Chesapeake Bay Virginia (CBV) NERR Water Quality Metadata
January - December 1996
Latest update: November 1, 2002

I. Data Set and Research Descriptors

1. Principal investigators and contact persons

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2. Entry verification

The data were uploaded to the PC from the YSI 6000 data loggers and reviewed using PC6000 software from YSI. Graphs were produced and examined using the PC6000 software then printed out and filed in order to aid in reviewing data to correlate any anomalous and outlying data. Next, files were uploaded in .dat and comma delimited format which were opened in Excel 5.0 software and edited to remove extraneous information (headers, footers, spaces, and pre- and post-deployment data). Monthly templates were used to form complete sets of monthly data sets. Macros supplied by NERRS/CDMO were used to help with editing, formatting and identifying outliers in the database. Suspect data (as in data believed to result from a damaged or biofouled probe) were evaluated according to Appendix B of the CDMO manual, edited and documented. Missing data due to YSI maintenance (down time) was inserted into the spreadsheet and was denoted by periods (.). Data that were not within calibration range of the instrument were evaluated and removed from the record and denoted by periods (.). Edited and raw data files were copied and archived in the Chesapeake Bay National Estuarine Research Reserve of Virginia (CBNERRVA) file server and uploaded to the CDMO FTP site. All Taskinas Creek files from 1996 have been verified using the latest update of the Microsoft Excel 5.0 macro programs which identified outliers (values that fall

outside of the calibration range - see section II.8 of this document) and other erroneous data.
Outliers were determined according to the instruments' manufacturers manual. Rob Breeding, the
SWMP Coordinator, and Jeff Shields, the RC, collected and edited data from 1/96-6/96.
Bill Seufzer collected and edited data from 7/96-12/96. Dr. William Reay and Tammy Dorman
processed the data through the latest update of the CDMO macro and conducted final editing
of the data. Following final editing, Tammy Dorman uploaded the database to the CBNERRVA
server and to CDMO.

3. Research Objectives
The Taskinas Creek watershed is representative of an inner coastal plain rural watershed
within the southern Chesapeake Bay system. This watershed is dominated by forested and
agricultural land uses with an increasing urban land use component. The drainage basin is
suited for investigating hydrologic and nonpoint source water quality issues associated with
changing land use patterns; these issues are of prime importance to the U.S. EPA Chesapeake
Bay Program. Continuously monitored physical water quality parameters (dissolved oxygen,
pH, specific conductance, turbidity, and temperature) provide long-term measurements which
can be supplemented with shorter-term monitoring and process oriented studies.
Measurements were taken every 15 minutes at the Taskinas Creek site and the YSI data
loggers were maintained, downloaded, cleaned, and calibrated at two-week intervals.

4. Research methods
The CBNERRVA maintains a long-term water quality-monitoring program, which consists of
a single station located in the transitional zone of the York River tributary. A simple
deployment was arranged with the State Park where a secured YSI 6000 unit hangs at a fixed
depth (0.5 m above the creek bed) from an overhanging tree approximately six meters
upstream from the parks canoe landing. Specific conductance, pH, depth, temperature, DO
saturation, and turbidity are recorded at 15-minute intervals. Salinity and dissolved oxygen
are calculated as a function of temperature and specific conductivity readings. At
approximately two-week intervals, the data logger was returned to the lab for downloading,

cleaning, membrane replacement and recalibration. Maintenance intervals were determined according to the amount of biofouling that occurred and to accommodate battery life. A second YSI 6000 data logger was deployed following retrieval of the original YSI datasonde in order to maintain a continuous record. All procedures are in accordance with YSI Operating Manual methods, sections 3 and 7. Standards for pH, and conductivity were purchased from YSI. Turbidity standard was purchased from Advanced Polymer Systems. Data was reviewed and edited according to the YSI Data Review and Editing Protocol in Appendix B of the CDMO manual.

5. Site location and character
Taskinas Creek (TC) Component: (Latitude 37 deg 24’ 54.04617” N, Longitude 76 deg 42' 51.75733” W) The Taskinas Creek Component of the CBNERR-VA is on the south shore of the York River in James City County near Williamsburg. The site is approximately 44 kilometers upstream from the river's mouth and 15 kilometers downstream from West Point. Headwaters of Taskinas Creek are near the town of Croaker, which is located approximately 10 kilometers north of Williamsburg. The creek flows in a northeasterly direction covering a distance of about 5.5 kilometers eventually feeding into the York River. The sampling station is located on the second bend from the mouth of Taskinas Creek within York River State Park, about 6 meters upstream from the parks canoe landing. The sediment type at this station consists of approximately 42% fine sand, 30% clay, and 28% silt. The creek is tidal for approximately half of its length with a tidal range of 0.00-1.3m. The non-tidal portion contains feeder streams, which drain oak-hickory forests, maple-gum-oak-ash swamps and freshwater marshes. The marshes near the creek mouth are brackish with a salinity range from 3-13 ppt. The shoreline is moderately low with fringing marsh and tidal flats. Taskinas Creek mainly drains the undeveloped York River State Park watershed, however the watershed is lightly impacted above the State Park by residential development and selective hardwood logging. Wildlife populations have been shown to influence microbiological water quality within the watershed.

6. Data collection period:

Ongoing sampling at Taskinas Creek (TC) began September 1995.

7. Associated researchers and projects:
A volunteer water quality-monitoring program sponsored by the Alliance for the Chesapeake
Bay has been ongoing at Taskinas Creek for several years, beginning January 10, 1990. This
project samples some overlapping parameters including dissolved oxygen and salinity on a
two-week basis.

II. Physical Structure Descriptors

8. Variable sequence, range of measurements, units resolution and accuracy (for YSI):

Variable Name	Range of Measurements (units)	Resolution	Accuracy
Date	1-12,1-31,00-99 (Mo, Day, Yr)	1 month, 1 day, 1 year	NA
Time	0-24,0-60,0-60 (Hr, Min, Sec)	1 hour, 1 minute, 1 second	NA
Temperature	-5.0 to 45.0 (deg C)	0.01 deg C	+/- 0.15 deg C
SpCond	0-100 (mS/cm)	0.01 mS/cm	+/- 0.5 reading + 0.001 mS/cm
Salinity	0-70 Parts per thousand (ppt)	0.01 ppt	+/- 1.0% reading or 0.1ppt, (whichever is greater)
DO	0-200 (% air saturation)	0.1% @ air sat	+/- 2.0% @ air sat
DO	200-500 (% air saturation)	0.1% @ air sat	+/- 6.0% @ air sat
DO	0-20 (mg/L)	0.01 mg/L	+/- 0.2 mg/L
DO	20-50 (mg/L)	0.01 mg/L	+/- 0.6 mg/L
Depth	0-9.1 (m)	0.001 m	+/- 0.018 m
pH	2-14 units	0.01 units	+/- 0.2 units
Turbidity	0-1000 NTU	0.1 NTU	+/- 5% of reading or 2 NTU (whichever is greater)

9. Coded variable indicator and variable code definitions
Site definitions: TC = Taskinas Creek.
File definitions: YSI deployment site/month/year (ex.: TC0995 = Taskinas Creek data from
September 1995).

