.0E	Su	0931	1247	1.4E				
	1413	1636	0.8F		1436	1639	0.4F		1611	1828	0.7F				
	1909	2308	1.6E		1852	2317	1.2E		2054						
				31		0243	0.8F								
				Sa	0830	1205	1.0E								
					1530	1732	0.4F								
					1947										

Time meridian 75° W. 0000 is midnight. 1200 is noon.

CHESAPEAKE BAY ENTRANCE, VIRGINIA, 1981

F-Flood, Dir. 305° True E-Ebb, Dir. 125° True

MARCH									APRIL											
Day	Slack Water			Maximum Current			Day	Slack Water			Maximum Current			Day	Slack Water			Maximum Current		
	Time	Time	Vel.	Time	Time	Vel.		Time	Time	Vel.	Time	Time	Vel.		Time	Time	Vel.	Time	Time	Vel.
	h.m.	h.m.	knots	h.m.	h.m.	knots		h.m.	h.m.	knots	h.m.	h.m.	knots		h.m.	h.m.	knots	h.m.	h.m.	knots
1 Su	0201 0748 1455 1904	0440 1130 1655 2328	0.7F 1.0E 0.4F 1.2E	16 M	0306 0913 1558 2046	0606 1231 1821 0.6F	1.0F 1.3E 0.6F	1 W	0312 0901 1550 2050	0556 1233 1814 0.8F	1.0F 1.4E 0.8F	16 Th	0432 1007 1653 2216	0107 0718 1334 1931	1.5E 0.9F 1.4E 0.9F					
2 M	0255 0849 1543 2009	0539 1221 1752	0.9F 1.1E 0.5F	17 Tu	0403 1003 1643 2143	0038 0657 1320 1910	1.5E 1.1F 1.4E 0.7F	2 Th	0403 0948 1632 2149	0043 0647 1319 1907	1.6E 1.2F 1.5E 1.1F	17 F	0515 1040 1727 2257	0152 0751 1411 2004	1.5E 0.9F 1.4E 0.9F					
3 Tu	0344 0940 1625 2108	0021 0630 1307 1843	1.4E 1.0F 1.3E 0.7F	18 W	0452 1045 1722 2232	0129 0742 1405 1952	1.6E 1.1F 1.4E 0.8F	3 F	0452 1032 1714 2244	0134 0736 1400 1954	1.8E 1.3F 1.7E 1.3F	18 Sa	0554 1108 1759 2334	0231 0826 1444 2039	1.5E 0.9F 1.4E 1.0F					
4 W	0430 1026 1705 2202	0110 0719 1351 1929	1.6E 1.2F 1.4E 0.9F	19 Th	0536 1120 1757 2314	0214 0821 1440 2031	1.6E 1.1F 1.5E 0.9F	4 Sa	0540 1115 1757 2337	0221 0821 1443 2042	1.9E 1.4F 1.9E 1.5F	19 Su	0630 1134 1831	0308 0855 1516 2111	1.5E 0.8F 1.4E 1.0F					
5 Th	0516 1108 1745 2254	0155 0802 1433 2014	1.8E 1.3F 1.6E 1.1F	20 F	0616 1150 1830 2352	0252 0856 1515 2106	1.6E 1.0F 1.5E 1.0F	5 Su	0628 1156 1842	0309 0908 1527 2130	2.0E 1.4F 1.9E 1.6F	20 M	0705 1223 1903	0343 0924 1545 2144	1.4E 0.8F 1.4E 1.0F					
6 F	0601 1148 1825 2345	0241 0848 1512 2101	1.9E 1.4F 1.7E 1.2F	21 Sa	0653 1217 1903	0331 0927 1549 2137	1.6E 1.0F 1.4E 1.0F	6 M	0718 1238 1929	0357 0952 1614 2217	2.0E 1.3F 2.0E 1.6F	21 Tu	0741 1223 1937	0418 0956 1617 2219	1.3E 0.7F 1.4E 1.0F					
