

Sapelo Island (SAP) NERR Water Quality Metadata
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2. Entry Verification:

Deployment data (.DATfiles) are uploaded from the YSI 6600 datalogger to a personal computer. Data plots are produced and examined and erroneous data are detected using the PC6000 or EcoWatch software from YSI. Notes are made of any unusual data during that deployment. Files are exported from EcoWatch in a comma-delimited format (.CSV) and opened in Microsoft Excel for pre-processing with the EQWin format macro that was developed by the CDMO. Data files are revised using the EQWinformat.xls macro that 1) ensure parameters are in the correct order; 2) convert depth in feet to depth in meters; 3) format the data to the correct number of decimal points; 4) inserts a station identifying code; 5) insert a corrected time column; 6) allows the user to remove any pre and post deployment data from the file. Where deployment overlap occurs between files, the data produced by the newly calibrated sonde is accepted as being the most accurate.

The pre-processed data are then copied into EQWin where: 1) the station and parameters are verified against the database; 2) the file configurations are checked; 3) the date and time formats are checked; 4) the data are checked for duplication; 5) the data are checked for outliers (data outside the acceptable range of the sensors) and 6) graphs are generated. The reports and graphs are printed and the data reviewed. Data at the beginning and end of each data record when the instrument was out of the water are deleted. These data are identified by field notes that document the times of deployment and retrieval and the sudden change in specific conductivity and depth records. Data in the remainder of the record are not deleted unless supporting reasons can be documented. EQWin is also used to generate statistics, view graphs, create customized reports and queries of the data, cross query the water, weather, and nutrient data and finally export the data to the CDMO.

The anomalous data are evaluated to determine whether to flag or delete the suspect data. Data are flagged if the values are: 1) outside the range expected for the site (see Site Location and Character section 5), 2) outside the range of measurements and accuracy

established for the sensors (see section 9), or 3) outside the range established for good water quality conditions (e.g., turbidity >150 NTU, negative turbidity, variable DO, or sudden data spikes). Data outside the acceptable range for a particular site are investigated for validity based on weather data, field observations, OC checks, data printouts, and instrument diagnostics. Data are deleted if the anomalies are attributed to: 1) sensor malfunction –if the voltage reading is outside the range established for the sensor or the sensor will not calibrate, 2) exposure of the sensors during low tide – identified by unusual depth, temperature, and specific conductivity data, or 3) fouling of the sensors by aquatic organisms, debris, or sediment –detected by in situ sensor with measurements (see Section 4). Turbidity readings >900 NTU are deleted. In addition sensor readings that differ significantly (>10%) from standard solutions (e.g., conductivity) suggest that the sensor was fouled during deployment. After corrections are made to the pre-processed data in Excel, it is imported into the EQWin database and an updated file is submitted to the CDMO via FTP for archival. Patrick Hagan is responsible for all data management and QA/AC.

3) Research objectives:

Hydrological studies (Ragotskie and Bryson, 1955; Imberger et al., 1983) have shown that there are three tidal excursions along the length of the Duplin River, resulting in three distinct water masses. The two monitoring sites in the Duplin River, called the Lower Duplin site and the Hunt Dock site, are located within the lower and upper water masses, respectively. Water passing the Lower Duplin site during flood tide has come from Doboy Sound, which receives input from the Altamaha River via the Intra-Coastal Waterway and from the Atlantic Ocean. The water in the lower water mass is pushed further up the Duplin or up smaller tidal creeks and some is pushed onto the marsh surface by the flood tide and recedes into the main channel during ebb tide. The water in the upper water mass, which passes the Hunt Camp station, is pushed up small creek channels and onto the marsh at each high tide. Thus the two stations monitor conditions in two hydrological separate water masses, one of which is heavily influenced by exchanges with Doboy Sound and the other which is influenced by its twice-daily contact with the marsh surface.

Sapelo Island is only accessible by passenger ferry. Due to its isolation, the salt marsh and tidal waters of the SAP NERR show relatively little evidence of human impact. Thus the Marsh Landing dock, where the Lower Duplin site is located, the primary access point for the approximately 200-300 residents, commuters and daily visitors plus barge off loading was chosen as the most directly impacted site. The Lower Duplin site is also readily accessible and centrally located within the SAP NERR. The University of Georgia Marine Institute has used this as a monitoring site for years and SAP NERR continues to do so. The Hunt Dock site was selected in July 1999 for monitoring. It is a dock only used for transporting hunters during the fall season. It is further up the Duplin, where the primary usage of the river is for pleasure boating and crabbing. Therefore it is considered the least impacted site.

Two previously maintained stations in the Duplin River (Flume Dock and Marsh Landing) have been discontinued and moved to Cabretta Creek and Dean Creek; respectively. The addition of these two sites allow for collection of comparative water quality data across both a larger spatial domain and a wider salinity regime than the previous duplicative, near surface stations located at the discontinued sites. These sites are also different from the Duplin River sites as they are representative of poorly studied, small creek and salt marsh systems. The site changes in the Sapelo Island NERR water quality monitoring program allow for comparisons between larger, intensively studied, tidal river regimes (Duplin River) and smaller, lesser known, tidal creek systems of greater marine influence (Cabretta Creek and Dean Creek). These new sites differ from the Duplin River sites in both marine water delivery and dynamics associated with rainfall events. The marsh (watershed) to creek volume ratios within the new sites also differ with the Dean Creek site feeding into Doboy Sound with an extensive associated marsh hence, freshwater runoff. The Dean Creek site therefore displays highly dynamic shifts in salinity in response to rainfall events. By contrast, the Cabretta Creek site with its mouth feeding directly in to Cabretta inlet, located on Sapelo Island's Atlantic Ocean frontage, displays a much lower marsh to creek volume ratio therefore, reduced salinity dynamics associated with rainfall events by comparison to either the Dean Creek site or the Duplin River sites.

The long-term trends and short-term variability within the water quality and hydrodynamics of these differing water quality monitoring sites promote research questions and provide information related to differing temporal salinity dynamics and biological responses

4. Research Methods:

Before each YSI 6600 data logger is deployed, calibration and maintenance is performed following the manufacturer's instructions. Calibration standards are only required for pH, conductivity, and turbidity, all other parameters are done as described in the manual. Buffer solutions for 2-point calibration (pH 7 and 10) are purchased from a scientific supply house. The conductivity standard is made using a 0.2 M solution of KCl ($24.82\text{mS/cm} = 14.92\text{ g/L}$) or from serial dilution of a certified conductivity standard. The turbidity calibration uses a YSI produced solution. The dissolved oxygen membranes are replaced before deployment and are allowed to sit at least 24 hours prior to deployment. Calibration is then verified by running a standard as a sample after each calibration.

When deployed, the weather conditions and tidal stage are recorded in the field observation log. The data logger is placed inside a length of PVC pipe attached to the dock. The data logger is attached to a non-floating dock by a monofilament cable and run down a PVC pipe to rest 0.5m above the surface bottom. Because of the large tidal range, water is continually flushed through the PVC pipes, thus eliminating the problem of creating a stagnant column of water with in the pipe with data logger. Every 30 minutes during the sampling period measurements are taken for temperature, specific

conductance, salinity, pH, dissolved oxygen concentration, percent saturation, depth and turbidity.

At the end of the sample period the data logger is retrieved and immediately replaced by another calibrated data logger. The data logger is then taken to the lab and runs QA/QC standards for pH, and conductivity, and dissolved oxygen, the data are uploaded, and the sonde is cleaned. Data are removed if the post calibration standards fail or if technical problems are noted. All data removed is noted in the metadata.

5. Site Location and character:

The Lower Duplin (LD) monitoring site (31 deg 25' 4" N, 81 deg 17' 46" W) is located on the Marsh Landing Dock in the Duplin River on Sapelo Island and consists of a muddy bottom habitat. Water passing the dock during flood tide originates from the Doboy Sound. The Doboy Sound receives input from the Atlantic Ocean, and the Altamaha River via the Intra-Coastal Waterway. The water is pushed up the river or up smaller tidal creeks and some is pushed onto the marsh surface by the flood tide and recedes into the main channel during ebb tide. The Marsh Landing dock is used as the main dock to the island where the ferry makes several daily runs, with several small boats that are docked there. The surrounding area vegetation is dominated by salt marsh with *Spartina* being the predominate flora. Normal tidal range for the site is 3 meters and the salinity range is 5-35 ppt. The depth at this sampling station ranges from 2.5 meters to 6.0 meters depending on tide.

The Hunt Dock monitoring site (31 deg 28' 43", 81 deg 16' 23" W) is located on the Duplin River, off of Moses Hammock, which is separated from Sapelo Island by a small tidal channel. The primary runoff at the site is from tidal creeks flowing through *Spartina* marsh and through the mud. Bottom habitat at this site includes soft mud and some oyster bed building along the shoreline with an average tidal range of 3 meters and a salinity range of 5-35 ppt. There is little human traffic this far up the Duplin and it is north of the people living on Sapelo. During the fall, the Hunt dock and Moses Hammock is the camping and docking site for deer hunters traveling to the island. These are controlled hunts and dates are available from the SAP NERR office if needed. The maximum depth at the Hunt Dock site is 4.27 meters.

Dean Creek (DC), (N 31 23 22.5W 81 16 44.2) is located on a small wooden bridge spanning Dean Creek, in close proximity to the adjacent Nannygoat Beach causeway. Low water depth at this site is approximation 0.5 meters. Dean Creek is a small tidal basin fed from the waters of Doboy Sound, which is located on Sapelo Island's south end. The creeks' salinity normally ranges between 5 and 30 ppt. The benthic community consists of a sandy-mud substrate with occasional, small, intertidal oyster reef community and mean tidal amplitude of approximately 3 meters. The small creek feeds approximately 150 acres of *Spartina alterniflora* dominated salt marsh, which is interspersed with small 0.5-1 acre hammocks and salt pans. Fringe community

components range from Loblolly pine forests with a sub-canopy of Yaupon holly to Wax myrtle and Sable Palm.

The Cabretta Creek (CA) site coordinates are N 31 26 37.3W 81 14 23.7. The station is located on a small (one-lane), wooden, roadway bridge spanning Cabretta creek located on the island's extreme eastern side, bordering the Atlantic Ocean. The site is approximately 1 meter deep at low water. The creek is fed directly from waters of the Atlantic Ocean. Cabretta experiences an average tidal range of approximately 3 meters. Salinity ranges with exception to major, long-term precipitation events, varies from 15-36 ppt., seasonally. The benthos is composed primarily of sand substrate with small, intertidal oyster reef conglomerate communities. Adjacent to the site is extensive, intertidal, bank stabilization (armoring) in the form of woven rip-rap fencing and granite rocks. This manipulation is slowly becoming stabilized via oyster reef community colonization. The adjacent marshes are dominated by *Spartina alterniflora* with occasional *Juncus roemerianus* in the nearby fringe community habitat. The creek has very little adjacent uplands due to: 1) the low elevational gradient and 2) the areas geologically recent accretion genesis (Holocene) resulting in sandy soils; of which neither condition allows for extensive floral colonization or stabilization.