10. Data anomalies (suspect data):
Frequent data anomalies were recorded in depth levels for several months due to low-pressure
weather fronts. This data remained in the record. According to the CDMO Operations
manual version 3.0, depth measurements taken with the non-vented level probe can be
influenced up to 0.39m (1.3ft) during severe low-pressure hurricane events. Depth went

negative during periods of low tide and was accompanied by drops in conductivity (and
salinity). It appears that the low tide left the YSI suspended in the open air. The data were
left intact and should be used with caution for the months of January through June. Starting
with July data were extracted in accordance with Version 3.0 of the CDMO Manual.

January 1996:
TC:
01/06/96 16:30:00 to 18:15:00 All sensors out of water
01/06/96 18:30:00 to 01/13/96 10:30:00 Temperature data could be suspect; there is
minimal daily variations; temperatures remain negative
01/18/96 01:15:00 to 02:15:00 All sensors out of water
01/18/96 13:00:00 to 14:00:00 Negative depth due to low tide or low-pressure system
01/18/96 14:15:00 to 15:00:00 All sensors out of water
01/18/96 15:15:00 to 16:30:00 Negative depth due to low tide or low pressure system
01/19/96 00:30:00 to 02:15:00 Negative depth due to low tide or low pressure system
01/19/96 02:30:00 to 03:30:00 All sensors out of water
01/19/96 03:45:00 to 05:00:00 Negative depth due to low tide or low pressure system
01/19/96 14:00:00 to 18:15:00 Negative depth due to low tide or low pressure system
01/20/96 03:45:00 to 05:15:00 Negative depth due to low tide or low pressure system
01/20/96 16:15:00 to 17:00:00 All sensors out of water
01/20/96 17:15:00 to 17:45:00 Negative depth due to low tide or low pressure
01/21/96 03:15:00 to 03:30:00 Negative depth due to low tide or low pressure system
01/21/96 03:45:00 to 05:15:00 All sensors out of water
01/21/96 05:30:00 to 06:30:00 Negative depth due to low tide or low pressure system
01/21/96 16:15:00 to 18:00:00 Negative depth due to low tide or low pressure system
01/22/96 18:00:00 to 18:45:00 Negative depth due to low tide or low pressure system
01/23/96 05:45:00 to 07:15:00 Negative depth due to low tide or low pressure system
01/23/96 17:45:00 to 20:15:00 Negative depth due to low tide or low pressure system
01/24/96 05:30:00 to 09:15:00 Negative depth due to low tide or low pressure system
01/24/96 17:30:00 to 20:00:00 Negative depth due to low tide or low pressure system
01/24/96 20:15:00 All sensors out of water
01/24/96 20:30:00 to 21:45:00 Negative depth due to low tide or low pressure system

01/25/96 06:15:00 to 08:30:00 Negative depth due to low tide or low pressure system
01/25/96 18:45:00 to 19:00:00 Negative depth due to low tide or low pressure system
01/25/96 19:15:00 to 21:00:00 All sensors out of water
01/25/96 21:15:00 to 21:45:00 Negative depth due to low tide or low pressure system
01/26/96 08:00:00 to 10:15:00 All sensors out of water
01/26/96 20:45:00 to 21:30:00 Negative depth due to low tide or low pressure system
01/27/96 09:45:00 to 11:45:00 Negative depth due to low tide or low pressure system
01/27/96 19:45:00 to 01/28/96 00:30:00 Negative depth due to low tide or low pressure
system
01/28/96 21:30:00 to 21:45:00 Negative depth due to low tide or low pressure system
01/28/96 22:00:00 to 01/29/96 00:45:00 All sensors out of water
01/29/96 01:00:00 Negative depth due to low tide or low-pressure system
01/29/96 10:30:00 to 11:15:00 Negative depth due to low tide or low-pressure system
01/29/96 11:30:00 to 12:45:00 All sensors out of water
01/29/96 13:00:00 to 14:15:00 Negative depth due to low tide or low-pressure system
01/29/96 22:15:00 to 01/30/96 01:30:00 Negative depth due to low tide or low-pressure
system
01/30/96 13:00:00 to 13:45:00 Negative depth due to low tide or low pressure system
01/30/96 23:30:00 to 01/31/96 02:30:00 Negative depth due to low tide or low pressure
system

February 1996:
TC:
02/02/96 12:45:00 to 02/08/96 17:45:00 Temperature data looks suspect; there is
minimal daily variations; temp range is -0.5 to 0.5
02/05/96 17:00:00 to 19:00:00 All sensors were out of water
02/05/96 19:15:00 to 20:00:00 Negative depth due to low tide or low pressure system
02/06/96 03:30:00 to 06:45:00 All sensors were out of water
02/06/96 07:00:00 to 08:30:00 Negative depth due to low tide or low pressure system
02/06/96 16:45:00 to 19:15:00 All sensors were out of water
02/06/96 19:30:00 to 22:00:00 Negative depth due to low tide or low pressure system
02/07/96 04:15:00 Negative depth due to low tide or low-pressure system
02/07/96 04:30:00 to 08:00:00 All sensors were out of water
02/07/96 08:15:00 to 09:15:00 Negative depth due to low tide or low-pressure system