7 Sa	0646 1228 1908	0325 0931 1555 2148	1.9E 1.5F 1.8E 1.4F	22 Su	0729 1242 1936	0406 0958 1619 2211	1.5E 0.9F 1.4E 1.0F	7 Tu	0809 1320 2019	0449 1039 1700 2310	1.9E 1.2F 1.9E 1.5F	22 W	0820 1250 2014	0454 1029 1648 2256	1.3E 0.6F 1.3E 1.0F					
8 Su	0734 1308 1953	0414 1014 1637 2234	1.9E 1.4F 1.8E 1.4F	23 M	0806 1307 2011	0442 1028 1653 2246	1.4E 0.8F 1.3E 1.0F	8 W	0905 1405 2114	0544 1128 1751	1.7E 1.0F 1.8E	23 Th	0901 1320 2055	0531 1106 1723 2338	1.2E 0.6F 1.3E 0.9F					
9 M	0824 1349 2042	0502 1059 1722 2325	1.9E 1.3F 1.8E 1.4F	24 Tu	0844 1333 2049	0519 1103 1725 2323	1.3E 0.7F 1.3E 0.9F	9 Th	0317 1006 1453 2214	0004 0642 1223 1849	1.4F 1.5E 0.8F 1.6E	24 F	0948 1355 2142	0615 1151 1804	1.1E 0.5F 1.2E					
10 Tu	0918 1432 2136	0557 1148 1813	1.7E 1.1F 1.7E	25 W	0927 1402 2131	0600 1139 1803	1.2E 0.6F 1.2E	10 F	0420 1114 1548 2320	0104 0749 1326 1953	1.2F 1.4E 0.6F 1.5E	25 Sa	0324 1042 1439 2236	0027 0706 1236 1901	0.9F 1.0E 0.4F 1.1E					
11 W	1018 1519 2235	0021 0655 1242 1911	1.3F 1.5E 0.9F 1.6E	26 Th	0258 1015 1435 2219	0004 0643 1222 1843	0.8F 1.1E 0.5F 1.1E	11 Sa	0529 1228 1654	0212 0858 1435 2104	1.1F 1.2E 0.5F 1.4E	26 Su	0418 1141 1535 2336	0118 0805 1333 2002	0.8F 1.0E 0.4F 1.1E					
12 Th	1125 1611 2341	0121 0802 1343 2012	1.2F 1.4E 0.7F 1.5E	27 F	0348 1112 1514 2315	0053 0734 1311 1934	0.8F 1.0E 0.4F 1.1E	12 Su	0031 0640 1340 1811	0324 1006 1550 2217	1.0F 1.2E 0.5F 1.3E	27 M	0520 1241 1645	0219 0906 1439 2108	0.8F 1.0E 0.4F 1.2E					
13 F	1240 1713	0228 0915 1449 2124	1.1F 1.2E 0.6F 1.4E	28 Sa	0447 1215 1606	0149 0839 1408 2039	0.7F 0.9E 0.3F 1.1E	13 M	0745 1443 1928	0436 1109 1701 2322	0.9F 1.2E 0.5F 1.4E	28 Tu	0623 1337 1805	0320 1010 1548 2220	0.8F 1.1E 0.5F 1.3E					
14 Sa	1356 1825	0343 1026 1605 2236	1.0F 1.2E 0.5F 1.4E	29 Su	0016 0555 1320 1713	0252 0945 1511 2150	0.7F 0.9E 0.4F 1.1E	14 Tu	0247 0841 1534 2034	0539 1206 1759	0.9F 1.3E 0.6F	29 W	0723 1427 1923	0424 1105 1647 2321	0.9F 1.3E 0.7F 1.4E					
15 Su	1503 1940	0458 1133 1716 2339	1.0F 1.2E 0.5F 1.5E	30 M	0119 0705 1417 1830	0359 1051 1619 2254	0.8F 1.0E 0.4F 1.2E	15 W	0344 0928 1616 2130	0018 0630 1251 1850	1.4E 0.9F 1.4E 0.8F	30 Th	0818 1515 2033	0521 1156 1748	1.0F 1.5E 1.0F					
				31 Tu	0218 0807 1506 1944	0458 1145 1721 2350	0.9F 1.2E 0.6F 1.4E													