There are no current studies on pollutants in this area. Sapelo Island is typically considered a pristine environment, with minimal pollutant input.

6. Data collection period: (listed by each deployment)

Deploy date	time	retrieve date	time
Cabretta:			
12/20/04	1330	1/6/05	1130
1/6/05	1230	2/1/05	1230
2/1/05	1230	2/16/05	1130
2/16/05	1230	3/4/05	1000
3/4/05	1030	3/24/05	1030
3/24/05	1100	4/13/05	1030
4/12/05	1100	4/28/05	1000
4/27/05	1400	5/10/05	0930
5/10/05	1000	6/7/05	1300
6/8/05	1200	6/22/05	0900
6/21/05	1300	7/14/05	0930
7/12/05	1300	7/27/05	0900
7/26/05	1130	8/10/05	0900
8/9/05	1300	8/26/05	0930
8/25/05	1130	9/8/05	0830
9/7/05	1330	9/22/05	0830
9/21/05	1330	10/11/05	0930
10/07/05	1230	10/28/05	0830

10/31/05	1900	11/9/05	0900
11/8/05	1430	11/22/05	0930
11/21/05	1530	12/8/05	1130
12/7/05	1300	12/21/05	1400
12/21/05	1530	1/5/06	1100
Dean Creek			
12/20/04	1130	1/6/05	1100
1/6/05	1200	2/1/05	1200
2/1/05	1230	2/16/05	1130
2/16/05	1200	3/3/05	1230
3/3/05	1300	3/21/05	1400
3/21/05	1400	4/12/05	0830
4/11/05	1300	4/27/05	0930
4/26/05	1030	5/10/05	1000
5/10/05	0900	6/7/05	1000
6/8/05	1200	6/21/05	0900
6/20/05	1430	7/12/05	1100
7/11/05	1400	7/27/05	0930
7/26/05	1000	8/9/05	0830
8/8/05	1200	8/24/05	1000
8/23/05	1200	9/7/05	1030
9/6/05	1130	9/21/05	0800
9/20/05	1330	10/7/05	0900
10/4/05	1230	10/27/05	0800
10/25/05	1330	11/8/05	0930
11/7/05	1000	11/22/05	1500
11/22/05	1430	12/13/05	1300
12/8/05	1430	12/21/05	1200
12/21/05	1430	1/3/06	1130
Hunt Dock			
12/20/04	1200	1/6/05	1000
1/6/05	1230	2/1/05	1300
2/1/05	1330	2/16/05	1330
2/16/05	1400	3/4/05	1000
3/4/05	1030	3/24/05	1130
3/24/05	1230	4/13/05	1130
4/12/05	1300	4/28/05	0930
4/27/05	1500	5/10/05	1030
5/10/05	1000	6/8/05	1230
6/8/05	1300	6/22/05	0930
6/21/05	1300	7/14/05	0830
7/13/05	1330	7/28/05	0930
7/27/05	1300	8/10/05	0830
8/8/05	1300	8/26/05	0830
8/25/05	1300	9/8/05	0930
9/7/05	1330	9/22/05	0800

9/21/05	1330	10/11/05	0800
10/7/05	1430	10/28/05	0900
10/27/05	1400	11/9/05	0930
11/8/05	1430	11/22/05	0900
11/21/05	1300	12/8/05	1200
12/7/05	1230	12/21/05	1430
12/21/05	1530	1/5/06	0930

Lower Duplin

12/20/04	1230	1/6/05	1230
1/6/05	1300	2/1/05	1300
2/1/05	1230	2/16/05	1400
2/16/05	1230	3/3/05	1130
3/3/05	1130	3/22/05	1100
3/22/05	1130	4/12/05	0900
4/11/05	1330	4/27/05	0930
4/26/05	1200	5/10/05	0930
5/10/05	1000	6/7/05	1430
6/7/05	1430	6/21/05	1000
6/20/05	1600	7/13/05	0930
7/11/05	1100	7/28/05	0830
7/27/05	1300	8/9/05	0830
8/8/05	1200	8/24/05	0830
8/23/05	1200	9/7/05	0900
9/06/05	1130	9/21/05	0730
9/20/05	1230	10/05	0730
10/4/05	1300	10/27/05	0800
10/25/05	1300	11/8/05	1000
11/7/05	1500	11/28/05	0800
11/22/05	1430	12/7/05	0900
12/6/05	1500	12/21/05	1330
12/21/05	1500	1/4/06	1100

7) Distribution

According to the Ocean and Coastal Resource Management Data Dissemination Policy for the NERRS System-Wide Monitoring Program, NOAA/ERD retains the right to analyze, synthesize and publish summaries of the NERRS System-Wide Monitoring Program data. The PI retains the right to be fully credited for having collected and processed the data. Following academic courtesy standards, the PI and NERR site where the data were collected will be contacted and fully acknowledged in any subsequent publications in which any part of the data are used. Manuscripts resulting from the NOAA/OCRM supported research that is produced for publication in open literature, including refereed scientific journals will acknowledge that the research was conducted under an award from the Estuarine Reserves Division, Office of Ocean and Coastal Resource Management, national Ocean Service, National Oceanic and Atmospheric

Administration. The data set enclosed within this package/transmission is only as good as the quality assurance and quality control procedures outlined by the enclosed metadata reporting statement. The user bears all responsibility for its subsequent use/misuse in any further analyses or comparisons. The Federal government does not assume liability to the Recipient of third persons, nor will the Federal government reimburse or indemnify the Recipient for its liability due to any losses resulting in any way from the use of this data.

NERR water quality data and metadata can be obtained from the Research Coordinator at the individual NERR site (please see Section 1 Principal investigators and contact persons), from the Data Manager at the Centralized Data Management Office (please see personnel directory under the general information link on the CDMO home page) and online at the CDMO home page <http://cdmo.baruch.sc.edu>. Data are available in text tab-delimited format, Microsoft Excel spreadsheet format and comma-delimited format.

8) Associated Researchers and Projects

Sapelo Island has a long history of maintaining research. In 1953, the University of Georgia Marine Institute (UGAMI) was formed and the island became a working laboratory for many. The research continues today with SAP NERR and UGAMI creating a unique partnership with much of the current research being done facilitated by SAP NERR and UGAMI together. Given UGAMI's long history on Sapelo, a bibliographic list of over 800 articles of current and previous research can be found on the UGAMI website: <http://www.uga.edu/ugami> and on the Sapelo Island NERR site: <http://www.sapelonerr.org>.

9) Sensor specifications:

YSI 6600 EDS datalogger

Parameter: Temperature
Units: Celsius (C)
Sensor Type: Thermistor
Model #: 6560
Range: -5 to 45 °C
Accuracy: +/-0.15 °C
Resolution: 0.01 °C

Parameter: Conductivity
Units: milli-Siemens per cm (mS/cm)
Sensor Type: 4-electrode cell with autoranging
Model #: 6560
Range: 0 to 100 mS/cm
Accuracy: +/-0.5% of reading + 0.001 mS/cm
Resolution: 0.001 mS/cm to 0.1 mS/cm (range dependent)

Parameter: Salinity
Units: parts per thousand (ppt)
Sensor Type: Calculated from conductivity and temperature
Range: 0 to 70 ppt
Accuracy: +/- 1.0% of reading or 0.1 ppt, whichever is greater
Resolution: 0.01 ppt

Parameter: Dissolved Oxygen % saturation
Units: percent air saturation (%)
Sensor Type: Rapid Pulse – Clark type, polarographic
Model #: 6562
Range: 0 to 500 % air saturation
Accuracy: 0-200 % air saturation, +/- 2 % of the reading or 2 % air saturation, whichever is greater; 200-500 % air saturation, +/- 6 % of the reading
Resolution: 0.1 % air saturation

Parameter: Dissolved Oxygen mg/L (Calculated from % air saturation, temperature and salinity)
Units: milligrams per Liter (mg/L)
Sensor Type: Rapid Pulse – Clark type, polarographic
Model #: 6562
Range: 0 to 50 mg/L
Accuracy: 0 to 20 mg/L, +/- 2 % of the reading or 0.2 mg/L, whichever is greater; 20 to 50 mg/L, +/- 6 % of the reading
Resolution: 0.01 mg/L

Parameter: Non-Vented Level – Shallow (Depth)
Units: feet or meters (ft or m)
Sensor Type: Stainless steel strain gauge
Range: 0 to 30 ft (9.1 m)
Accuracy: +/- 0.06 ft (0.018 m)
Resolution: 0.001 ft (0.001 m)

Parameter: pH
Units: units
Sensor Type: Glass combination electrode
Model #: 6561
Range: 0 to 14 units
Accuracy: +/- 0.2 units
Resolution: 0.01 units

Parameter: Turbidity
Units: nephelometric turbidity units (NTU)
Sensor Type: Optical, 90 ° scatter, with mechanical cleaning
Model #: 6136
Range: 0 to 1000 NTU

Accuracy: +/- 5 % reading or 2 NTU (whichever is greater)
Resolution: 0.1 NTU

Dissolved Oxygen Qualifier: The reliability of the dissolved oxygen (DO) data after 96 hours post-deployment for non-EDS (Extended Deployment System) data sondes may be problematic due to fouling which forms on the DO probe membrane during some deployments (Wenner et al. 200*). Many reserves have upgraded to YSI 6600 EDS data sondes, which increase DO accuracy and longevity by reducing the environmental effects of fouling. The user is therefore advised to consult the metadata and to exercise caution when utilizing the DO data beyond the initial 96-hour time period. However, this potential drift is not always problematic for some uses of the data, i.e. periodicity analysis. It should be noted that the amount of fouling is site specific and that not all data are affected. The Research Coordinator at the specific NERR site should be contacted concerning the reliability of the DO data because of the site and seasonal variation in the fouling of the DO sensor. All sondes used at SAP NERR in 2005 were EDS models.

Depth Qualifier: The NERRS System-Wide Monitoring Program utilizes YSI data sondes that can be equipped with either depth or water level sensors. Both sensors measure water depth, but by convention, level sensors refer to atmospherically vented measurements and depth refers to non-vented measurements. Standard calibration protocols for the non-vented sensor use the atmosphere pressure at the time of calibration. Therefore, changes in atmospheric pressure between calibrations appear as changes in water depth. The error is equal to approximately 1.03 cm for every 1millibar change in atmospheric pressure. This error is eliminated for level sensors because they are vented to the atmosphere throughout the deployment time interval. If proper atmospheric pressure data is available, non-vented sensor depth measurements can be corrected for deployments between calibrations. Readings for both vented and non-vented sensors are automatically compensated for water density changes due to variations in temperature and salinity. The Research Coordinator at the specific NERR site should be contacted in order to obtain information regarding atmospheric pressure data availability. All sensors used at SAP NERR in 2005 were non-vented models.

10) Coded variable definitions

Sampling Station:	Sampling Site Code:	Station Code:
Lower Duplin	LD	sapldwq
Hunt Dock	HD	saphdwq
Dean Creek	DC	sapdcwq
Cabretta Creek	CA	sapcawq

11) Anomalous/Suspect

There were several instances at this NERR site where small negative turbidity values (-0001 and -0002) were recorded. Because turbidity has a range of accuracy of +/-2 NTU, the technician did not edit or deleted these values in any way. These occurrences are not listed in detail in this documentation.