02/07/96 16:30:00 to 17:00:00 Negative depth due to low tide or low-pressure system
02/07/96 17:15:00 to 20:00:00 All sensors were out of water
02/07/96 20:15:00 to 20:30:00 Negative depth due to low tide or low-pressure system
02/08/96 05:00:00 to 05:45:00 Negative depth due to low tide or low-pressure system
02/08/96 06:00:00 to 08:15:00 All sensors were out of water
02/08/96 08:30:00 to 09:00:00 Negative depth due to low tide or low-pressure system
02/08/96 16:30:00 to 17:45:00 Negative depth due to low tide or low-pressure system
02/08/96 18:00:00 to 20:15:00 All sensors were out of water
02/08/96 20:30:00 to 21:45:00 Negative depth due to low tide or low-pressure system
02/09/96 04:30:00 to 06:15:00 Negative depth due to low tide or low-pressure system
02/09/96 06:30:00 to 08:15:00 All sensors were out of water
02/09/96 08:30:00 to 10:00:00 Negative depth due to low tide or low-pressure system
02/09/96 17:15:00 to 18:45:00 Negative depth due to low tide or low-pressure system
02/09/96 19:00:00 to 20:15:00 All sensors were out of water
02/09/96 20:30:00 to 21:45:00 Negative depth due to low tide or low-pressure system
02/10/96 06:00:00 to 07:30:00 Negative depth due to low tide or low-pressure system
02/10/96 07:45:00 to 08:45:00 All sensors were out of water
02/10/96 09:00:00 to 10:15:00 Negative depth due to low tide or low-pressure system
02/10/96 17:45:00 to 19:00:00 Negative depth due to low tide or low-pressure system
02/10/96 19:15:00 to 21:15:00 All sensors were out of water
02/10/96 21:30:00 to 23:15:00 Negative depth due to low tide or low-pressure system
02/11/96 06:30:00 to 09:00:00 Negative depth due to low tide or low-pressure system
02/11/96 09:15:00 to 09:30:00 All sensors were out of water
02/11/96 09:45:00 to 12:15:00 Negative depth due to low tide or low-pressure system
02/11/96 18:15:00 to 23:45:00 Negative depth due to low tide or low-pressure system
02/12/96 09:30:00 to 12:15:00 Negative depth due to low tide or low pressure system
02/12/96 21:00:00 to 02/13/96 00:30:00 Negative depth due to low tide or low pressure system
02/13/96 09:15:00 to 10:00:00 Negative depth due to low tide or low-pressure system
02/13/96 10:15:00 to 12:45:00 All sensors were out of water
02/13/96 13:00:00 to 14:15:00 Negative depth due to low tide or low-pressure system
02/13/96 21:00:00 to 22:15:00 Negative depth due to low tide or low-pressure system

02/13/96 22:30:00 to 02/14/96 01:00:00 All sensors were out of water
02/14/96 01:15:00 to 02:15:00 Negative depth due to low tide or low-pressure system
02/14/96 09:15:00 to 11:15:00 Negative depth due to low tide or low-pressure system
02/14/96 11:30:00 to 13:45:00 All sensors were out of water
02/14/96 14:00:00 to 15:30:00 Negative depth due to low tide or low-pressure system
02/14/96 21:45:00 to 02/15/96 03:00:00 Negative depth due to low tide or low pressure system
02/15/96 11:30:00 to 15:00:00 Negative depth due to low tide or low pressure system
02/16/96 00:30:00 to 02:30:00 Negative depth due to low tide or low pressure system
02/21/96 23:00:00 to 02/29/96 23:45:00 It appears that the YSI was deployed with the cup over the sensors. All channels were flat lined so the data was deleted.

March 1996:
TC:
03/01/96 00:00:00 to 03/04/96 11:00:00 It appears that the YSI was deployed with the cup over the sensors. All channels were flat lined so the data was deleted.
03/06/96 15:15:00 to 15:30:00 Negative depth due to low tides or low-pressure system
03/06/96 15:45:00 to 19:15:00 All sensors out of water
03/06/96 19:30:00 Negative depth due to low tides or low-pressure system
03/06/96 19:30:00 to 21:30:00 Negative turbidity value
03/07/96 08:45:00 Negative turbidity value
03/07/96 16:15:00 to 18:30:00 Negative turbidity value
03/07/96 20:00:00 Negative turbidity value
03/07/96 21:30:00 to 21:45:00 Negative turbidity value
03/08/96 18:00:00 to 18:30:00 Negative turbidity value
03/08/96 18:45:00 to 19:45:00 All sensors were out of water
03/08/96 20:00:00 to 20:15:00 Negative turbidity value
03/08/96 22:15:00 Negative turbidity value
03/09/96 06:15:00 to 08:30:00 Negative turbidity value
03/09/96 09:15:00 Negative turbidity value
03/09/96 09:45:00 Negative turbidity value
03/09/96 10:15:00 Negative turbidity value
03/09/96 11:00:00 to 13:15:00 Negative turbidity value
03/09/96 13:45:00 Negative turbidity value
03/09/96 14:30:00 Negative turbidity value
03/09/96 15:15:00 Negative turbidity value
03/09/96 15:45:00 to 16:00:00 Negative turbidity value
03/09/96 16:30:00 Negative turbidity value
03/09/96 17:00:00 to 17:45:00 Negative turbidity value
03/09/96 18:00:00 to 20:30:00 All sensors out of water
03/09/96 21:45:00 Negative turbidity value
03/09/96 22:15:00 to 22:30:00 Negative turbidity value