Time meridian 75° W. 0000 is midnight. 1200 is noon.

CHESAPEAKE BAY ENTRANCE, VIRGINIA, 1981

F-Flood, Dir. 305° True E-Ebb, Dir. 125° True

MAY				JUNE											
Slack Water Time	Maximum Current Time	Current Vel.	Day	Slack Water Time	Maximum Current Time	Current Vel.	Day	Slack Water Time	Maximum Current Time	Current Vel.	Day	Slack Water Time	Maximum Current Time	Current Vel.	Day
h.m.	h.m.	knots	h.m.												
1	0336	0017	1.6E	16	0125	1.4E	1	0146	1.7E	16	0217	1.3E			
F	0908	0616	1.1F	Sa	0449	0.7F	M	0503	0.732	Tu	0541	0.6F			
	1601	1244	1.7E		0954	1.335		1009	1.355		1012	1.414			
	2135	1841	1.2F		1655	0.9F		1712	2.008		1734	2.021			
					2236			2319	1.6F		2330	1.1F			
2	0429	0110	1.8E	17	0206	1.4E	2	0240	1.8E	17	0258	1.3E			
Sa	0955	0707	1.2F	Su	0528	0.7F	Tu	0556	0.821	W	0620	0.826			
	1646	1331	1.8E		1023	1.4E		1057	1.443		1044	1.448			
	2233	1933	1.4F		1728	1.0F		1802	2.058		1810	2.058			
					2314										
3	0520	0202	1.9E	18	0244	1.4E	3	0013	0.331	18	0008	0.335			
Su	1040	0755	1.3F	M	0606	0.7F	W	0649	0.912	Th	0657	0.903			
	1732	1417	2.0E		1051	1.4E		1144	1.532		1117	1.523			
	2328	2024	1.6F		1801	1.0F		1852	2.149		1847	2.134			
					2350										
4	0611	0253	1.9E	19	0319	1.3E	4	0106	0.424	19	0045	0.411			
M	1125	0843	1.3F	Tu	0643	0.7F	Th	0742	1.003	F	0735	0.942			
	1820	1503	2.0E		1118	1.4E		1232	1.624		1152	1.601			
		2113	1.7F		1835	1.1F		1944	2.240		1925	2.215			
5	0702	0345	1.9E	20	0025	1.3E	5	0158	0.515	20	0122	0.452			
Tu	1209	0932	1.2F	W	0720	0.6F	F	0837	1.054	Sa	0814	1.019			
	1909	1550	2.0E		1146	1.4E		1322	1.716		1232	1.638			
		2204	1.7F		1910	1.1F		2038	2.331		2007	2.256			
6	0756	0437	1.8E	21	0101	1.2E	6	0250	0.613	21	0202	0.533			
W	1254	1020	1.1F	Th	0758	0.6F	Sa	0933	1.148	Su	0856	1.106			
	2000	1641	1.9E		1216	1.4E		1414	1.813		1317	1.725			
		2256	1.6F		1947	1.1F		2134	1.6E		2052	2.342			
7	0852	0532	1.7E	22	0138	1.2E	7	0342	0.026	22	0243	0.616			
Th	1341	1113	0.9F	F	0839	0.5F	Su	1032	0.708	M	0942	1.151			
	2055	1735	1.8E		1250	1.3E		1511	1.245		1409	1.810			
		2351	1.4F		2028	1.0F		2234	1.911		2143	1.4E			
8	0952	0629	1.5E	23	0219	1.1E	8	0433	0.122	23	0328	0.027			
F	1432	1207	0.7F	Sa	0924	0.5F	M	1132	0.803	Tu	1032	0.704			
	2154	1832	1.6E		1330	1.3E		1614	1.345		1509	1.248			
					2114			2336	2.012		2239	1.911			
9	1058	0048	1.3F	24	0000	1.0F	9	0525	0.219	24	0417	0.120			
Sa	1530	0730	1.4E	Su	0304	1.1E	Tu	1232	0.900	W	1126	0.801			
	2258	1308	0.6F		1013	0.5F		1722	1.449		1618	1.346			
		1935	1.5E		1418	1.3E			2.116		2340	2.013			
					2206				1.2E						
10	0507	0149	1.1F	25	0049	1.0F	10	0040	0.318	25	0509	0.219			
Su	1206	0834	1.3E	M	0354	1.1E	W	0615	0.958	Th	1223	0.856			
	1637	1414	0.5F		1106	0.5F		1327	1.554		1734	1.451			
		2043	1.3E		1518	1.2E		1832	2.217			2.122			
					2304				1.2E						
11	0608	0254	0.9F	26	0147	0.9F	11	0142	0.416	26	0044	0.317			
M	1312	0939	1.2E	Tu	0448	1.1E	Th	0703	1.045	F	0603	0.954			
	1752	1526	0.5F		1202	0.6F		1418	1.651		1320	1.557			
		2150	1.3E		1629	1.2E		1937	2.316		1851	2.229			
12	0706	0401	0.8F	27	0007	0.9F	12	0240	0.509	27	0149	0.420			
Tu	1410	1038	1.2E	W	0545	1.2E	F	0747	1.136	Sa	0700	1.052			
	1906	1633	0.6F		1258	0.7F		1503	1.743		1416	1.700			
		2254	1.3E		1748	1.3E		2035	0.7F		2005	2.335			
13	0757	0502	0.8F	28	0111	0.9F	13	0332	0.006	28	0253	0.520			
W	1459	1129	1.3E	Th	0642	1.4E	Sa	0828	0.552	Su	0756	1.150			
	2012	1730	0.7F		1352	0.9F		1544	1.221		1511	1.802			
		2351	1.3E		1906	1.4E		2125	1.826		2112	1.3F			
									0.8F						
14	0842	0556	0.8F	29	0213	1.0F	14	0418	0.055	29	0353	0.035			
Th	1542	1215	1.3E	F	0737	1.5E	Su	0905	0.635	M	0851	0.617			
	2107	1819	0.8F		1443	1.1F		1622	1.300		1605	1.244			
					2017	1.5E		2210	1.907		2214	1.900			
									0.9F						
15	0920	0040	1.3E	30	0312	1.0F	15	0501	0.136	30	0449	0.134			
F	1620	0637	0.7F	Sa	0830	1.7E	M	0939	0.713	Tu	0944	0.713			
	2154	1300	1.4E		1533	1.3F		1659	1.339		1657	1.336			
		1900	0.9F		2123			2252	1.945		2311	1.954			
									1.0F						
				31	0408	1.1F									
				Su	0920	1.9E									
					1623	1.5F									
					2222										

Time meridian 75° W. 0000 is midnight. 1200 is noon.

CHESAPEAKE BAY ENTRANCE, VIRGINIA, 1981
F-Flood, Dir. 305° True E-Ebb, Dir. 125° True