There were also several deployments scattered throughout the different sample sites where turbidity readings showed very little or no fluctuation. However, this NERR site has demonstrated long periods of unusually clear water depending on rain, tides, and temperature in the past. As long as post-deployment readings were reasonable, these periods of little or no fluctuation were retained in the dataset, but they should be considered suspect.

Hunt Dock

Negative turbidity

The following are negative turbidity values which are less than -2, but still close to zero, and may be considered zero or near zero turbidity conditions. Slight calibration errors and sensor fouling due to marine growth are probable causes for the anomalous values.

<u>DATE</u>	<u>TIME</u>	<u>NTU</u>
01/01/2005	00:00	-0007
01/01/2005	00:30	-0007
01/01/2005	01:00	-0006
01/01/2005	01:30	-0007
01/01/2005	02:00	-0007
01/01/2005	02:30	-0007
01/01/2005	03:00	-0007
01/01/2005	03:30	-0007
01/01/2005	04:00	-0006
01/01/2005	04:30	-0007
01/01/2005	05:00	-0007
01/01/2005	05:30	-0007
01/01/2005	06:00	-0006
01/01/2005	06:30	-0007
01/01/2005	07:00	-0007
01/01/2005	07:30	-0007
01/01/2005	08:00	-0003
01/01/2005	08:30	-0007
01/01/2005	09:00	-0007
01/01/2005	09:30	-0007
01/01/2005	10:00	-0007
01/01/2005	12:30	-0004
01/01/2005	13:00	-0006
01/01/2005	13:30	-0006
01/01/2005	14:00	-0006
01/01/2005	14:30	-0006
01/01/2005	15:00	-0006
01/01/2005	15:30	-0006
01/01/2005	16:00	-0006

01/01/2005	16:30	-0005
01/01/2005	17:30	-0005
01/01/2005	18:00	-0003
01/01/2005	18:30	-0006
01/01/2005	19:00	-0006
01/01/2005	19:30	-0006
01/01/2005	20:00	-0007
01/01/2005	20:30	-0007
01/01/2005	21:00	-0007
01/01/2005	21:30	-0007
01/01/2005	22:00	-0006
01/01/2005	22:30	-0007
01/01/2005	23:00	-0007
01/01/2005	23:30	-0007
01/02/2005	00:00	-0007
01/02/2005	00:30	-0007
01/02/2005	01:00	-0007
01/02/2005	01:30	-0007
01/02/2005	02:00	-0007
01/02/2005	02:30	-0007
01/02/2005	03:00	-0007
01/02/2005	03:30	-0007
01/02/2005	04:00	-0007
01/02/2005	04:30	-0007
01/02/2005	05:00	-0007
01/02/2005	05:30	-0007
01/02/2005	06:00	-0007
01/02/2005	06:30	-0007
01/02/2005	07:00	-0007
01/02/2005	07:30	-0006
01/02/2005	08:00	-0006
01/02/2005	08:30	-0007
01/02/2005	09:00	-0003
01/02/2005	09:30	-0006
01/02/2005	10:00	-0006
01/02/2005	10:30	-0006
01/02/2005	11:00	-0007
01/02/2005	11:30	-0007
01/02/2005	12:00	-0007
01/02/2005	12:30	-0007
01/02/2005	13:00	-0007
01/02/2005	13:30	-0007
01/02/2005	14:00	-0006
01/02/2005	14:30	-0005
01/02/2005	15:00	-0005
01/02/2005	15:30	-0005

01/02/2005	16:00	-0006
01/02/2005	17:00	-0005
01/02/2005	17:30	-0006
01/02/2005	18:00	-0004
01/02/2005	18:30	-0006
01/02/2005	19:00	-0006
01/02/2005	19:30	-0005
01/02/2005	20:00	-0006
01/02/2005	20:30	-0006
01/02/2005	21:00	-0006
01/02/2005	21:30	-0006
01/02/2005	22:00	-0006
01/02/2005	22:30	-0006
01/02/2005	23:00	-0007
01/02/2005	23:30	-0007
01/03/2005	00:00	-0007
01/03/2005	00:30	-0007
01/03/2005	01:00	-0007
01/03/2005	01:30	-0007
01/03/2005	02:00	-0007
01/03/2005	02:30	-0007
01/03/2005	03:00	-0007
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12/24/2005	11:00	-0010
12/24/2005	11:30	-0010
12/24/2005	12:00	-0010
12/24/2005	12:30	-0010
12/24/2005	13:00	-0010
12/24/2005	13:30	-0011
12/24/2005	14:00	-0010
12/24/2005	14:30	-0011
12/24/2005	15:00	-0010
12/24/2005	15:30	-0010
12/24/2005	16:00	-0010
12/24/2005	16:30	-0010
12/24/2005	17:00	-0010
12/24/2005	17:30	-0010
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12/24/2005	19:00	-0010
12/24/2005	19:30	-0010
12/24/2005	20:00	-0010
12/24/2005	20:30	-0010
12/24/2005	21:00	-0010
12/24/2005	21:30	-0010

12/24/2005	22:00	-0010
12/24/2005	22:30	-0010
12/24/2005	23:00	-0010
12/24/2005	23:30	-0010
12/25/2005	00:00	-0011
12/25/2005	00:30	-0010
12/25/2005	01:00	-0010
12/25/2005	01:30	-0010
12/25/2005	02:00	-0010
12/25/2005	02:30	-0010
12/25/2005	03:00	-0010
12/25/2005	03:30	-0010
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12/25/2005	04:30	-0010
12/25/2005	05:00	-0010
12/25/2005	05:30	-0009
12/25/2005	06:00	-0010
12/25/2005	06:30	-0010
12/25/2005	07:00	-0009
12/25/2005	07:30	-0006
12/25/2005	08:00	-0004
12/25/2005	10:30	-0006
12/25/2005	11:00	-0008
12/25/2005	11:30	-0006
12/25/2005	12:00	-0008
12/25/2005	12:30	-0010
12/25/2005	13:00	-0009
12/25/2005	13:30	-0008
12/25/2005	14:00	-0009
12/25/2005	14:30	-0009
12/25/2005	15:00	-0009
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12/25/2005	20:00	-0008
12/25/2005	20:30	-0009
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12/25/2005	21:30	-0007
12/25/2005	22:00	-0007
12/25/2005	22:30	-0009

12/25/2005	23:00	-0009
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12/26/2005	00:30	-0008
12/26/2005	01:00	-0008
12/26/2005	01:30	-0010
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12/26/2005	02:30	-0010
12/26/2005	03:00	-0009
12/26/2005	03:30	-0010
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12/26/2005	04:30	-0009
12/26/2005	05:00	-0010
12/26/2005	05:30	-0009
12/26/2005	06:00	-0009
12/26/2005	06:30	-0008
12/26/2005	07:00	-0006
12/26/2005	10:00	-0004
12/26/2005	11:00	-0003
12/26/2005	12:00	-0005
12/26/2005	12:30	-0005
12/26/2005	13:00	-0006
12/26/2005	13:30	-0008
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12/26/2005	19:00	-0007
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12/26/2005	20:00	-0007
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12/26/2005	21:00	-0007
12/26/2005	21:30	-0007
12/26/2005	22:00	-0006
12/26/2005	22:30	-0007
12/26/2005	23:00	-0007
12/26/2005	23:30	-0007
12/27/2005	00:00	-0007
12/27/2005	00:30	-0007
12/27/2005	01:00	-0008

12/27/2005	01:30	-0009
12/27/2005	02:00	-0009
12/27/2005	02:30	-0008
12/27/2005	03:00	-0007
12/27/2005	03:30	-0007
12/27/2005	04:00	-0005
12/27/2005	04:30	-0006
12/27/2005	05:00	-0008
12/27/2005	05:30	-0003
12/27/2005	07:00	-0004
12/27/2005	07:30	-0004
12/27/2005	08:00	-0007
12/27/2005	08:30	-0008
12/27/2005	09:00	-0008
12/27/2005	09:30	-0008
12/27/2005	10:00	-0006
12/27/2005	11:00	-0003
12/27/2005	11:30	-0007
12/27/2005	12:00	-0008
12/27/2005	12:30	-0008
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12/28/2005	01:30	-0009
12/28/2005	02:00	-0009
12/28/2005	02:30	-0009
12/28/2005	03:00	-0009
12/28/2005	03:30	-0008

12/28/2005	04:00	-0008
12/28/2005	04:30	-0007
12/28/2005	05:00	-0006
12/28/2005	05:30	-0003
12/28/2005	06:00	-0007
12/28/2005	06:30	-0004
12/28/2005	07:00	-0003
12/28/2005	08:30	-0004
12/28/2005	09:00	-0004
12/28/2005	09:30	-0007
12/28/2005	10:30	-0007
12/28/2005	11:00	-0004
12/28/2005	12:30	-0003
12/28/2005	13:30	-0008
12/28/2005	14:00	-0009
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12/28/2005	15:00	-0009
12/28/2005	15:30	-0008
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12/28/2005	16:30	-0009
12/28/2005	17:00	-0009
12/28/2005	17:30	-0009
12/28/2005	18:00	-0008
12/28/2005	18:30	-0009
12/28/2005	19:00	-0005
12/28/2005	19:30	-0004
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12/28/2005	20:30	-0007
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12/29/2005	05:00	-0006
12/29/2005	05:30	-0004
12/29/2005	06:00	-0004
12/29/2005	07:00	-0006
12/29/2005	10:00	-0004
12/29/2005	15:30	-0004
12/29/2005	16:00	-0007
12/29/2005	16:30	-0005
12/29/2005	17:00	-0006

12/29/2005	17:30	-0006
12/29/2005	18:00	-0005
12/29/2005	18:30	-0003
12/29/2005	19:00	-0005
12/29/2005	19:30	-0006
12/29/2005	21:30	-0003
12/29/2005	22:00	-0005
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12/30/2005	01:00	-0004
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12/30/2005	02:30	-0007
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12/30/2005	17:30	-0005
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12/30/2005	18:30	-0005
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12/30/2005	22:30	-0004
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12/31/2005	00:30	-0008
12/31/2005	01:00	-0005
12/31/2005	03:00	-0008
12/31/2005	04:00	-0007
12/31/2005	04:30	-0008
12/31/2005	05:00	-0007

12/31/2005	05:30	-0005
12/31/2005	06:00	-0003
12/31/2005	13:00	-0003
12/31/2005	16:00	-0005
12/31/2005	16:30	-0005
12/31/2005	17:00	-0007
12/31/2005	17:30	-0006
12/31/2005	18:00	-0006
12/31/2005	18:30	-0004
12/31/2005	23:30	-0003

Turbidity spikes

The following turbidity spikes represent unusually high readings, which can be caused by a number of factors including, but not limited to marine growth on the sensor, extreme tides, high winds, and heavy rainfall runoff.