03/09/96 23:00:00 to 23:15:00 Negative turbidity value
03/09/96 23:45:00 Negative turbidity value
03/10/96 00:15:00 Negative turbidity value
03/10/96 00:45:00 Negative turbidity value
03/10/96 01:15:00 to 06:45:00 Negative turbidity value
03/10/96 07:00:00 to 08:45:00 All sensors out of water
03/10/96 11:45:00 Negative turbidity value
03/10/96 12:15:00 to 12:30:00 Negative turbidity value
03/10/96 13:15:00 to 13:45:00 Negative turbidity value
03/10/96 14:15:00 Negative turbidity value
03/10/96 15:00:00 Negative turbidity value
03/10/96 15:30:00 Negative turbidity value
03/10/96 16:00:00 to 18:15:00 Negative turbidity value
03/10/96 18:30:00 to 21:15:00 All sensors out of water
03/10/96 21:45:00 Negative turbidity value
03/10/96 22:15:00 Negative turbidity value
03/11/96 01:00:00 Negative turbidity value
03/11/96 01:30:00 to 08:45:00 Negative turbidity value
03/11/96 09:15:00 Negative turbidity value
03/11/96 09:45:00 Negative turbidity value
03/11/96 11:15:00 Negative turbidity value
03/11/96 12:30:00 to 12:45:00 Negative turbidity value
03/11/96 13:15:00 Negative turbidity value
03/11/96 13:45:00 to 14:30:00 Negative turbidity value
03/11/96 15:00:00 Negative turbidity value
03/11/96 15:30:00 to 16:15:00 Negative turbidity value
03/11/96 16:45:00 Negative turbidity value
03/11/96 17:30:00 to 19:15:00 Negative turbidity value
03/11/96 20:00:00 to 20:30:00 Negative turbidity value
03/11/96 21:00:00 to 21:15:00 Negative turbidity value
03/11/96 21:45:00 to 22:15:00 Negative turbidity value
03/11/96 22:45:00 Negative turbidity value
03/11/96 23:15:00 Negative turbidity value
03/11/96 23:45:00 to 03/12/96 00:15:00 Negative turbidity value
03/12/96 00:45:00 to 02:00:00 Negative turbidity value
03/12/96 08:30:00 Negative turbidity value
03/12/96 09:30:00 to 12:15:00 Negative turbidity value
03/12/96 19:30:00 Negative turbidity value
03/12/96 20:00:00 Negative turbidity value
03/12/96 20:30:00 Negative turbidity value
03/12/96 21:00:00 Negative turbidity value
03/12/96 21:30:00 to 23:00:00 Negative turbidity value
03/12/96 23:30:00 Negative turbidity value
03/13/96 00:00:00 to 00:15:00 Negative turbidity value
03/13/96 07:15:00 Negative turbidity value
03/17/96 01:30:00 to 02:30:00 Negative turbidity value
03/17/96 03:00:00 to 04:15:00 Negative turbidity value
03/17/96 04:45:00 Negative turbidity value
03/17/96 05:15:00 Negative turbidity value
03/17/96 05:45:00 Negative turbidity value
03/17/96 07:30:00 Negative turbidity value
03/17/96 09:45:00 to 10:00:00 Negative turbidity value
03/20/96 05:15:00 to 05:45:00 Negative depth due to low tide or low pressure system

03/24/96 06:45:00 to 07:15:00 Negative turbidity value
03/24/96 07:30:00 to 15:30:00 Instrument was out of the water due to low tide
03/24/96 09:00:00 Negative turbidity value
03/24/96 09:45:00 Negative turbidity value
03/24/96 11:15:00 Negative turbidity value
03/24/96 13:45:00 Negative turbidity value
03/24/96 14:15:00 Negative turbidity value
03/24/96 16:30:00 Negative turbidity value
03/24/96 23:00:00 to 23:30:00 Negative turbidity value
03/26/96 03:00:00 Negative turbidity value

April 1996:
TC:
04/02/96 17:15:00 to 17:45:00 Negative turbidity value
04/02/96 18:15:00 Negative turbidity value
04/03/96 06:45:00 Negative turbidity value
04/03/96 08:45:00 Negative turbidity value
04/03/96 09:45:00 Negative turbidity value
04/03/96 14:30:00 Negative turbidity value
04/03/96 21:00:00 Negative turbidity value
04/03/96 21:30:00 Negative turbidity value
04/09/96 20:00:00 Negative turbidity value
04/11/96 13:00:00 to 14:45:00 Negative turbidity value
04/11/96 18:45:00 Negative turbidity value
04/11/96 19:15:00 to 22:00:00 Negative turbidity value
04/11/96 22:30:00 to 23:45:00 Negative depth values due to low tide or low pressure system
04/12/96 01:30:00 Negative turbidity value
04/12/96 03:30:00 Negative turbidity value
04/12/96 10:45:00 to 11:30:00 Negative depth values due to low tide or low pressure system
04/12/96 11:45:00 to 14:15:00 All sensors out of water
04/13/96 00:15:00 to 00:45:00 Negative depth values due to low tide or low pressure system
04/13/96 00:45:00 Negative turbidity value
04/13/96 01:30:00 to 03:30:00 Negative turbidity value
04/13/96 16:30:00 Negative turbidity value
04/15/96 07:45:00 Negative turbidity value
04/16/96 10:30:00 Negative turbidity value
04/17/96 17:45:00 to 18:30:00 Negative turbidity value
04/17/96 19:45:00 to 20:00:00 Negative turbidity value
04/17/96 20:45:00 Negative turbidity value
04/17/96 21:30:00 Negative turbidity value
04/17/96 22:00:00 to 22:30:00 Negative turbidity value
04/17/96 23:45:00 Negative turbidity value
04/18/96 01:30:00 Negative turbidity value
04/18/96 05:45:00 to 06:00:00 Instrument out of water due to low tide
04/19/96 18:30:00 Negative turbidity value
04/21/96 08:00:00 to 08:30:00 All sensors out of water

04/23/96 19:15:00 Negative turbidity value
04/24/96 10:15:00 to 11:15:00 All sensors out of water
04/26/96 14:15:00 Negative turbidity value
04/26/96 14:45:00 Negative turbidity value
04/26/96 15:15:00 Negative turbidity value
04/26/96 15:45:00 Negative turbidity value
04/26/96 16:15:00 Negative turbidity value
04/26/96 16:45:00 Negative turbidity value
04/28/96 18:30:00 Negative turbidity value
04/28/96 20:00:00 Negative turbidity value

May 1996:
TC:
05/03/96 14:00:00 to 05/14/96 14:30:00 DO could be suspect; high pre- and low post-
deployment DO% values
05/07/96 10:15:00 Negative turbidity value
05/12/96 10:30:00 to 11:00:00 Negative turbidity value
05/12/96 11:30:00 Negative turbidity value
05/12/96 16:15:00 Negative turbidity value
05/13/96 04:30:00 Negative turbidity value
05/13/96 12:45:00 Negative turbidity value
05/13/96 13:15:00 Negative turbidity value
05/13/96 13:45:00 to 17:15:00 Negative turbidity value
05/13/96 18:45:00 Negative turbidity value
05/13/96 20:15:00 to 05/14/96 02:00:00 Negative turbidity value
05/14/96 02:15:00 Turbidity values exceed 1000 NTU
05/14/96 02:30:00 Negative turbidity value
05/14/96 03:00:00 to 03:15:00 Negative turbidity value
05/14/96 03:45:00 Negative turbidity value
05/14/96 05:00:00 to 05:15:00 Turbidity values exceed 1000 NTU
05/14/96 08:00:00 Negative turbidity value
05/14/96 08:30:00 to 09:00:00 Negative turbidity value
05/14/96 09:30:00 Turbidity values exceed 1000 NTU
05/14/96 10:00:00 Turbidity values exceed 1000 NTU
05/14/96 11:00:00 Turbidity values exceed 1000 NTU
05/14/96 11:30:00 to 11:45:00 Negative turbidity value
05/14/96 12:15:00 to 12:45:00 Negative turbidity value
05/14/96 13:00:00 Turbidity values exceed 1000 NTU
05/14/96 13:15:00 Negative turbidity value
05/14/96 13:30:00 Turbidity values exceed 1000 NTU
05/14/96 13:45:00 Negative turbidity value
05/14/96 14:00:00 Turbidity values exceed 1000 NTU
05/15/96 06:00:00 Turbidity values exceed 1000 NTU
05/15/96 17:30:00 to 19:00:00 Turbidity values exceed 1000 NTU
05/30/96 09:30:00 to 05/31/96 23:45:00 DO could be suspect; very low post-
deployment DO% values; values recorded are 3 times greater than previously recorded data
but could be due to biofouling of the previous sonde