JULY						AUGUST									
Day	Slack Water			Maximum Current			Day	Slack Water			Maximum Current				
	Time	Current	Vel.	Time	Current	Vel.		Time	Current	Vel.	Time	Current	Vel.		
	h.m.	h.m.	knots	h.m.	h.m.	knots		h.m.	h.m.	knots	h.m.	h.m.	knots		
1		0227	1.6E	16		0233	1.2E	1	0033	0349	1.6E	16		0321	1.4E
W	0543	0905	0.9F	Th	0553	0801	0.6F	Sa	0704	0929	0.9F	Su	0635	0859	0.9F
	1036	1427	2.0E		1018	1426	1.5E		1204	1553	1.8E		1130	1524	1.7E
	1748	2045	1.6F		1747	2037	1.1F		1914	2205	1.3F		1845	2130	1.3F
					2347										
2	0003	0318	1.7E	17		0309	1.3E	2	0113	0432	1.5E	17	0033	0359	1.5E
Th	0635	0856	0.9F	F	0630	0840	0.6F	Su	0748	1012	0.9F	M	0713	0940	1.0F
	1126	1518	2.0E		1058	1501	1.5E		1250	1639	1.7E		1217	1607	1.7E
	1839	2135	1.6F		1825	2113	1.2F		2000	2246	1.2F		1928	2211	1.3F
3	0053	0409	1.6E	18	0024	0350	1.3E	3	0151	0515	1.5E	18	0110	0439	1.5E
F	0726	0945	0.9F	Sa	0707	0919	0.7F	M	0832	1056	0.9F	Tu	0754	1025	1.1F
	1216	1609	1.9E		1139	1540	1.6E		1336	1725	1.6E		1307	1650	1.7E
	1929	2225	1.5F		1905	2153	1.2F		2046	2326	1.1F		2015	2257	1.2F
4	0140	0457	1.6E	19	0101	0427	1.3E	4	0226	0558	1.4E	19	0148	0521	1.6E
Sa	0815	1036	0.9F	Su	0745	1000	0.8F	Tu	0916	1141	0.8F	W	0839	1114	1.1F
	1306	1657	1.8E		1223	1621	1.6E		1421	1810	1.4E		1400	1741	1.6E
	2020	2311	1.3F		1948	2234	1.2F		2133				2105	2342	1.1F
5	0225	0546	1.5E	20	0139	0506	1.4E	5		0004	0.9F	20	0229	0607	1.6E
Su	0906	1125	0.8F	M	0825	1045	0.8F	W	0300	0639	1.3E	Th	0929	1207	1.1F
	1356	1748	1.6E		1311	1706	1.6E		1002	1227	0.7F		1458	1836	1.5E
	2112				2033	2317	1.2F		1509	1859	1.3E		2201		
									2223						
6		0000	1.2F	21	0218	0548	1.4E	6		0050	0.7F	21		0033	1.0F
M	0308	0635	1.4E	Tu	0910	1133	0.9F	Th	0335	0727	1.2E	F	0314	0658	1.5E
	0957	1215	0.7F		1404	1755	1.5E		1052	1316	0.7F		1025	1305	1.1F
	1448	1842	1.4E		2123				1600	1953	1.1E		1602	1940	1.4E
	2205								2317				2303		
7		0048	1.0F	22		0004	1.1F	7		0134	0.6F	22		0128	0.8F
Tu	0350	0724	1.3E	W	0300	0637	1.4E	F	0412	0818	1.1E	Sa	0403	0759	1.5E
	1050	1309	0.7F		0959	1226	0.9F		1145	1409	0.6F		1127	1410	1.1F
	1543	1938	1.3E		1503	1853	1.5E		1658	2051	1.0E		1715	2049	1.3E
	2301				2218										
8		0137	0.8F	23		0055	1.0F	8	0016	0227	0.5F	23	0012	0229	0.7F
W	0433	0816	1.2E	Th	0345	0727	1.4E	Sa	0454	0910	1.1E	Su	0459	0904	1.5E