<u>DATE</u>	<u>TIME</u>	<u>NTU</u>
01/18/2005	22:00	1175
04/08/2005	09:00	1332
06/27/2005	13:30	2616
08/17/2005	17:30	1244
08/21/2005	08:00	2047
08/24/2005	00:30	1267
09/01/2005	12:30	1330
09/01/2005	14:30	1329
09/06/2005	08:00	1316
09/06/2005	08:30	1316
09/07/2005	10:00	1312
09/11/2005	17:30	1156
09/11/2005	18:00	1917
09/25/2005	16:30	1143
09/25/2005	20:00	3342
09/30/2005	05:00	1129
10/05/2005	20:00	3208
10/05/2005	22:30	1040
10/06/2005	01:00	2387
10/06/2005	04:30	2417
10/06/2005	08:30	2854
10/06/2005	10:30	1019
10/07/2005	07:30	1113
10/10/2005	06:30	1021
10/21/2005	10:30	1383
10/22/2005	10:30	1383
12/07/2005	03:00	1277

Negative depth:

The hunt dock site is a fairly shallow site, this combined with the fact that on the YSI 6600 sondes the depth sensor is located several inches above the other sensors so it is possible to get a negative depth reading due to low water exposure without the other sensors being affected. Other causes of a negative depth reading include calibration errors, sensor drift, and changes in atmospheric pressure from the time of calibration.

<u>DATE</u>	<u>TIME</u>	<u>m</u>
01/06/2005	11:00	-0.02
01/13/2005	16:30	-0.04
01/13/2005	17:00	-0.05
01/13/2005	18:00	-0.05
01/14/2005	05:00	-0.04
01/14/2005	06:00	-0.05
01/23/2005	00:30	-0.04
01/23/2005	01:00	-0.09
01/23/2005	01:30	-0.09
02/08/2005	01:30	-0.06
02/08/2005	02:00	-0.06
02/08/2005	02:30	-0.06
02/08/2005	14:30	-0.08
02/08/2005	15:00	-0.08
02/08/2005	15:30	-0.08
02/09/2005	02:00	-0.09
02/09/2005	02:30	-0.09
02/09/2005	03:00	-0.09
02/09/2005	03:30	-0.09
02/09/2005	04:00	-0.09
02/09/2005	14:30	-0.03
02/09/2005	15:00	-0.13
02/09/2005	15:30	-0.13
02/09/2005	16:00	-0.13
02/09/2005	16:30	-0.12
02/10/2005	02:30	-0.07
02/10/2005	03:00	-0.15
02/10/2005	03:30	-0.15
02/10/2005	04:00	-0.15
02/10/2005	04:30	-0.15
02/10/2005	05:00	-0.04
02/10/2005	15:00	-0.12
02/10/2005	15:30	-0.15
02/10/2005	16:00	-0.14
02/10/2005	16:30	-0.14
02/10/2005	17:00	-0.14
02/10/2005	17:30	-0.13

02/11/2005	03:30	-0.06
02/11/2005	04:00	-0.06
02/11/2005	04:30	-0.06
02/11/2005	05:00	-0.06
02/11/2005	16:00	-0.01
02/11/2005	16:30	-0.09
02/11/2005	17:00	-0.10
02/11/2005	17:30	-0.10
02/11/2005	18:00	-0.09
02/12/2005	04:30	-0.01
02/12/2005	05:00	-0.06
02/12/2005	05:30	-0.06
02/12/2005	06:00	-0.01
02/12/2005	17:00	-0.09
02/12/2005	17:30	-0.10
02/12/2005	18:00	-0.10
02/12/2005	18:30	-0.08
02/13/2005	18:00	-0.06
02/13/2005	18:30	-0.06
02/14/2005	18:30	-0.08
02/14/2005	19:00	-0.08
03/01/2005	05:00	-0.03
03/01/2005	05:30	-0.03
03/01/2005	16:30	-0.04
03/01/2005	19:00	-0.02
03/05/2005	23:30	-0.01
03/06/2005	22:30	-0.01
03/06/2005	23:00	-0.01
03/06/2005	23:30	-0.01
03/07/2005	00:00	-0.01
03/07/2005	11:30	-0.04
03/07/2005	12:30	-0.05
03/07/2005	23:00	-0.13
03/08/2005	01:30	-0.14
03/08/2005	11:00	-0.06
03/08/2005	11:30	-0.14
03/08/2005	15:30	-0.12
03/08/2005	23:30	-0.05
03/09/2005	02:30	-0.04
03/09/2005	13:00	-0.04
03/09/2005	15:00	-0.06
03/10/2005	01:00	-0.07
03/10/2005	03:30	-0.08
03/10/2005	13:30	-0.08
03/10/2005	16:00	-0.03
03/11/2005	02:00	-0.07

03/11/2005	04:30	-0.04
03/11/2005	14:00	-0.12
03/11/2005	17:00	-0.13
03/12/2005	02:00	-0.02
03/12/2005	02:30	-0.07
03/12/2005	05:30	-0.02
03/12/2005	14:30	-0.10
03/13/2005	03:00	-0.08
03/13/2005	06:00	-0.07
03/13/2005	15:30	-0.11
03/13/2005	18:00	-0.11
03/14/2005	04:00	-0.08
03/14/2005	04:30	-0.09
03/14/2005	06:00	-0.09
03/14/2005	16:30	-0.11
03/14/2005	17:00	-0.11
03/14/2005	17:30	-0.10
03/14/2005	18:00	-0.08
03/23/2005	00:30	-0.08
03/23/2005	12:30	-0.02
03/24/2005	00:30	-0.02
03/24/2005	01:00	-0.08
03/24/2005	01:30	-0.08
03/24/2005	02:00	-0.07
03/24/2005	02:30	-0.01
03/24/2005	13:30	-0.01
03/24/2005	14:00	-0.02
03/24/2005	14:30	-0.02
03/25/2005	01:30	-0.01
03/25/2005	02:00	-0.03
03/25/2005	02:30	-0.03
03/28/2005	15:00	-0.01
03/28/2005	15:30	-0.14
03/28/2005	17:30	-0.14
03/29/2005	04:00	-0.09
03/29/2005	05:30	-0.08
03/29/2005	06:00	-0.02
03/29/2005	16:00	-0.01
03/29/2005	16:30	-0.07
03/29/2005	17:00	-0.07
03/29/2005	17:30	-0.07
03/30/2005	05:30	-0.02
03/30/2005	06:00	-0.03
04/02/2005	09:00	-0.10
04/02/2005	09:30	-0.10
04/02/2005	10:00	-0.04

04/02/2005	19:30	-0.06
04/02/2005	21:30	-0.04
04/02/2005	22:00	-0.04
04/07/2005	13:00	-0.02
04/07/2005	14:30	-0.04
04/08/2005	01:30	-0.06
04/08/2005	02:00	-0.11
04/08/2005	03:00	-0.12
04/08/2005	13:30	-0.11
04/08/2005	15:30	-0.12
04/09/2005	02:00	-0.04
04/09/2005	02:30	-0.09
04/09/2005	03:30	-0.10
04/09/2005	14:30	-0.01
04/09/2005	15:00	-0.05
04/09/2005	15:30	-0.05
04/13/2005	11:00	-0.12
04/13/2005	11:30	-0.12
04/23/2005	00:30	-0.03
04/23/2005	01:00	-0.03
04/23/2005	01:30	-0.03
04/23/2005	12:30	-0.07
04/23/2005	13:00	-0.08
04/23/2005	13:30	-0.08
04/23/2005	14:00	-0.05
04/23/2005	14:30	-0.03
04/24/2005	01:00	-0.02
04/24/2005	03:00	-0.03
04/24/2005	12:30	-0.02
04/24/2005	15:00	-0.04
04/26/2005	15:00	-0.02
04/26/2005	15:30	-0.03
04/26/2005	16:00	-0.04
04/27/2005	04:00	-0.01
04/27/2005	05:00	-0.01
05/23/2005	02:00	-0.02
05/23/2005	13:00	-0.10
05/23/2005	13:30	-0.13
05/23/2005	14:00	-0.13
05/23/2005	14:30	-0.13
05/23/2005	15:00	-0.02
05/24/2005	01:30	-0.07
05/24/2005	02:00	-0.13
05/24/2005	02:30	-0.14
05/24/2005	03:00	-0.14
05/24/2005	03:30	-0.14

05/24/2005	14:00	-0.08
05/24/2005	14:30	-0.09
05/24/2005	15:00	-0.12
06/22/2005	13:30	-0.03
06/22/2005	14:00	-0.03
06/22/2005	14:30	-0.04
06/22/2005	15:00	-0.04
06/23/2005	02:30	-0.02
06/23/2005	03:00	-0.04
06/23/2005	04:00	-0.04
06/23/2005	16:00	-0.04
06/24/2005	03:30	-0.03
06/24/2005	04:00	-0.04
06/24/2005	04:30	-0.04
06/24/2005	16:00	-0.03
06/27/2005	06:30	-0.02
06/27/2005	07:00	-0.01
07/22/2005	03:00	-0.02
07/22/2005	05:00	-0.01
07/22/2005	15:30	-0.02
07/23/2005	04:00	-0.04
07/23/2005	16:30	-0.04
07/23/2005	17:30	-0.04
07/24/2005	06:00	-0.01
07/26/2005	07:00	-0.01
07/26/2005	07:30	-0.02
07/27/2005	07:30	-0.03
07/27/2005	08:00	-0.03
07/27/2005	08:30	-0.01
08/17/2005	11:30:00	-0.02
08/17/2005	12:00:00	-0.02
08/18/2005	01:00:00	-0.03
08/18/2005	12:30:00	-0.02
08/18/2005	13:00:00	-0.02
08/19/2005	02:00:00	-0.02
08/19/2005	14:30:00	-0.01
08/20/2005	14:30:00	-0.01
08/20/2005	15:30:00	-0.01
08/21/2005	03:00:00	-0.02
08/21/2005	04:30:00	-0.03
08/21/2005	15:00:00	-0.01
08/21/2005	15:30:00	-0.04
08/21/2005	16:00:00	-0.04
08/22/2005	03:30:00	-0.05
08/22/2005	04:00:00	-0.06
08/22/2005	05:00:00	-0.06

08/22/2005	16:30:00	-0.04
08/22/2005	17:00:00	-0.02
08/23/2005	04:30:00	-0.05
08/23/2005	05:00:00	-0.05
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09/16/2005	13:00	-0.01
09/17/2005	01:30	-0.01
09/17/2005	02:00	-0.01
09/17/2005	13:30	-0.01
09/17/2005	14:00	-0.02
09/18/2005	02:00	-0.01
09/18/2005	02:30	-0.01
09/18/2005	03:00	-0.02
09/18/2005	15:00	-0.01
11/02/2005	01:30	-0.05
11/02/2005	02:00	-0.07
11/02/2005	02:30	-0.02
11/05/2005	03:30	-0.01
11/05/2005	04:00	-0.01
11/16/2005	01:30	-0.01
11/16/2005	02:00	-0.01
11/16/2005	02:30	-0.01
11/16/2005	14:30	-0.01
11/16/2005	15:00	-0.03
11/17/2005	01:30	-0.01
11/17/2005	03:30	-0.01
11/22/2005	04:30	-0.12
11/22/2005	05:00	-0.17
11/22/2005	05:30	-0.16
11/22/2005	06:30	-0.15
11/22/2005	07:00	-0.12
11/22/2005	07:30	-0.06
12/10/2005	22:00	-0.10
12/10/2005	22:30	-0.13
12/10/2005	23:00	-0.14
12/11/2005	10:30	-0.05
12/11/2005	11:00	-0.13
12/11/2005	11:30	-0.14
12/11/2005	12:00	-0.07
12/11/2005	22:30	-0.15
12/12/2005	00:30	-0.12
12/12/2005	12:00	-0.04
12/12/2005	12:30	-0.03
12/12/2005	23:00	-0.13
12/13/2005	01:30	-0.09
12/16/2005	01:00	-0.08