June 1996:
TC:

06/01/96 00:00:00 to 06/13/96 09:30:00 DO could be suspect; very low post-
deployment DO% values; values are 3 times greater than previously recorded data but could
be due to biofouling of the previous sonde

July 1996:
TC:
07/11/96 12:45:00 to 07/31/96 19:30:00 DO could be suspect; values jumped up then
there was a general slow decline in values

August 1996:
TC:
08/17/96 22:00:00 Negative turbidity value
08/18/96 09:15:00 Negative turbidity value
08/20/96 09:30:00 to 08/31/96 23:45:00 Depth suspect - too high for site (3.5 - 4.0m);
could be cal error
08/20/96 10:45:00 Negative turbidity value
08/22/96 09:15:00 Turbidity value exceed 1000 NTU
08/24/96 19:45:00 Negative turbidity value
08/25/96 16:45:00 Negative turbidity value
08/26/96 04:45:00 Negative turbidity value
08/29/96 02:30:00 Negative turbidity value
08/30/96 01:00:00 Negative turbidity value
08/30/96 03:15:00 to 03:45:00 Negative turbidity value
08/30/96 04:30:00 Negative turbidity value
08/30/96 04:45:00 to 05:30:00 Negative DO values
08/30/96 11:45:00 Negative turbidity value
08/30/96 12:15:00 Negative turbidity value
08/30/96 12:45:00 Negative turbidity value
08/30/96 17:15:00 to 19:00:00 Negative DO values
08/31/96 05:15:00 to 08:00:00 Negative DO values
08/31/96 11:00:00 Negative DO values
08/31/96 12:30:00 Negative DO values
08/31/96 13:00:00 to 14:15:00 Negative DO values
08/31/96 15:00:00 Negative DO values
08/31/96 15:45:00 DO values jump up to 6.2 mg/L from 0.06 mg/L; could
be due to the biofouling of the last sonde during deployment

September 1996:
TC:
09/01/96 00:00:00 to 09/03/96 14:15:00 Depth suspect - too high for site (3.5 - 4.0m);
could be cal error
09/01/96 07:45:00 to 08:15:00 Negative turbidity value
09/01/96 08:45:00 Negative turbidity value
09/01/96 09:15:00 to 10:30:00 Negative turbidity value
09/01/96 13:15:00 to 14:00:00 Negative turbidity value
09/01/96 14:30:00 to 15:00:00 Negative turbidity value
09/01/96 16:15:00 to 17:00:00 Negative turbidity value
09/01/96 17:30:00 to 18:00:00 Negative turbidity value

09/01/96 18:30:00 Negative turbidity value
09/01/96 19:00:00 Negative turbidity value
09/01/96 19:30:00 Negative turbidity value
09/01/96 20:00:00 Negative turbidity value
09/01/96 20:30:00 Negative turbidity value
09/01/96 21:00:00 Negative turbidity value
09/01/96 21:30:00 Negative turbidity value
09/01/96 22:00:00 to 23:15:00 Negative turbidity value
09/02/96 01:15:00 Negative turbidity value
09/02/96 01:45:00 to 05:00:00 Negative turbidity value
09/02/96 05:30:00 to 08:15:00 Negative turbidity value
09/02/96 08:45:00 Negative turbidity value
09/02/96 09:15:00 to 11:30:00 Negative turbidity value
09/02/96 13:00:00 Negative turbidity value
09/02/96 14:45:00 to 15:30:00 Negative turbidity value
09/02/96 16:00:00 to 17:45:00 Negative turbidity value
09/02/96 18:15:00 to 18:45:00 Negative turbidity value
09/02/96 19:15:00 Negative turbidity value
09/02/96 19:30:00 Turbidity values exceed 1000 NTU
09/02/96 19:45:00 Negative turbidity value
09/02/96 20:00:00 Turbidity values exceed 1000 NTU
09/02/96 20:15:00 Negative turbidity value
09/02/96 20:30:00 Turbidity values exceed 1000 NTU
09/02/96 20:45:00 to 09/03/96 02:15:00 Negative turbidity value
09/03/96 03:00:00 Negative turbidity value
09/03/96 04:00:00 to 12:30:00 Negative turbidity value
09/03/96 14:15:00 Negative turbidity value
09/21/96 15:45:00 to 09/30/96 23:45:00 Depth suspect - too high for site (3.5 - 4.0m);
could be cal error
09/26/96 02:00:00 to 09/27/96 12:45:00 Negative turbidity value
09/28/96 18:45:00 Turbidity values exceed 1000 NTU
09/28/96 19:30:00 Turbidity values exceed 1000 NTU
09/28/96 20:30:00 to 09/29/96 04:45:00 Turbidity values exceed 1000 NTU
09/29/96 05:00:00 to 05:30:00 Negative turbidity value
09/29/96 06:00:00 Turbidity values exceed 1000 NTU
09/29/96 06:15:00 to 16:15:00 Negative turbidity value

Depth during September 1996 was noted as too high for this particular site. However,
Hurricane Fran swept through the area September 5 and 6, which may have eventually
influenced the depth data.