	1144	1402	0.6F		1054	1325	0.9F		1240	1508	0.6F		1233	1520	1.1F
	1643	2037	1.2E		1609	1954	1.4E		1803	2153	1.0E		1833	2203	1.2E
	2359				2319										
9		0228	0.7F	24		0149	0.9F	9	0119	0324	0.4F	24	0125	0339	0.6F
Th	0516	0907	1.2E	F	0434	0826	1.4E	Su	0542	1006	1.1E	M	0604	1013	1.5E
	1238	1501	0.6F		1152	1428	1.0F		1336	1607	0.6F		1340	1634	1.1F
	1747	2138	1.1E		1723	2103	1.3E		1910	2252	1.0E		1949	2311	1.3E
10	0059	0321	0.6F	25	0025	0252	0.8F	10	0220	0422	0.4F	25	0235	0448	0.6F
F	0600	1002	1.2E	Sa	0529	0927	1.5E	M	0636	1100	1.2E	Tu	0713	1120	1.6E
	1331	1557	0.6F		1254	1538	1.0F		1428	1708	0.7F		1444	1739	1.2F
	1853	2234	1.0E		1841	2215	1.3E		2013	2349	1.0E		2056		
11	0159	0416	0.5F	26	0134	0357	0.8F	11	0315	0517	0.4F	26		0014	1.4E
Sa	0646	1052	1.2E	Su	0628	1029	1.6E	Tu	0731	1149	1.2E	W	0337 ^{LS}	0556	0.7F
	1421	1656	0.7F		1356	1645	1.1F		1516	1758	0.8F		0821	1221	1.7E
	1955	2333	1.1E		1956	2323	1.3E		2109				1543	1840	1.3F
													2154		
12	0255	0507	0.5F	27	0241	0501	0.7F	12		0041	1.1E	27		0109	1.4E
Su	0732	1140	1.2E	M	0729	1133	1.7E	W	0403	0606	0.5F	Th	0430	0654	0.8F
	1507	1749	0.8F		1455	1750	1.3F		0824	1238	1.3E		0923	1315	1.8E
	2051				2105				1601	1846	1.0F		1637	1933	1.3F
									2157				2244		
13		0024	1.1E	28		0025	1.4E	13		0126	1.2E	28		0200	1.5E
M	0347	0556	0.5F	Tu	0343	0605	0.8F	Th	0444	0654	0.6F	F	0516	0743	0.9F
	0817	1225	1.3E		0830	1230	1.8E		0913	1320	1.5E		1017	1404	1.8E
	1550	1834	0.9F		1552	1851	1.4F		1642	1930	1.1F		1726	2019	1.3F
	2142				2206				2240				2327		
14		0109	1.1E	29		0122	1.5E	14		0207	1.3E	29		0243	1.5E
Tu	0433	0641	0.5F	W	0440	0700	0.8F	F	0522	0738	0.7F	Sa	0559	0829	0.9F
	0859	1307	1.4E		0929	1323	1.9E		1000	1401	1.6E		1107	1451	1.8E
	1630	1919	1.0F		1646	1944	1.5F		1723	2010	1.2F		1812	2102	1.3F
	2227				2300				2319						
15		0152	1.2E	30		0213	1.6E	15		0243	1.4E	30	0005	0325	1.5E
W	0515	0723	0.5F	Th	0531	0754	0.9F	Sa	0558	0816	0.8F	Su	0638	0911	1.0F
	0939	1345	1.4E		1023	1416	1.9E		1045	1443	1.7E		1152	1534	1.7E
	1709	1955	1.1F		1737	2035	1.5F		1804	2049	1.3F		1856	2139	1.2F
	2308				2349				2356						
				31		D302	1.6E					31	0039	0402	1.5E
				F	0619	0845	0.9F					M	0716	0948	1.0F
					1115	1504	1.9E						1234	1615	1.6E
					1826	2118	1.4F						1937	2214	1.1F