12/16/2005	01:30	-0.16
12/16/2005	03:00	-0.16
12/16/2005	03:30	-0.15
12/26/2005	10:30	-0.04
12/26/2005	11:00	-0.04
12/26/2005	21:30	-0.02
12/26/2005	23:30	-0.03
12/27/2005	23:00	-0.04
12/27/2005	23:30	-0.01
12/28/2005	23:30	-0.17
12/29/2005	00:30	-0.18
12/29/2005	01:00	-0.12
12/29/2005	12:00	-0.10
12/29/2005	12:30	-0.16
12/29/2005	13:00	-0.17
12/29/2005	14:00	-0.17
12/29/2005	14:30	-0.08
12/29/2005	23:30	-0.09
12/30/2005	02:00	-0.09
12/30/2005	13:30	-0.07
12/30/2005	14:00	-0.07
12/30/2005	14:30	-0.08
12/31/2005	01:00	-0.07
12/31/2005	03:00	-0.05
12/31/2005	14:00	-0.07
12/31/2005	14:30	-0.08
12/31/2005	16:00	-0.03

DO

DO data are considered suspicious for the entire HD 10/11-10/27 deployment. Readings are markedly higher than the previous deployment and the post calibration reading was high.

Cabretta Creek

Specific Conductivity readings and all affected parameters (salinity, DO mg/L, and Depth) are suspect for the following periods. Dramatic swings in readings are possible at this site due to the impact of rain runoff and it's proximity to the ocean.

6/1 00:00 through 6/7 05:00.

11/9 09:30 through 11/21 15:00

Depth readings varied substantially for deployments at this site and tampering with the deployment tube (affecting the sonde's depth) has been an issue. Users should note the depth that other parameter's readings were taken at when making comparisons.

pH readings for the following deployments should be considered suspect, as they varied substantially from other deployments:

1/6 12:30 through 2/1 12:30
3/4 10:30 through 3/24 10:30

pH readings for the deployment beginning 6/8 @ 12:00 and ending 6/21 @ 13:00 are suspect, it appears that there was a calibration error.

The following dissolved oxygen values were negative, while these would normally be deleted the data was cycling normally with the tides and the high-end readings looked fine and the post cals were also within range. Therefore the values were considered to be near zero and the cause was left to slight calibration error and sensor drift.

DO %

<u>DATE</u>	<u>TIME</u>	<u>%</u>
10/11/2005	07:30	-000.5
10/11/2005	08:00	-000.8
10/11/2005	21:00	-000.4
10/12/2005	09:00	-001.0
10/12/2005	09:30	-001.1
10/12/2005	22:00	-000.1
10/13/2005	10:30	-000.7
10/13/2005	22:30	-000.6
10/13/2005	23:00	-001.0
10/13/2005	23:30	-001.0
10/14/2005	11:30	-000.3
10/15/2005	00:00	-000.6
10/15/2005	00:30	-000.9
10/16/2005	01:30	-000.6
10/18/2005	03:00	-000.1
10/19/2005	04:00	-000.3
10/20/2005	04:30	-000.3

DO mg/L

<u>DATE</u>	<u>TIME</u>	<u>mg/L</u>
10/11/2005	08:00	-00.1
10/12/2005	09:00	-00.1
10/12/2005	09:30	-00.1
10/13/2005	10:30	-00.1
10/13/2005	22:30	-00.1
10/13/2005	23:00	-00.1
10/13/2005	23:30	-00.1
10/15/2005	00:30	-00.1
10/16/2005	01:30	-00.1

Negative turbidity

The following are negative turbidity values which are usually very close to zero and may be considered zero or near zero turbidity conditions. Slight calibration errors and sensor fouling due to marine growth are probable causes for the anomalous values.

<u>DATE</u>	<u>TIME</u>	<u>NTU</u>
01/01/2005	00:00	-0004
01/01/2005	00:30	-0005
01/01/2005	01:00	-0005
01/01/2005	01:30	-0005
01/01/2005	02:00	-0005
01/01/2005	02:30	-0006
01/01/2005	03:00	-0006
01/01/2005	03:30	-0006
01/01/2005	04:00	-0006
01/01/2005	04:30	-0007
01/01/2005	05:00	-0007
01/01/2005	05:30	-0007
01/01/2005	06:00	-0006
01/01/2005	06:30	-0006
01/01/2005	07:00	-0006
01/01/2005	07:30	-0005
01/01/2005	08:30	-0003
01/01/2005	14:30	-0004
01/01/2005	15:00	-0005
01/01/2005	15:30	-0006
01/01/2005	16:00	-0006
01/01/2005	16:30	-0007
01/01/2005	17:00	-0007
01/01/2005	17:30	-0007
01/01/2005	18:00	-0007
01/01/2005	18:30	-0007
01/01/2005	19:00	-0005
01/01/2005	19:30	-0005
01/02/2005	02:30	-0003
01/02/2005	03:00	-0004
01/02/2005	03:30	-0005
01/02/2005	04:00	-0005
01/02/2005	04:30	-0006
01/02/2005	05:00	-0006
01/02/2005	05:30	-0006
01/02/2005	06:00	-0007
01/02/2005	06:30	-0006
01/02/2005	07:00	-0005
01/02/2005	07:30	-0006
01/02/2005	08:00	-0005
01/02/2005	08:30	-0003

01/02/2005	15:00	-0003
01/02/2005	15:30	-0004
01/02/2005	16:00	-0005
01/02/2005	16:30	-0005
01/02/2005	17:00	-0006
01/02/2005	17:30	-0006
01/02/2005	18:00	-0006
01/02/2005	18:30	-0007
01/02/2005	19:00	-0007
01/02/2005	19:30	-0006
01/02/2005	20:00	-0005
01/02/2005	20:30	-0004
01/03/2005	01:00	-0003
01/03/2005	01:30	-0004
01/03/2005	02:00	-0004
01/03/2005	02:30	-0004
01/03/2005	03:00	-0004
01/03/2005	03:30	-0005
01/03/2005	04:00	-0005
01/03/2005	04:30	-0006
01/03/2005	05:00	-0006
01/03/2005	05:30	-0006
01/03/2005	06:00	-0007
01/03/2005	06:30	-0007
01/03/2005	07:00	-0007
01/03/2005	07:30	-0006
01/03/2005	08:00	-0006
01/03/2005	08:30	-0006
01/03/2005	09:00	-0005
01/03/2005	09:30	-0005
01/03/2005	10:00	-0005
01/03/2005	10:30	-0003
01/03/2005	15:00	-0003
01/03/2005	15:30	-0005
01/03/2005	16:00	-0006
01/03/2005	16:30	-0006
01/03/2005	17:00	-0006
01/03/2005	17:30	-0007
01/03/2005	18:00	-0006
01/03/2005	18:30	-0007
01/03/2005	19:00	-0007
01/03/2005	19:30	-0007
01/03/2005	20:00	-0007
01/03/2005	20:30	-0006
01/03/2005	21:00	-0006
01/03/2005	21:30	-0005

01/03/2005	22:00	-0005
01/03/2005	22:30	-0004
01/03/2005	23:00	-0004
01/04/2005	04:00	-0003
01/04/2005	04:30	-0005
01/04/2005	05:00	-0006
01/04/2005	05:30	-0006
01/04/2005	06:00	-0007
01/04/2005	06:30	-0006
01/04/2005	07:00	-0007
01/04/2005	07:30	-0006
01/04/2005	08:00	-0007
01/04/2005	08:30	-0007
01/04/2005	09:00	-0006
01/04/2005	09:30	-0006
01/04/2005	10:00	-0006
01/04/2005	10:30	-0005
01/04/2005	11:00	-0003
01/04/2005	15:30	-0003
01/04/2005	16:00	-0004
01/04/2005	16:30	-0005
01/04/2005	17:00	-0006
01/04/2005	17:30	-0006
01/04/2005	18:00	-0007
01/04/2005	18:30	-0007
01/04/2005	19:00	-0007
01/04/2005	19:30	-0007
01/04/2005	20:00	-0007
01/04/2005	20:30	-0007
01/04/2005	21:00	-0006
01/04/2005	21:30	-0006
01/04/2005	22:00	-0006
01/04/2005	22:30	-0005
01/04/2005	23:00	-0005
01/04/2005	23:30	-0003
01/05/2005	00:00	-0004
01/05/2005	03:00	-0003
01/05/2005	03:30	-0003
01/05/2005	04:00	-0003
01/05/2005	04:30	-0003
01/05/2005	05:00	-0003
01/05/2005	05:30	-0004
01/05/2005	06:00	-0005
01/05/2005	06:30	-0005
01/05/2005	07:00	-0006
01/05/2005	07:30	-0006

01/05/2005	08:00	-0006
01/05/2005	08:30	-0007
01/05/2005	09:00	-0007
01/05/2005	09:30	-0007
01/05/2005	10:00	-0007
01/05/2005	10:30	-0006
01/05/2005	11:00	-0006
01/05/2005	11:30	-0005
01/05/2005	12:00	-0003
01/05/2005	12:30	-0003
01/05/2005	15:30	-0003
01/05/2005	16:00	-0004
01/05/2005	16:30	-0003
01/05/2005	17:00	-0005
01/05/2005	17:30	-0006
01/05/2005	18:00	-0006
01/05/2005	18:30	-0006
01/05/2005	19:00	-0006
01/05/2005	19:30	-0007
01/05/2005	20:00	-0007
01/05/2005	20:30	-0007
01/05/2005	21:00	-0007
01/05/2005	21:30	-0007
01/05/2005	22:00	-0007
01/05/2005	22:30	-0006
01/05/2005	23:00	-0005
01/06/2005	07:30	-0003
01/06/2005	08:00	-0004
01/06/2005	08:30	-0005
01/06/2005	09:00	-0005
01/06/2005	09:30	-0005
01/06/2005	10:00	-0005
01/06/2005	10:30	-0006
01/06/2005	11:00	-0006
01/06/2005	11:30	-0005

Turbidity spikes

The following turbidity spikes represent unusually high readings, which can be caused by a number of factors including, but not limited to marine growth on the sensor, extreme tides, high winds, and heavy rainfall runoff.