October 1996
TC:
10/01/96 00:00:00 to 10/07/96 14:45:00 Depth suspect - too high for site (3.5 - 4.0m);
could be cal error
10/04/96 17:30:00 to 17:45:00 Turbidity value exceeds 1000 NTU
10/05/96 00:00:00 Turbidity value exceeds 1000 NTU
10/05/96 00:45:00 to 01:30:00 Turbidity value exceeds 1000 NTU
10/05/96 01:45:00 Negative turbidity value
10/05/96 02:15:00 Turbidity value exceeds 1000 NTU

10/05/96 08:15:00 Turbidity value exceeds 1000 NTU
10/05/96 09:00:00 to 11:15:00 Turbidity value exceeds 1000 NTU
10/05/96 11:30:00 to 11:45:00 Negative turbidity value
10/05/96 12:30:00 to 12:45:00 Turbidity value exceeds 1000 NTU
10/05/96 13:00:00 to 13:45:00 Negative turbidity value
10/05/96 14:00:00 to 14:15:00 Turbidity value exceeds 1000 NTU
10/05/96 20:00:00 to 20:15:00 Turbidity value exceeds 1000 NTU
10/05/96 20:45:00 to 21:15:00 Turbidity value exceeds 1000 NTU
10/05/96 21:45:00 to 22:15:00 Turbidity value exceeds 1000 NTU
10/05/96 22:30:00 Negative turbidity value
10/05/96 23:15:00 Turbidity value exceeds 1000 NTU
10/05/96 23:30:00 Negative turbidity value
10/05/96 23:45:00 to 10/06/96 00:00:00 Turbidity value exceeds 1000 NTU
10/06/96 01:00:00 to 02:00:00 Turbidity value exceeds 1000 NTU
10/06/96 02:45:00 to 03:30:00 Turbidity value exceeds 1000 NTU
10/06/96 04:30:00 Turbidity value exceeds 1000 NTU
10/06/96 05:45:00 Turbidity value exceeds 1000 NTU
10/06/96 06:15:00 to 06:45:00 Turbidity value exceeds 1000 NTU
10/06/96 07:15:00 to 09:15:00 Turbidity value exceeds 1000 NTU
10/06/96 09:30:00 to 11:30:00 Negative turbidity value
10/06/96 13:15:00 to 13:30:00 Turbidity value exceeds 1000 NTU
10/06/96 14:00:00 Turbidity value exceeds 1000 NTU
10/06/96 14:15:00 to 15:45:00 Negative turbidity value
10/06/96 16:00:00 to 16:15:00 Turbidity value exceeds 1000 NTU
10/06/96 16:45:00 to 17:00:00 Turbidity value exceeds 1000 NTU
10/06/96 18:00:00 to 18:30:00 Negative turbidity value
10/06/96 18:45:00 Turbidity value exceeds 1000 NTU
10/06/96 19:00:00 to 19:30:00 Negative turbidity value
10/06/96 19:45:00 Turbidity value exceeds 1000 NTU
10/06/96 20:15:00 Turbidity value exceeds 1000 NTU
10/06/96 20:30:00 to 21:15:00 Negative turbidity value
10/06/96 21:30:00 to 22:00:00 Turbidity value exceeds 1000 NTU
10/06/96 22:30:00 Turbidity value exceeds 1000 NTU
10/06/96 22:45:00 to 10/07/96 05:00:00 Negative turbidity value
10/07/96 06:00:00 Turbidity value exceeds 1000 NTU
10/07/96 06:45:00 to 9:45:00 Turbidity value exceeds 1000 NTU
10/07/96 10:30:00 Negative turbidity value
10/07/96 10:45:00 to 11:30:00 Turbidity value exceeds 1000 NTU
10/07/96 11:45:00 to 12:00:00 Negative turbidity value
10/07/96 12:15:00 to 12:30:00 Turbidity value exceeds 1000 NTU
10/07/96 12:45:00 to 14:45:00 Negative turbidity value
10/07/96 15:30:00 to 10/24/96 15:00:00 Specific conductivity, salinity, DO%, and DO mg/L
were deleted due to improper salinity calibration
10/09/96 01:30:00 to 03:15:00 Negative depth value due to low tide or low-pressure
systems
10/09/96 13:30:00 to 14:45:00 Negative depth value due to low tide or low-pressure
systems
10/10/96 01:30:00 to 04:00:00 Negative depth value due to low tide or low-pressure
systems

10/10/96 13:15:00 to 16:30:00 Negative depth value due to low tide or low-pressure systems
10/11/96 01:15:00 to 02:00:00 Negative depth value due to low tide or low-pressure systems
10/11/96 02:15:00 to 03:45:00 All sensors out of water
10/11/96 04:00:00 to 04:45:00 Negative depth value due to low tide or low-pressure systems
10/11/96 14:00:00 to 14:30:00 Negative depth value due to low tide or low-pressure systems
10/11/96 14:45:00 to 16:45:00 All sensors out of water
10/11/96 17:00:00 to 17:30:00 Negative depth value due to low tide or low-pressure systems
10/12/96 02:30:00 to 02:45:00 Negative depth value due to low tide or low-pressure systems
10/12/96 03:00:00 to 05:00:00 All sensors out of water
10/12/96 15:30:00 to 17:00:00 All sensors out of water
10/12/96 17:30:00 Negative depth value due to low tide or low-pressure systems
10/13/96 03:00:00 Negative depth value due to low tide or low-pressure systems
10/13/96 03:15:00 to 05:45:00 All sensors out of water
10/13/96 06:00:00 to 06:15:00 Negative depth value due to low tide or low-pressure systems
10/13/96 16:00:00 to 18:15:00 All sensors out of water
10/13/96 18:30:00 to 19:00:00 Negative depth value due to low tide or low-pressure systems
10/14/96 03:00:00 Negative depth value due to low tide or low-pressure systems
10/14/96 03:15:00 to 07:00:00 All sensors out of water
10/14/96 07:15:00 to 07:45:00 Negative depth value due to low tide or low-pressure systems
10/14/96 15:30:00 to 16:00:00 Negative depth value due to low tide or low-pressure systems
10/14/96 16:15:00 to 19:15:00 All sensors out of water
10/14/96 19:30:00 to 20:00:00 Negative depth value due to low tide or low-pressure systems
10/15/96 03:45:00 to 04:00:00 Negative depth value due to low tide or low-pressure systems
10/15/96 04:15:00 to 06:45:00 All sensors out of water

10/15/96 07:00:00 to 07:15:00 Negative depth value due to low tide or low-pressure
systems
10/15/96 17:15:00 to 17:30:00 Negative depth value due to low tide or low-pressure
systems
10/15/96 17:45:00 to 19:30:00 All sensors out of water
10/15/96 19:45:00 to 20:30:00 Negative depth value due to low tide or low-pressure
systems
10/16/96 04:15:00 to 04:30:00 Negative depth value due to low tide or low-pressure
systems
10/16/96 04:45:00 to 07:45:00 All sensors out of water
10/17/96 06:45:00 to 08:15:00 Negative depth value due to low tide or low-pressure
systems

November 1996:
TC:
No Anomalous Data.