Time meridian 75° W. D000 is midnight. 1200 is noon.

CHESAPEAKE BAY ENTRANCE, VIRGINIA, 1981

F-Flood, Dir. 305° True E-Ebb, Dir. 125° True

SEPTEMBER								OCTOBER												
Day	Slack Water			Maximum Current			Day	Slack Water			Maximum Current			Day	Slack Water			Maximum Current		
	Time	Time	Vel.	Time	Time	Vel.		Time	Time	Vel.	Time	Time	Vel.		Time	Time	Vel.	Time	Time	Vel.
	h.m.	h.m.	knots	h.m.	h.m.	knots		h.m.	h.m.	knots	h.m.	h.m.	knots		h.m.	h.m.	knots	h.m.	h.m.	knots
1 Tu	0109 0754 1314 2019	0438 1027 1656 2250	1.5E 1.0F 1.5E 0.9F	16 W	0038 0725 1301 1957	0409 1008 1635 2232	1.8E 1.4F 1.8E 1.2F	1 Th	0050 0755 1328 2031	0437 1031 1706 2246	1.4E 1.0F 1.3E 0.7F	16 F	0048 0749 1348 2035	0430 1040 1712 2259	1.9E 1.6F 1.7E 1.0F					
2 W	0138 0833 1353 2101	0516 1106 1739 2325	1.4E 0.9F 1.4E 0.8F	17 Th	0117 0812 1354 2049	0453 1056 1727 2319	1.8E 1.4F 1.7E 1.1F	2 F	0116 0833 1405 2114	0509 1110 1747 2325	1.3E 0.9F 1.2E 0.6F	17 Sa	0132 0842 1446 2134	0519 1134 1810 2354	1.8E 1.5F 1.5E 0.9F					
3 Th	0207 0915 1435 2147	0554 1145 1820 2147	1.3E 0.8F 1.2E	18 F	0159 0903 1452 2146	0542 1147 1824 2146	1.7E 1.3F 1.5E	3 Sa	0145 0916 1447 2203	0548 1151 1832 2203	1.2E 0.8F 1.1E	18 Su	0220 0940 1548 2240	0616 1232 1915	1.7E 1.3F 1.4E					
4 F	0237 1001 1520 2238	0633 1232 1911	0.7F 1.2E 0.8F 1.1E	19 Sa	0245 1001 1556 2251	0635 1248 1927	0.9F 1.6E 1.2F 1.4E	4 Su	0218 1004 1535 2300	0629 1240 1924	0.5F 1.1E 0.8F 1.0E	19 M	0315 1045 1656 2353	0718 1337 2025	0.7F 1.5E 1.2F 1.3E					
5 Sa	0311 1052 1612 2336	0722 1321 2005	0.5F 1.1E 0.7F 1.0E	20 Su	0336 1105 1707	0737 1353 2038	0.7F 1.5E 1.1F 1.3E	5 M	0257 1100 1632	0725 1333 2029	0.4F 1.0E 0.7F 0.9E	20 Tu	0420 1156 1807	0832 1448 2134	0.6F 1.4E 1.0F 1.3E					
6 Su	0351 1149 1714	0815 1418 2110	0.4F 1.1E 0.6F 0.9E	21 M	0437 1214 1824	0847 1507 2151	0.6F 1.5E 1.1F 1.2E	6 Tu	0348 1201 1738	0826 1435 2132	0.3F 1.0E 0.7F 0.9E	21 W	0538 1308 1914	0944 1603 2242	1.4E 1.0F 1.3E					
7 M	0441 1248 1823	0236 0917 1521 2214	0.3F 1.0E 0.6F 0.9E	22 Tu	0549 1325 1937	1000 1621 2300	1.4E 1.0F 1.3E	7 W	0455 1303 1845	0933 1541 2236	1.1E 0.7F 1.0E	22 Th	0658 1416 2013	1053 1708 2337	1.4E 1.0F 1.4E					
8 Tu	0542 1347 1931	0337 1019 1623 2313	0.3F 1.1E 0.7F 1.0E	23 W	0641 1432 2040	1108 1730 2359	0.6F 1.5E 1.1F 1.4E	8 Th	0504 1312 1946	1042 1642 2327	0.4F 1.2E 0.8F 1.1E	23 F	0810 1516 2103	1152 1805	0.7F 1.5E 1.0F					
9 W	0649 1440 2030	0441 1115 1724	0.4F 1.2E 0.8F	24 Th	0817 1532 2134	0550 1209 1828	0.7F 1.6E 1.1F	9 F	0251 0725 1455 2038	0503 1132 1736	0.5F 1.3E 0.9F	24 Sa	0351 0909 1609 2145	0627 1246 1854	0.8F 1.5E 0.9F					
10 Th	0754 1529 2120	0537 1206 1815	0.5F 1.3E 0.9F	25 F	0919 1625 2219	0641 1300 1919	0.8F 1.7E 1.1F	10 Sa	0332 0829 1544 2123	0556 1222 1825	1.3E 0.8F 1.5E 1.1F	25 Su	0431 1000 1655 2220	0712 1331 1931	0.9F 1.5E 0.9F					
11 F	0851 1614 2204	0625 1254 1859	0.6F 1.5E 1.1F	26 Sa	1011 1713 2257	0730 1351 1958	0.9F 1.7E 1.1F	11 Su	0411 0926 1631 2205	0643 1312 1911	1.0F 1.7E 1.2F	26 M	0507 1043 1736 2250	0749 1414 2008	1.0F 1.5E 0.9F					
12 Sa	0943 1657 2244	0710 1336 1942	0.8F 1.6E 1.2F	27 Su	1057 1756 2330	0811 1434 2037	1.0F 1.7E 1.1F	12 M	0451 1020 1717 2246	0731 1358 1954	1.2F 1.8E 1.3F	27 Tu	0541 1122 1814 2317	0824 1453 2038	1.1F 1.5E 0.8F					
13 Su	1033 1740 2322	0755 1419 2023	1.0F 1.8E 1.3F	28 M	1138 1836 2359	0849 1513 2109	1.0F 1.6E 1.0F	13 Tu	0532 1111 1803 2326	0817 1444 2039	1.4F 1.9E 1.3F	28 W	0614 1158 1851 2342	0855 1530 2109	1.1F 1.4E 0.8F					
14 M	1121 1824	0836 2104	1.2F 1.8E 1.3F	29 Tu	1216 1914	0923 2142	1.0F 1.5E 0.9F	14 W	0615 1202 1851	0903 1532 2122	1.5F 1.9E 1.3F	29 Th	0648 1232 1927	0930 1604 2139	1.1F 1.4E 0.7F					
15 Tu	1210 1909	0921 2147	1.3F 1.9E 1.3F	30 W	1252 1952	1630 2213	1.4E 0.8F	15 Th	0700 1254 1941	0950 1621 2209	1.6F 1.8E 1.2F	30 F	0722 1306 2005	1004 1640 2214	1.0F 1.3E 0.6F					
												31 Sa	0033 0759 1342 2047	0435 1041 1718 2251	1.3E 1.0F 1.2E 0.5F					

Time meridian 75° W. 0000 is midnight. 1200 is noon.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS, 1981