<u>DATE</u>	<u>TIME</u>	<u>NTU</u>
03/28/2005	20:00	1679
04/03/2005	07:00	1297
04/07/2005	08:30	1479

04/20/2005	21:00	1152
06/17/2005	17:30	1143
06/17/2005	20:00	1154
06/17/2005	22:00	1156
06/18/2005	14:00	1143
07/20/2005	16:00	1415
08/16/2005	06:00	1874
08/22/2005	04:00	1409
08/22/2005	17:00	1212
08/22/2005	19:30	1062
08/23/2005	07:30	1059
08/23/2005	16:30	1005
08/23/2005	21:00	1104
08/24/2005	10:30	1148
08/24/2005	13:00	1011
08/24/2005	20:30	2668
08/24/2005	23:30	1007
08/25/2005	03:00	1014
08/25/2005	10:30	1354
08/25/2005	13:30	1247
08/25/2005	20:30	1039
08/26/2005	08:30	1021
08/23/2005	07:30	1059
08/23/2005	16:30	1005
08/23/2005	21:00	1104
08/24/2005	10:30	1148
08/24/2005	13:00	1011
08/24/2005	20:30	2668
08/24/2005	23:30	1007
08/25/2005	03:00	1014
08/25/2005	10:30	1354
08/25/2005	13:30	1247
08/25/2005	20:30	1039
08/26/2005	08:30	1021
09/30/2005	02:30	2044
10/06/2005	10:00	1428
10/06/2005	12:00	1207
10/06/2005	18:30	2614
10/06/2005	19:30	2188
10/06/2005	21:30	1979
10/07/2005	00:00	2589
10/07/2005	02:30	2362
10/07/2005	08:30	2546
10/07/2005	11:00	2586
10/07/2005	15:30	1074
10/07/2005	22:00	2587

10/08/2005	00:30	1726
10/08/2005	02:00	1845
10/09/2005	00:00	1789
10/10/2005	11:30	2210
10/10/2005	17:30	1088
10/10/2005	23:30	1904
10/11/2005	02:30	1270
10/11/2005	05:00	1119
10/13/2005	20:00	1143
10/13/2005	22:00	1149
10/14/2005	08:30	1143
10/15/2005	15:00	1126
10/15/2005	23:30	1150
10/17/2005	21:00	1152
10/23/2005	10:30	1145
11/10/2005	20:00	2327

Lower Duplin:

Temperature data, and as a result all other parameters, are suspect for the 3/3 12:00 through 3/22 11:00 deployment. There appears to be a problem with the temperature probe, readings for the entire deployment are substantially lower than expected relative to the surrounding deployments and there is a significant discrepancy between the readings and field data.

Specific Conductivity data, and as a result the affected parameters Salinity, DO mg/L and Depth, are suspect for the period of 6/1 20:00 through 6/7 14:30 (end of deployment). The readings began falling on 6/1 and did not return to normal during the deployment, possible fouling.

Specific Conductivity data, and as a result the affected parameters Salinity, DO mg/L and Depth, are suspect for the 10/27 08:30 through 11/8 10:00 deployment. The readings climbed dramatically at the beginning of the deployment, and then fell and remained lower than expected during the deployment, possible fouling or calibration error.

pH data are suspect for the 2/16 14:30 through 3/22 11:00 deployment. Readings were elevated.

pH data are suspect for the 9/13 00:00 through 9/20 12:30 deployment, possible fouling.

Negative Dissolved oxygen

The following dissolved oxygen values were negative, while these would normally be deleted the data was cycling normally with the tides and the high-end readings looked fine and the post cals were also within range. Therefore the values were considered to be near zero and the cause was left to slight calibration error and sensor drift.

DO mg/L

<u>DATE</u>	<u>TIME</u>	<u>mg/L</u>
08/02/2005	00:30	-00.2
08/02/2005	13:00	-00.1
08/02/2005	13:30	-00.1
08/09/2005	05:00	-00.2

DO%

<u>DATE</u>	<u>TIME</u>	<u>%</u>
08/02/2005	00:30	-003.2
08/02/2005	13:00	-001.9
08/02/2005	13:30	-001.2
08/09/2005	05:00	-002.3

Negative turbidity

The following are negative turbidity values which are usually very close to zero and may be considered zero or near zero turbidity conditions. Slight calibration errors and sensor fouling due to marine growth are probable causes for the anomalous values.

<u>DATE</u>	<u>TIME</u>	<u>NTU</u>
01/01/2005	00:00	-0008
01/01/2005	00:30	-0010
01/01/2005	01:00	-0011
01/01/2005	01:30	-0011
01/01/2005	02:00	-0011
01/01/2005	02:30	-0011
01/01/2005	03:00	-0013
01/01/2005	03:30	-0013
01/01/2005	04:00	-0014
01/01/2005	04:30	-0015
01/01/2005	05:00	-0015
01/01/2005	05:30	-0014
01/01/2005	06:00	-0014
01/01/2005	06:30	-0013
01/01/2005	07:00	-0010
01/01/2005	08:30	-0009
01/01/2005	10:30	-0004
01/01/2005	12:00	-0008
01/01/2005	12:30	-0007
01/01/2005	13:00	-0006
01/01/2005	13:30	-0004
01/01/2005	16:00	-0009
01/01/2005	16:30	-0009
01/01/2005	17:00	-0012
01/01/2005	17:30	-0015
01/01/2005	18:00	-0015

01/01/2005	18:30	-0013
01/01/2005	19:00	-0003
01/01/2005	19:30	-0007
01/01/2005	22:30	-0003
01/01/2005	23:00	-0007
01/02/2005	00:00	-0008
01/02/2005	00:30	-0009
01/02/2005	01:00	-0010
01/02/2005	01:30	-0011
01/02/2005	02:00	-0011
01/02/2005	02:30	-0011
01/02/2005	03:00	-0012
01/02/2005	03:30	-0012
01/02/2005	04:00	-0011
01/02/2005	04:30	-0014
01/02/2005	05:00	-0014
01/02/2005	05:30	-0015
01/02/2005	06:00	-0015
01/02/2005	06:30	-0014
01/02/2005	07:00	-0013
01/02/2005	07:30	-0014
01/02/2005	08:00	-0011
01/02/2005	08:30	-0010
01/02/2005	09:00	-0009
01/02/2005	09:30	-0009
01/02/2005	10:00	-0007
01/02/2005	11:00	-0005
01/02/2005	11:30	-0011
01/02/2005	12:00	-0013
01/02/2005	13:30	-0008
01/02/2005	14:00	-0006
01/02/2005	16:00	-0005
01/02/2005	16:30	-0009
01/02/2005	17:00	-0012
01/02/2005	17:30	-0014
01/02/2005	18:00	-0015
01/02/2005	18:30	-0014
01/02/2005	19:00	-0011
01/02/2005	19:30	-0011
01/02/2005	20:00	-0005
01/02/2005	20:30	-0009
01/02/2005	21:30	-0006
01/02/2005	22:00	-0009
01/02/2005	23:30	-0009
01/03/2005	00:00	-0012
01/03/2005	01:00	-0007

01/03/2005	01:30	-0011
01/03/2005	02:00	-0012
01/03/2005	02:30	-0012
01/03/2005	03:00	-0010
01/03/2005	03:30	-0011
01/03/2005	04:00	-0010
01/03/2005	04:30	-0010
01/03/2005	05:00	-0013
01/03/2005	05:30	-0015
01/03/2005	06:00	-0015
01/03/2005	06:30	-0016
01/03/2005	07:00	-0016
01/03/2005	07:30	-0014
01/03/2005	08:00	-0014
01/03/2005	08:30	-0013
01/03/2005	09:00	-0014
01/03/2005	09:30	-0006
01/03/2005	10:00	-0007
01/03/2005	10:30	-0010
01/03/2005	12:00	-0007
01/03/2005	12:30	-0012
01/03/2005	13:30	-0007
01/03/2005	14:00	-0009
01/03/2005	14:30	-0008
01/03/2005	16:30	-0006
01/03/2005	17:00	-0011
01/03/2005	17:30	-0013
01/03/2005	18:00	-0014
01/03/2005	18:30	-0012
01/03/2005	19:00	-0014
01/03/2005	19:30	-0015
01/03/2005	20:00	-0015
01/03/2005	20:30	-0013
01/03/2005	21:00	-0011
01/03/2005	21:30	-0010
01/03/2005	22:30	-0010
01/03/2005	23:00	-0012
01/04/2005	00:00	-0008
01/04/2005	00:30	-0011
01/04/2005	01:00	-0012
01/04/2005	02:00	-0004
01/04/2005	02:30	-0010
01/04/2005	03:00	-0011
01/04/2005	03:30	-0011
01/04/2005	04:00	-0010
01/04/2005	04:30	-0005

01/04/2005	05:00	-0011
01/04/2005	05:30	-0012
01/04/2005	06:00	-0012
01/04/2005	06:30	-0014
01/04/2005	07:00	-0015
01/04/2005	07:30	-0015
01/04/2005	08:00	-0012
01/04/2005	08:30	-0015
01/04/2005	09:00	-0013
01/04/2005	09:30	-0015
01/04/2005	10:00	-0013
01/04/2005	11:30	-0010
01/04/2005	13:00	-0007
01/04/2005	13:30	-0010
01/04/2005	14:30	-0008
01/04/2005	15:00	-0008
01/04/2005	15:30	-0006
01/04/2005	17:30	-0009
01/04/2005	18:00	-0012
01/04/2005	18:30	-0013
01/04/2005	19:00	-0014
01/04/2005	19:30	-0015
01/04/2005	20:00	-0016
01/04/2005	20:30	-0016
01/04/2005	21:00	-0015
01/04/2005	21:30	-0015
01/04/2005	22:00	-0013
01/04/2005	22:30	-0004
01/04/2005	23:30	-0011
01/05/2005	00:00	-0010
01/05/2005	01:30	-0008
01/05/2005	02:00	-0005
01/05/2005	03:30	-0012
01/05/2005	04:00	-0011
01/05/2005	04:30	-0009
01/05/2005	05:00	-0005
01/05/2005	06:00	-0003
01/05/2005	06:30	-0004
01/05/2005	07:00	-0008
01/05/2005	07:30	-0012
01/05/2005	08:00	-0013
01/05/2005	08:30	-0014
01/05/2005	09:00	-0014
01/05/2005	09:30	-0016
01/05/2005	10:00	-0013
01/05/2005	10:30	-0014

01/05/2005	11:00	-0012
01/05/2005	12:30	-0006
01/05/2005	14:30	-0011
01/05/2005	15:30	-0007
01/05/2005	16:00	-0007
01/05/2005	16:30	-0004
01/05/2005	17:30	-0004
01/05/2005	18:00	-0011
01/05/2005	18:30	-0011
01/05/2005	19:00	-0014
01/05/2005	19:30	-0016
01/05/2005	20:00	-0015
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12/24/2005	15:00	-0003
12/24/2005	16:00	-0003
12/24/2005	17:00	-0004