December 1996:
TC:
12/02/96 16:30:00 to 12/20/96 12:30:00 DO values deleted due to probe malfunction
12/03/96 04:15:00 to 13:15:00 Negative DO values
12/03/96 19:45:00 to 23:45:00 Negative DO values
12/22/96 15:30:00 Instrument out of water due to low tide

12. Missing data
Missing data is either the result of
1) the YSI not deployed
2) YSI out of the water (negative depth with salinity of zero)
3) a probe not attached
4) a probe malfunction

January, 1996:
Note-*not missing data
TC:
01/01/96 00:00:00 to 01/04/96 11:15:00 YSI Not Deployed
01/06/96 16:30:00 to 18:15:00 All sensors out of water
01/18/96 01:15:00 to 02:15:00 All sensors out of water
*01/18/96 12:30:00 Replacement sonde deployed
01/18/96 12:30:00 to 01/31/96 23:45:00 Turbidity probe not deployed
01/18/96 14:15:00 to 15:00:00 All sensors out of water
01/19/96 02:30:00 to 03:30:00 All sensors out of water
01/20/96 16:15:00 to 17:00:00 All sensors out of water
01/21/96 03:45:00 to 05:15:00 All sensors out of water
01/24/96 20:15:00 All sensors out of water
01/25/96 19:15:00 to 21:00:00 All sensors out of water
01/26/96 08:00:00 to 10:15:00 All sensors out of water
01/28/96 22:00:00 to 01/29/96 00:45:00 All sensors out of water

01/29/96 11:30:00 to 12:45:00 All sensors out of water

February 1996:
TC:
02/01/96 00:00:00 to 02/16/96 16:30:00 Turbidity probe not deployed
02/01/96 14:45:00 to 16:30:00 Maintenance
02/05/96 17:00:00 to 19:00:00 All sensors were out of water
02/06/96 03:30:00 to 06:45:00 All sensors were out of water
02/06/96 16:45:00 to 19:15:00 All sensors were out of water
02/07/96 04:30:00 to 08:00:00 All sensors were out of water
02/07/96 17:15:00 to 20:00:00 All sensors out of water
02/08/96 06:00:00 to 08:15:00 All sensors were out of water
02/08/96 18:00:00 to 20:15:00 All sensors were out of water
02/09/96 06:30:00 to 08:15:00 All sensors were out of water
02/09/96 19:00:00 to 20:15:00 All sensors out of water
02/10/96 07:45:00 to 08:45:00 All sensors out of water
02/10/96 19:15:00 to 21:15:00 All sensors were out of water
02/11/96 09:15:00 to 09:30:00 All sensors out of water
02/13/96 10:15:00 to 12:45:00 All sensors were out of water
02/13/96 22:30:00 to 02/14/96 01:00:00 All sensors were out of water
02/14/96 11:30:00 to 13:45:00 All sensors were out of water
02/16/96 16:45:00 to 02/21/96 22:45:00 Maintenance
02/21/96 23:00:00 to 02/29/96 23:45:00 It appears the YSI was deployed with the cup
over the sensors. All channels were flat lined so the data was deleted.

March 1996:
TC:
03/01/96 00:00:00 to 03/04/96 11:00:00 It appears the YSI was deployed with the cup
over the sensors. All channels were flat lined so the data was deleted.
03/04/96 11:15:00 to 03/06/96 10:45:00 Maintenance
03/06/96 15:45:00 to 19:15:00 All sensors out of water
03/08/96 18:45:00 to 19:45:00 All sensors out of water
03/09/96 18:00:00 to 20:30:00 All sensors out of water
03/10/96 07:00:00 to 08:45:00 All sensors out of water
03/10/96 18:30:00 to 21:15:00 All sensors out of water
03/24/96 07:30:00 to 15:30:00 Instrument was out of the water due to low tide
03/27/96 07:45:00 to 03/31/96 23:45:00 Maintenance

April 1996:
TC:
04/01/96 00:00:00 to 04/02/96 13:00:00 Maintenance
04/12/96 11:45:00 to 14:15:00 All sensors were out of water
04/17/96 14:30:00 to 16:15:00 Maintenance
04/18/96 05:45:00 to 06:00:00 Instrument out of water due to low tide
04/21/96 08:00:00 to 08:30:00 All sensors out of water
04/24/96 10:15:00 to 11:15:00 All sensors out of water
04/29/96 14:15:00 to 04/30/96 23:45:00 Maintenance

May 1996:
TC:

05/01/96 00:00:00 to 05/03/96 13:45:00 Maintenance
05/14/96 14:45:00 to 15:45:00 Maintenance
05/29/96 15:00:00 to 05/30/96 09:15:00 Maintenance
05/30/96 09:30:00 to 05/31/96 23:45:00 Turbidity probe not deployed

June 1996:
TC:
06/01/96 00:00:00 to 06/13/96 09:30:00 Turbidity probe not deployed
06/13/96 09:45:00 to 06/26/96 15:00:00 Maintenance
06/26/96 15:15:00 to 06/30/96 23:45:00 Turbidity probe not deployed

July 1996:
TC:
07/01/96 00:00:00 to 07/11/96 09:15:00 Turbidity probe not deployed
07/11/96 09:30:00 to 12:30:00 Maintenance
07/11/96 12:45:00 to 07/31/96 19:30:00 Turbidity probe not deployed
07/31/96 19:45:00 to 23:45:00 Maintenance

August 1996:
TC:
08/01/96 00:00:00 to 08/10/96 15:30:00 Maintenance
08/20/96 09:15:00 Maintenance
08/20/96 09:30:00 to 08/31/96 23:45:00 Depth suspect - too high for site (3.5 - 4.0m);
could be cal error
08/28/96 20:45:00 to 21:30:00 Missing data due to time skip
08/30/96 01:45:00 Missing data due to time skip
08/30/96 04:45:00 to 05:30:00 Negative DO values
08/30/96 07:15:00 Missing data due to time skip
08/30/96 10:00:00 Missing data due to time skip
08/30/96 11:00:00 Missing data due to time skip
08/30/96 11:30:00 Missing data due to time skip
08/30/96 14:00:00 Missing data due to time skip
08/30/96 14:30:00 Missing data due to time skip
08/30/96 15:00:00 Missing data due to time skip
08/30/96 15:30:00 Missing data due to time skip
08/30/96 16:00:00 Missing data due to time skip
08/30/96 17:15:00 to 19:00:00 Negative DO values
08/30/96 22:15:00 to 08/31/96 00:30:00 Missing data due to time skip
08/31/96 04:00:00 to 04:30:00 Missing data due to time skip
08/31/96 05:15:00 to 08:00:00 Negative DO values
08/31/96 10:15:00 Missing data due to time skip
08/31/96 11:00:00 Negative DO values
08/31/96 12:00:00 to 12:15:00 Missing data due to time skip
08/31/96 12:30:00 Negative DO values
08/31/96 13:00:00 to 14:15:00 Negative DO values
08/31/96 15:00:00 Negative DO values
08/31/96 22:30:00 to 23:45:00 Missing data due to time skip