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES		SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS			
			Lat.	Long.	Min. before Flood	Min. before Ebb	Flood	Ebb	Minimum before Flood	Maximum Flood	Minimum before Ebb	Maximum Ebb
	POTOMAC RIVER	ft	° N	' W	h. m.	h. m.	h. m.	h. m.	knots deg.	knots deg.	knots deg.	knots deg.
					on CHESAPEAKE BAY ENTRANCE, p.64							
4020	Cornfield Point		38 02	76 21								
4025	1 mile south of midchannel		38 01.1	76 21.3	Current irregular	+4 00	+4 00	+4 00	0.5	0.4	0.0	0.0
4030	3.8 miles south of		37 59.4	76 21.5	+3 45	+3 45	+3 45	+3 45	0.7	0.4	0.0	0.0
4035	Fort Point, St. Marys River		38 07.8	76 26.9	Current weak and variable							
4040	Yeocomico River entrance		38 02.1	76 31.2	Current weak and variable							
4045	Piney Point											
4045	0.2 mile south of midchannel		38 07.8	76 32.0	+3 00	+3 00	+3 00	+3 00	1.3	0.7	0.0	0.0
4050	2.2 miles south of		38 06.9	76 32.5	+3 48	+3 40	+3 43	+3 51	0.4	0.4	0.0	0.0
4055	Lower Machodoc Creek entrance		38 05.9	76 33.1	+3 00	+3 00	+3 00	+3 00	0.5	0.3	0.0	0.0
4060	White Point, Nomini Creek entrance		38 08.7	76 39.3	Current weak and variable							
4065	Breton Bay entrance		38 08.1	76 43.3	+3 35	+3 35	+3 35	+3 35	1.2	0.8	0.0	0.0
4070	St. Clements Bay entrance		38 14.5	76 41.7	+2 20	+2 20	+2 20	+2 20	0.6	0.3	0.0	0.0
4075	St. Clements I., 1.8 miles southeast of		38 14.5	76 43.7	Current weak and variable							
4080	St. Clements I., 1.1 miles southwest of		38 11.7	76 42.5	+4 45	+4 45	+4 45	+4 45	0.4	0.6	0.0	0.0
4085	Rock Point, Wicomico River entrance		38 11.57	76 45.67	+4 31	+4 54	+4 44	+4 34	0.6	0.5	0.0	0.0
4090	Swan Point		38 16.4	76 49.3	+3 09	+3 41	+3 53	+3 22	0.5	0.4	0.0	0.0
4095	Dahlgren Harbor Channel		38 16.4	76 56.7	+6 25	+6 25	+6 25	+6 25	0.3	0.5	0.0	0.0
4100	Upper Machodoc Creek entrance		38 18.90	77 01.93	Current weak and variable							
4105	Persimmon Point		38 19	77 02	Current irregular							
4110	Potomac River Bridge, 0.4 mile south of		38 22.1	76 59.4	+7 10	+7 10	+7 10	+7 10	1.2	0.9	0.0	0.0
4120	Chapel Point, Port Tobacco River		38 21.38	76 59.20	+6 54	+7 01	+7 19	+7 17	0.9	0.9	0.0	0.0
4125	Maryland Point		38 27.9	77 02.2	Current weak and variable							
4130	Quantico Creek		38 20.8	77 11.8	+7 15	+7 15	+7 15	+7 15	1.1	0.9	0.0	0.0
4135	Quantico Creek entrance		38 31.3	77 16.6	+7 25	+7 25	+7 25	+7 25	0.7	0.6	0.0	0.0
4140	Freestone Point, 2.3 miles east of		38 31.7	77 17.3	+7 00	+7 00	+7 00	+7 00	0.5	0.3	0.0	0.0
4145	Hallowing Point		38 35.78	77 11.88	+8 16	+8 28	+8 29	+8 28	0.7	0.5	0.0	0.0
4150	Jones Point, Alexandria		38 38.70	77 07.65	+8 31	+8 24	+8 33	+8 19	1.1	0.7	0.0	0.0
4155	Hains Point		38 47.62	77 02.23	+8 55	+8 30	+9 06	+8 41	1.0	0.6	0.0	0.0
4160	Anacostia River entrance		38 51.08	77 01.32	+8 39	+9 00	+9 01	+8 16	0.6	0.2	0.0	0.0
4165	South Capitol Street Bridge		38 51.8	77 00.6	Current weak and variable							
4170	Washington Channel, Washington, D.C.		38 52.07	77 00.38	Current weak and variable							
4175	Virginia Channel, Washington, D.C. <13>		38 51.8	77 01.2	Current weak and variable							
			38 52	77 02								

APPENDIX C.- Solar radiation data

APPENDIX C

01652590

- POTOMAC R AT ALEXANDRIA, VA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	LIGHT INCID. 400- 700NM TOTAL (CAL/ SQ CM) (00201)	DATE	LIGHT INCID. 400- 700NM TOTAL (CAL/ SQ CM) (00201)
OCT		MAY	
01...	214	16...	445
02...	322	17...	571
03...	41	18...	144
04...	256	19...	132
05...	248	20...	417
06...	385	21...	659
07...	333	22...	637
08...	358	23...	638
09...	280	24...	613
10...	69	25...	655
11...	132	26...	496
12...	248	27...	497
13...	250	28...	178
14...	341	29...	399
15...	327	30...	649
16...	314	31...	385
17...	311	JUN	
18...	143	01...	122
MAY		02...	142
14...	623	03...	245
15...	189		

01652590 - POTOMAC R AT ALEXANDRIA, VA. -- Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	LIGHT INCID. 400- 700NM TOTAL (CAL/ SQ CM) (00201)
JUN 04...	312
05...	502
06...	286
07...	702
08...	646
09...	458
10...	395
11...	615
12...	526
13...	231
14...	410
15...	496
16...	603
17...	576
18...	635
19...	592
20...	318
21...	595
22...	505
23...	600
24...	529

DATE	LIGHT INCID. 400- 700NM TOTAL (CAL/ SQ CM) (00201)
JUN 25...	450
26...	593
27...	579
28...	656
29...	505
30...	510
JUL 01...	426
02...	362
03...	257
04...	177
05...	208
06...	352
07...	655
08...	614
09...	559
10...	534
11...	567
12...	657

APPENDIX C

01652590 - POTOMAC R AT ALEXANDRIA, VA. -- Cont.
 WATER QUALITY DATA. WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	LIGHT INCID. 400- 700NM TOTAL (CAL/ SQ CM) (00201)	DATE	LIGHT INCID. 400- 700NM TOTAL (CAL/ SQ CM) (00201)
JULI		AUG	
13...	534	03...	396
14...	662	04...	471
15...	617	05...	428
16...	159	06...	151
17...	508	08...	322
18...	539	09...	525
19...	596	10...	617
20...	481	13...	429
21...	447	14...	438
22...	449	15...	403
23...	638	18...	524
24...	238	19...	336
25...	105	20...	345
25...	372	21...	547
27...	462	22...	147
28...	273	23...	596
29...	570	24...	352
30...	632	29...	341
31...	541		
AUG			
01...	632		
02...	753		