12/24/2005	17:30	-0005
12/24/2005	18:00	-0007
12/24/2005	18:30	-0008
12/24/2005	19:00	-0008
12/24/2005	19:30	-0008
12/24/2005	20:00	-0008
12/24/2005	20:30	-0009
12/24/2005	21:00	-0005
12/24/2005	21:30	-0005
12/24/2005	22:00	-0005
12/24/2005	22:30	-0005
12/25/2005	05:00	-0004
12/25/2005	09:00	-0007
12/25/2005	09:30	-0004
12/25/2005	18:00	-0003
12/25/2005	18:30	-0005
12/25/2005	19:00	-0006
12/25/2005	19:30	-0006
12/25/2005	20:00	-0007
12/25/2005	20:30	-0007
12/25/2005	21:00	-0006
12/25/2005	21:30	-0006
12/26/2005	01:00	-0003
12/26/2005	06:00	-0003
12/26/2005	16:00	-0003
12/26/2005	19:00	-0003
12/26/2005	19:30	-0003
12/26/2005	20:00	-0004
12/26/2005	20:30	-0004
12/26/2005	21:00	-0004
12/26/2005	21:30	-0005
12/26/2005	22:00	-0006
12/26/2005	22:30	-0007
12/26/2005	23:00	-0007
12/26/2005	23:30	-0004
12/27/2005	11:00	-0005
12/27/2005	18:00	-0003
12/27/2005	19:00	-0003
12/27/2005	19:30	-0003
12/27/2005	20:00	-0003
12/27/2005	21:00	-0004
12/27/2005	21:30	-0005
12/27/2005	22:00	-0007
12/27/2005	22:30	-0008
12/27/2005	23:00	-0008
12/27/2005	23:30	-0006

12/28/2005	00:00	-0005
12/28/2005	00:30	-0003
12/28/2005	11:30	-0005
12/28/2005	22:30	-0003
12/28/2005	23:00	-0004
12/29/2005	00:00	-0005
12/30/2005	00:30	-0003
12/30/2005	01:00	-0004
12/30/2005	01:30	-0004

Turbidity spikes

The following turbidity spikes represent unusually high readings, which can be caused by a number of factors including, but not limited to marine growth on the sensor, extreme tides, high winds, and heavy rainfall runoff.

<u>DATE</u>	<u>TIME</u>	<u>NTU</u>
06/08/2005	19:00	1722
06/09/2005	08:30	1420
06/12/2005	22:00	1557
06/13/2005	22:00	1408
06/13/2005	23:30	1590
06/14/2005	04:00	1695
06/17/2005	10:30	1874
06/17/2005	15:00	1156
06/17/2005	16:30	1550
06/17/2005	21:30	1410
06/17/2005	23:00	1522
06/18/2005	02:00	1375
06/19/2005	00:30	1288
06/19/2005	02:00	1194
06/19/2005	03:30	1085
06/19/2005	05:00	1785
06/19/2005	11:00	1362
06/20/2005	02:00	1456
06/20/2005	03:30	1433
06/20/2005	09:30	1110
06/20/2005	11:30	2026
06/20/2005	13:00	3229
06/20/2005	14:00	1110
06/22/2005	17:00	1324.2
06/23/2005	22:30	1324.6
06/27/2005	00:00	1323.9
07/11/2005	12:30	1242
07/11/2005	14:00	1265
07/11/2005	15:00	1249
07/12/2005	02:00	1263

07/18/2005	06:30	1272
07/18/2005	18:00	1009
07/18/2005	21:00	1279
07/19/2005	02:00	1277
07/19/2005	09:30	1280
07/19/2005	22:30	1281
07/20/2005	07:30	1276
07/20/2005	09:30	1278
07/20/2005	10:30	1281
07/20/2005	12:00	1282
07/20/2005	14:30	1264
07/20/2005	17:30	1283
07/20/2005	21:30	1279
07/21/2005	01:00	1277
07/21/2005	08:00	1032
07/21/2005	19:00	1280
07/22/2005	02:30	1239
07/22/2005	04:00	1274
07/22/2005	04:30	1279
07/22/2005	07:00	1072
07/22/2005	15:00	1276
07/22/2005	15:30	1018
07/22/2005	17:00	1280
07/22/2005	17:30	1249
07/22/2005	20:00	1066
07/22/2005	21:30	1275
07/22/2005	22:00	1274
07/23/2005	00:30	1251
07/23/2005	03:00	1172
07/23/2005	05:00	1277
07/23/2005	05:30	1264
07/23/2005	07:00	1277
07/23/2005	07:30	1124
07/23/2005	09:00	1188
07/23/2005	14:30	1287
07/23/2005	15:00	1287
07/23/2005	17:00	1283
07/23/2005	20:30	1271
07/23/2005	21:00	1259
07/24/2005	00:00	1042
07/24/2005	00:30	1040
07/24/2005	05:00	1281
07/24/2005	05:30	1223
07/24/2005	07:00	1218
07/24/2005	09:30	1262
07/24/2005	10:00	1055

07/24/2005	11:00	1247
07/24/2005	11:30	1263
07/24/2005	13:30	1155
07/24/2005	17:00	1289
07/24/2005	17:30	1250
07/24/2005	19:00	1287
07/24/2005	21:00	1281
07/25/2005	00:00	1219
07/25/2005	04:30	1174
07/25/2005	05:00	1012
07/25/2005	06:30	1276
07/25/2005	07:00	1277
07/25/2005	08:00	1278
07/25/2005	08:30	1277
07/25/2005	10:00	1275
07/25/2005	10:30	1261
07/25/2005	12:00	1274
07/25/2005	13:00	1018
07/25/2005	17:00	1059
07/25/2005	19:00	1287
07/25/2005	19:30	1286
07/25/2005	21:00	1283
07/25/2005	21:30	1281
07/25/2005	22:00	1280
07/25/2005	23:30	1272
07/26/2005	05:00	1280
07/26/2005	07:00	1032
07/26/2005	09:00	1277
07/26/2005	11:00	1153
07/26/2005	11:30	1266
07/26/2005	13:00	1161
07/26/2005	13:30	1172
07/26/2005	14:00	1191
07/26/2005	14:30	1282
07/26/2005	15:00	1190
07/26/2005	17:00	1287
07/26/2005	19:00	1288
07/26/2005	21:00	1261
07/26/2005	22:30	1277
07/26/2005	23:30	1157
07/27/2005	00:00	1183
07/27/2005	01:30	1038
07/27/2005	05:00	1193
07/27/2005	06:00	1055
07/27/2005	09:30	1277
07/27/2005	10:30	1170

07/27/2005	13:30	1026
07/27/2005	14:00	1275
07/27/2005	15:30	1172
07/27/2005	16:30	1244
07/27/2005	20:30	1252
07/27/2005	22:00	1016
08/05/2005	19:30	1884
08/08/2005	00:00	3055
08/13/2005	23:00	1166
08/14/2005	11:30	1168
08/15/2005	06:30	1167
08/17/2005	04:30	1172
08/17/2005	22:00	1177
08/18/2005	15:00	1178
08/19/2005	04:00	1072
08/19/2005	10:30	1173
08/20/2005	06:30	1167
08/20/2005	08:00	1063
08/20/2005	17:00	1169
08/20/2005	18:30	1176
08/21/2005	05:00	1170
08/21/2005	06:00	1149
08/21/2005	07:00	1088
08/21/2005	20:30	1168
08/22/2005	07:30	1161
08/31/2005	15:30	1225
08/31/2005	16:30	1107
09/02/2005	10:00	1229
09/02/2005	15:00	1233
09/05/2005	01:30	1059
09/15/2005	18:00	1321
09/16/2005	04:00	1176
09/16/2005	05:00	1123
09/16/2005	07:00	1295
09/16/2005	18:00	1194
09/16/2005	19:00	1264
09/17/2005	01:00	1147
09/17/2005	02:00	1390
09/17/2005	04:00	1223
09/17/2005	06:30	1473
09/17/2005	12:30	1090
09/17/2005	13:30	1343
09/17/2005	14:30	1315
09/17/2005	15:30	1332
09/17/2005	16:30	1144
09/17/2005	17:30	1275

09/17/2005	18:30	1128
09/17/2005	19:30	1245
09/17/2005	20:30	1497
09/17/2005	21:00	1247
09/18/2005	03:00	1179
09/18/2005	04:00	1207
09/18/2005	05:30	1114
09/18/2005	06:30	1443
09/18/2005	07:30	1218
09/18/2005	13:30	1491
09/18/2005	14:30	1040
09/18/2005	18:30	1504
09/19/2005	02:00	1437
09/19/2005	09:30	1194
09/19/2005	10:00	1110
09/19/2005	14:00	1081
09/19/2005	15:00	1082
09/19/2005	15:30	1068
09/19/2005	17:30	1124
09/19/2005	18:00	1282
09/19/2005	18:30	1158
09/19/2005	19:00	1234
09/19/2005	20:00	1508
09/19/2005	21:30	1067
09/20/2005	02:00	1209
09/20/2005	03:00	1588
09/20/2005	04:00	1270
09/20/2005	04:30	1109
09/20/2005	05:00	1286
09/20/2005	05:30	1247
09/20/2005	06:00	1681
09/20/2005	06:30	1033
09/20/2005	07:00	1687
09/20/2005	07:30	1075
09/20/2005	08:00	1457
09/20/2005	09:30	1012
09/20/2005	10:30	1364
09/20/2005	12:00	1125
09/20/2005	13:00	1171
09/20/2005	18:30	1108
09/20/2005	19:30	1130
09/20/2005	20:30	1286
09/20/2005	21:30	1107
09/20/2005	22:30	1977
09/20/2005	23:30	1351
09/21/2005	01:00	1253

09/21/2005	02:00	1151
09/21/2005	02:30	1194
09/27/2005	13:30	1216
11/09/2005	10:30	1250
11/26/2005	02:30	1198

Dean Creek:

Negative depth:

The dean creek site is a fairly shallow site, this combined with the fact that on the YSI 6600 sondes the depth sensor is located several inches above the other sensors so it is possible to get a negative depth reading due to low water exposure without the other sensors being affected. Other causes of a negative depth reading include calibration errors, sensor drift, and changes in atmospheric pressure from the time of calibration.