September 1996:
TC:
09/01/96 00:00:00 to 00:30:00 Missing data due to time skip
09/01/96 00:00:00 to 09/03/96 14:15:00 Depth suspect - too high for site (3.5 - 4.0m);

could be cal error
09/01/96 10:45:00 to 12:45:00 Missing data due to time skip
09/01/96 16:00:00 Missing data due to time skip
09/01/96 23:30:00 to 09/02/96 01:00:00 Missing data due to time skip
09/02/96 05:15:00 Missing data due to time skip
09/02/96 11:45:00 to 12:45:00 Missing data due to time skip
09/02/96 13:15:00 to 13:45:00 Missing data due to time skip
09/02/96 14:30:00 Missing data due to time skip
09/03/96 02:30:00 to 02:45:00 Missing data due to time skip
09/03/96 03:15:00 to 03:45:00 Missing data due to time skip
09/03/96 12:45:00 to 14:00:00 Missing data due to time skip
09/03/96 14:30:00 to 09/06/96 10:15:00 Maintenance
09/06/96 10:30:00 to 09/21/96 15:15:00 Turbidity probe not deployed
09/21/96 15:30:00 Maintenance
09/21/96 15:45:00 to 09/30/96 23:45:00 Depth suspect - too high for site (3.5 - 4.0m);
could be cal error

Depth during September 1996 was noted as too high for this particular site. However,
Hurricane Fran swept through the area September 5 and 6, which may have eventually
influenced the depth data.

October 1996:
TC:
10/01/96 00:00:00 to 10/07/96 14:45:00 Depth suspect - too high for site (3.5 – 4.0m);
could be cal error
10/07/96 15:00:00 to 15:15:00 Maintenance
10/07/96 15:30:00 to 10/24/96 15:00:00 Turbidity probe not deployed
10/07/96 15:30:00 to 10/24/96 15:00:00 Specific conductivity, salinity, DO%, and DO mg/L
were deleted due to improper salinity calibration
10/11/96 02:15:00 to 03:45:00 All sensors out of water
10/11/96 14:45:00 to 16:45:00 All sensors out of water
10/12/96 03:00:00 to 05:00:00 All sensors out of water
10/12/96 15:30:00 to 17:00:00 All sensors out of water
10/13/96 03:15:00 to 05:45:00 All sensors out of water
10/13/96 16:00:00 to 18:15:00 All sensors out of water
10/14/96 03:15:00 to 07:00:00 All sensors out of water
10/14/96 16:15:00 to 19:15:00 All sensors out of water
10/15/96 04:15:00 to 06:45:00 All sensors out of water
10/15/96 17:45:00 to 19:30:00 All sensors out of water
10/16/96 04:45:00 to 07:45:00 All sensors out of water
10/24/96 15:15:00 Maintenance
10/24/96 15:30:00 to 10/31/96 23:45:00 Turbidity probe not deployed

November 1996:
TC:
11/01/96 00:00:00 to 11/23/96 14:00:00 Turbidity probe not deployed
11/23/96 14:15:00 to 11/30/96 23:45:00 YSI not deployed

December 1996:

Note- *not missing data

TC:

12/01/96 00:00:00 to 12/02/96 16:15:00	Maintenance
12/02/96 16:30:00 to 12/31/96 23:45:00	No turbidity probe
12/02/96 16:30:00 to 12/20/96 12:30:00	DO values deleted due to probe malfunction
12/03/96 04:15:00 to 13:15:00	Negative DO values
12/03/96 19:45:00 to 23:45:00	Negative DO values
*12/20/96 12:45:00	Replacement sonde deployed
12/22/96 15:30:00	Instrument out of water due to low tide

12. Remarks

In 1996, several files were recorded in Daylight Savings Time instead of Eastern Standard Time (EST). Tammy Dorman corrected the following files so that they would be in accordance with the NERR System Wide Monitoring Program by displaying the date and the time in EST.

TC960503.csv was corrected to EST
TC960514.csv was corrected to EST
TC960530.csv was corrected to EST
TC960626.csv was corrected to EST
TC960711.csv was corrected to EST
TC960810.csv was corrected to EST
TC960819.csv was corrected to EST
TC960906.csv was corrected to EST
TC960920.csv was corrected to EST
TC961007.csv was corrected to EST
TC961024.csv was corrected to EST

Turbidity data often resulted in anomalous negative data. The winter of 95/96 saw four major snowfall periods from January through March. Hurricane Bertha moved through the area 7/12-7/14 with 3-5 inches of rain. Hurricane Fran moved through the area 9/5-9/6. The summer of 96 was one of the wettest on record for the state of Virginia. The following corrections were made in order to align time data sequencing.

08/10/96 16:45:00 to 08/20/96 10:00:00	Time clock off; corrected
08/30/96 02:00:00 to 08/31/96 23:15:00	Time clock off; corrected
09/01/96 01:45:00 to 09/03/96 15:00:00	Time clock off; corrected

Any regions of data with negative depth values due to low tides or low-pressure system should be viewed with caution. In some instances the probes are clearly out of water and have been noted. Depth data should be considered relative depth. The instrument was deployed on a rope that was tied to a tree branch and therefore may have been deployed at a slightly different depth for each deployment. This situation was corrected in the fall of 1996 with

the use of a steel cable and mounting hardware that keeps the instrument at a fixed altitude from the creek bottom, however is influenced by the current causing the instrument to sway as the tides change. Taskinas Creek experiences extremely low tides where it is difficult to determine times when the probes are out of the water and when they are not. If the YSI would have been more securely deployed and at a fixed depth from the bottom, the problem of exposure from low tides might have been lessened. Also there is an ongoing problem with land subsidence in Taskinas Creek, which at times affects our deployment because the tree from which our unit is attached, sinks with the land. Current efforts are being made to construct a more stable and elevation referenced station.