01652590 - POTOMAC R AT ALEXANDRIA, VA. -- Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	LIGHT INCID. 400- 700NM TOTAL (CALV SQ CM) (00201)	DATE	LIGHT INCID. 400- 700NM TOTAL (CALV SQ CM) (00201)
SEP 02...	304	SEP 17...	228
SEP 03...	222	SEP 18...	107
SEP 04...	153	SEP 19...	301
SEP 05...	190	SEP 20...	266
SEP 06...	345	SEP 21...	413
SEP 07...	305	SEP 22...	429
SEP 08...	137	SEP 23...	474
SEP 09...	429	SEP 24...	486
SEP 10...	480	SEP 25...	416
SEP 11...	411	SEP 26...	382
SEP 12...	352	SEP 27...	380
SEP 13...	420	SEP 28...	468
SEP 14...	425	SEP 29...	398
SEP 15...	192	SEP 30...	230
SEP 16...	150		

APPENDIX C

01655480

- POTOMAC R AT INDIAN HEAD, MD

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	LIGHT INCID. 400- 700NM TOTAL (CAL/ SQ CM) (00201)	DATE	LIGHT INCID. 400- 700NM TOTAL (CAL/ SQ CM) (00201)
OCT 01...	248	OCT 22...	327
OCT 02...	327	OCT 23...	256
OCT 03...	55	OCT 24...	272
OCT 04...	319	OCT 25...	72
OCT 05...	278	OCT 26...	286
OCT 05...	432	OCT 27...	286
OCT 07...	344	OCT 28...	80
OCT 08...	388	OCT 29...	209
OCT 09...	333	OCT 30...	248
OCT 10...	85	OCT 31...	346
OCT 11...	171	MAY 14...	621
OCT 12...	280	MAY 15...	217
OCT 13...	324	MAY 16...	424
OCT 14...	371	MAY 17...	516
OCT 15...	366	MAY 18...	150
OCT 16...	350	MAY 19...	88
OCT 17...	341	MAY 20...	393
OCT 18...	140	MAY 21...	652
OCT 19...	239		
OCT 20...	330		
OCT 21...	350		

01555480 - POTOMAC R AT INDIAN HEAD, MD -- Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	LIGHT INCID. 400- 700NM TOTAL (CAL/ SQ CM) (00201)	DATE	LIGHT INCID. 400- 700NM TOTAL (CAL/ SQ CM) (00201)
MAY 22...	652	JUN 26...	717
23...	585	27...	612
24...	628	28...	562
25...	607	29...	547
25...	486	30...	631
JUN 11...	628	JUL 01...	379
12...	427	02...	472
13...	430	03...	290
14...	296	04...	202
15...	571	05...	266
16...	651	06...	390
17...	591	07...	516
18...	611	08...	609
19...	587	09...	584
20...	315	10...	431
21...	636	11...	576
22...	576	12...	651
23...	618	13...	473
24...	447	14...	511
25...	589		

APPENDIX C

01655480 - POTOMAC R AT INDIAN HEAD, MD -- Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	LIGHT INCID. 400- 700NM TOTAL (CALV SQ CM) (00201)	DATE	LIGHT INCID. 400- 700NM TOTAL (CALV SQ CM) (00201)
JUL 15...	668	AUG 05...	462
16...	146	06...	41
17...	559	07...	492
18...	529	08...	319
19...	583	09...	517
20...	493	10...	518
21...	502	11...	373
22...	494	12...	209
23...	634	13...	432
24...	192	14...	447
25...	177	15...	431
26...	457	16...	452
27...	585	17...	445
28...	339	18...	378
29...	486	19...	243
30...	621	20...	392
31...	562	21...	458
AUG 01...	664	22...	128
02...	601	23...	529
03...	372		

01655480 - POTOMAC R AT INDIAN HEAD, MD -- Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

LIGHT
 INCID.
 400-
 700NM
 TOTAL
 (CAL/
 SQ CM)
 (00201)

LIGHT
 INCID.
 400-
 700NM
 TOTAL
 (CAL/
 SQ CM)
 (00201)

DATE

DATE

DATE	LIGHT INCID. 400-700NM TOTAL (CAL/SQ CM) (00201)
AUG 24...	394
AUG 25...	415
AUG 26...	473
AUG 27...	478
AUG 28...	439
AUG 29...	329
AUG 30...	191
AUG 31...	306
SEP 01...	410
SEP 02...	261
SEP 03...	330
SEP 04...	295
SEP 16...	119
SEP 17...	261

DATE	LIGHT INCID. 400-700NM TOTAL (CAL/SQ CM) (00201)
SEP 18...	97
SEP 19...	306
SEP 20...	374
SEP 21...	395
SEP 22...	411
SEP 23...	456
SEP 24...	474
SEP 25...	402
SEP 26...	380
SEP 27...	388
SEP 28...	441
SEP 29...	422
SEP 30...	221