<u>DATE</u>	<u>TIME</u>	<u>m</u>
01/05/2005	23:00	-0.01
01/05/2005	23:30	-0.01
01/06/2005	00:00	-0.02
01/06/2005	00:30	-0.01
02/16/2005	10:00	-0.01
02/16/2005	10:30	-0.02
03/11/2005	18:00	-0.01
03/11/2005	18:30	-0.01
03/12/2005	18:30	-0.01
03/12/2005	19:00	-0.01
03/12/2005	19:30	-0.01
03/13/2005	17:30	-0.01
03/13/2005	18:00	-0.02
03/13/2005	18:30	-0.02
03/13/2005	19:00	-0.02
03/13/2005	19:30	-0.02
03/13/2005	20:00	-0.02
04/13/2005	18:30	-0.01
04/13/2005	19:00	-0.02
04/22/2005	15:00	-0.01
04/22/2005	15:30	-0.02
04/23/2005	13:30	-0.02
04/23/2005	14:00	-0.04
04/23/2005	14:30	-0.06
04/23/2005	15:00	-0.08
04/23/2005	15:30	-0.09
04/23/2005	16:00	-0.09
04/23/2005	16:30	-0.09

04/24/2005	03:30	-0.01
04/24/2005	04:00	-0.02
04/24/2005	04:30	-0.02
04/24/2005	14:00	-0.01
04/24/2005	14:30	-0.02
04/24/2005	15:00	-0.03
04/24/2005	15:30	-0.04
04/24/2005	16:00	-0.04
04/24/2005	16:30	-0.05
04/24/2005	17:00	-0.05
05/23/2005	16:30	-0.01
05/24/2005	16:00	-0.02
05/24/2005	16:30	-0.04
08/24/2005	10:00	-0.01
11/21/2005	19:30	-0.02
11/21/2005	20:00	-0.05
11/21/2005	20:30	-0.07
11/21/2005	21:00	-0.08
11/21/2005	21:30	-0.08
11/21/2005	22:00	-0.09
11/21/2005	22:30	-0.09
11/21/2005	23:00	-0.09
11/21/2005	23:30	-0.01
11/22/2005	03:30	-0.04
11/22/2005	04:00	-0.06
11/22/2005	04:30	-0.07
11/22/2005	05:00	-0.07
11/22/2005	05:30	-0.07
11/22/2005	06:00	-0.07
11/22/2005	06:30	-0.07
11/22/2005	07:00	-0.07
11/22/2005	07:30	-0.06
11/22/2005	08:00	-0.06
11/22/2005	08:30	-0.06
11/22/2005	09:00	-0.05
11/22/2005	09:30	-0.05
11/22/2005	10:00	-0.05
11/22/2005	10:30	-0.05
11/22/2005	11:00	-0.05
12/12/2005	14:30	-0.01
12/29/2005	00:30	-0.01
12/29/2005	01:00	-0.03
12/29/2005	01:30	-0.04
12/29/2005	02:00	-0.05
12/29/2005	02:30	-0.05
12/29/2005	03:00	-0.05

12/29/2005	03:30	-0.06
12/29/2005	15:30	-0.01
12/29/2005	16:00	-0.01
12/29/2005	16:30	-0.01

Negative turbidity

The following are negative turbidity values which are usually very close to zero and may be considered zero or near zero turbidity conditions. Slight calibration errors and sensor fouling due to marine growth are probable causes for the anomalous values.

<u>DATE</u>	<u>TIME</u>	<u>NTU</u>
01/01/2005	00:00:00	-0015
01/01/2005	00:30:00	-0014
01/01/2005	01:00:00	-0011
01/01/2005	01:30:00	-0013
01/01/2005	02:00:00	-0011
01/01/2005	02:30:00	-0009
01/01/2005	03:00:00	-0009
01/01/2005	03:30:00	-0009
01/01/2005	04:00:00	-0009
01/01/2005	04:30:00	-0009
01/01/2005	05:00:00	-0010
01/01/2005	05:30:00	-0010
01/01/2005	06:00:00	-0010
01/01/2005	06:30:00	-0010
01/01/2005	07:00:00	-0010
01/01/2005	07:30:00	-0007
01/01/2005	08:00:00	-0007
01/01/2005	08:30:00	-0006
01/01/2005	09:00:00	-0009
01/01/2005	10:00:00	-0012
01/01/2005	11:00:00	-0012
01/01/2005	11:30:00	-0013
01/01/2005	12:00:00	-0012
01/01/2005	13:00:00	-0013
01/01/2005	13:30:00	-0011
01/01/2005	16:00:00	-0004
01/01/2005	16:30:00	-0006
01/01/2005	17:00:00	-0008
01/01/2005	17:30:00	-0009
01/01/2005	18:00:00	-0011
01/01/2005	18:30:00	-0011
01/01/2005	19:00:00	-0012
01/01/2005	19:30:00	-0011
01/01/2005	20:00:00	-0011
01/01/2005	20:30:00	-0011
01/01/2005	21:00:00	-0010

01/01/2005	21:30:00	-0011
01/01/2005	22:00:00	-0011
01/01/2005	22:30:00	-0012
01/01/2005	23:00:00	-0013
01/01/2005	23:30:00	-0014
01/02/2005	00:00:00	-0015
01/02/2005	00:30:00	-0014
01/02/2005	01:00:00	-0015
01/02/2005	01:30:00	-0014
01/02/2005	02:00:00	-0013
01/02/2005	02:30:00	-0012
01/02/2005	03:00:00	-0010
01/02/2005	03:30:00	-0008
01/02/2005	04:00:00	-0007
01/02/2005	04:30:00	-0008
01/02/2005	05:00:00	-0008
01/02/2005	05:30:00	-0009
01/02/2005	06:00:00	-0009
01/02/2005	07:30:00	-0009
01/02/2005	08:00:00	-0008
01/02/2005	08:30:00	-0009
01/02/2005	09:00:00	-0006
01/02/2005	09:30:00	-0008
01/02/2005	10:00:00	-0010
01/02/2005	10:30:00	-0011
01/02/2005	11:00:00	-0013
01/02/2005	11:30:00	-0014
01/02/2005	12:00:00	-0012
01/02/2005	12:30:00	-0014
01/02/2005	13:30:00	-0015
01/02/2005	14:00:00	-0015
01/02/2005	14:30:00	-0014
01/02/2005	15:00:00	-0009
01/02/2005	15:30:00	-0003
01/02/2005	16:30:00	-0003
01/02/2005	17:00:00	-0004
01/02/2005	17:30:00	-0008
01/02/2005	18:00:00	-0009
01/02/2005	18:30:00	-0010
01/02/2005	19:00:00	-0011
01/02/2005	19:30:00	-0012
01/02/2005	20:00:00	-0011
01/02/2005	20:30:00	-0011
01/02/2005	21:00:00	-0012
01/02/2005	21:30:00	-0011
01/02/2005	22:00:00	-0010

01/02/2005	22:30:00	-0011
01/02/2005	23:00:00	-0013
01/02/2005	23:30:00	-0013
01/03/2005	00:00:00	-0014
01/03/2005	00:30:00	-0014
01/03/2005	01:00:00	-0015
01/03/2005	01:30:00	-0015
01/03/2005	02:00:00	-0015
01/03/2005	02:30:00	-0015
01/03/2005	03:00:00	-0013
01/03/2005	03:30:00	-0011
01/03/2005	04:00:00	-0010
01/03/2005	04:30:00	-0008
01/03/2005	05:00:00	-0008
01/03/2005	05:30:00	-0008
01/03/2005	06:00:00	-0009
01/03/2005	06:30:00	-0010
01/03/2005	07:00:00	-0010
01/03/2005	07:30:00	-0010
01/03/2005	08:00:00	-0008
01/03/2005	08:30:00	-0010
01/03/2005	09:00:00	-0011
01/03/2005	09:30:00	-0011
01/03/2005	10:00:00	-0010
01/03/2005	10:30:00	-0009
01/03/2005	11:00:00	-0009
01/03/2005	11:30:00	-0011
01/03/2005	12:00:00	-0014
01/03/2005	12:30:00	-0014
01/03/2005	13:00:00	-0015
01/03/2005	14:00:00	-0016
01/03/2005	14:30:00	-0005
01/03/2005	15:00:00	-0015
01/03/2005	15:30:00	-0011
01/03/2005	16:00:00	-0004
01/03/2005	17:00:00	-0003
01/03/2005	17:30:00	-0006
01/03/2005	18:00:00	-0008
01/03/2005	18:30:00	-0009
01/03/2005	19:00:00	-0011
01/03/2005	19:30:00	-0011
01/03/2005	20:00:00	-0011
01/03/2005	20:30:00	-0012
01/03/2005	21:00:00	-0011
01/03/2005	21:30:00	-0011
01/03/2005	22:00:00	-0011

01/03/2005	22:30:00	-0011
01/03/2005	23:00:00	-0010
01/03/2005	23:30:00	-0011
01/04/2005	00:00:00	-0012
01/04/2005	00:30:00	-0012
01/04/2005	01:00:00	-0014
01/04/2005	01:30:00	-0015
01/04/2005	02:00:00	-0015
01/04/2005	02:30:00	-0015
01/04/2005	03:00:00	-0016
01/04/2005	03:30:00	-0015
01/04/2005	04:00:00	-0014
01/04/2005	04:30:00	-0013
01/04/2005	05:00:00	-0009
01/04/2005	05:30:00	-0008
01/04/2005	06:00:00	-0008
01/04/2005	06:30:00	-0009
01/04/2005	07:00:00	-0010
01/04/2005	07:30:00	-0011
01/04/2005	08:00:00	-0011
01/04/2005	08:30:00	-0010
01/04/2005	09:00:00	-0011
01/04/2005	09:30:00	-0011
01/04/2005	10:00:00	-0011
01/04/2005	10:30:00	-0012
01/04/2005	11:00:00	-0012
01/04/2005	11:30:00	-0010
01/04/2005	12:00:00	-0011
01/04/2005	12:30:00	-0013
01/04/2005	13:00:00	-0014
01/04/2005	13:30:00	-0015
01/04/2005	14:00:00	-0015
01/04/2005	14:30:00	-0015
01/04/2005	15:00:00	-0016
01/04/2005	15:30:00	-0015
01/04/2005	16:00:00	-0013
01/04/2005	16:30:00	-0007
01/04/2005	17:30:00	-0003
01/04/2005	18:00:00	-0005
01/04/2005	18:30:00	-0007
01/04/2005	19:00:00	-0009
01/04/2005	19:30:00	-0010
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01/21/2005	23:30:00	-0008
01/22/2005	00:00:00	-0009
01/22/2005	00:30:00	-0008
01/22/2005	01:00:00	-0009
01/22/2005	01:30:00	-0008
01/22/2005	02:00:00	-0009
01/22/2005	02:30:00	-0009
01/22/2005	03:00:00	-0008
01/22/2005	03:30:00	-0008
01/22/2005	04:00:00	-0008
01/22/2005	04:30:00	-0007
01/22/2005	05:00:00	-0004
01/22/2005	07:30:00	-0003
01/22/2005	08:00:00	-0005
01/22/2005	08:30:00	-0006
01/22/2005	09:00:00	-0006
01/22/2005	09:30:00	-0005
01/22/2005	10:00:00	-0007
01/22/2005	10:30:00	-0007
01/22/2005	11:30:00	-0008
01/22/2005	12:00:00	-0007
01/22/2005	12:30:00	-0007
01/22/2005	13:00:00	-0006
01/22/2005	13:30:00	-0008
01/22/2005	14:00:00	-0009
01/22/2005	14:30:00	-0009
01/22/2005	15:00:00	-0009
01/22/2005	15:30:00	-0010
01/22/2005	16:00:00	-0010
01/22/2005	16:30:00	-0011
01/22/2005	17:00:00	-0011
01/22/2005	17:30:00	-0011
01/22/2005	18:00:00	-0011
01/22/2005	18:30:00	-0010
01/22/2005	19:00:00	-0010
01/22/2005	19:30:00	-0009
01/22/2005	20:00:00	-0010
01/22/2005	20:30:00	-0010
01/22/2005	21:00:00	-0009
01/22/2005	21:30:00	-0007
01/22/2005	22:00:00	-0005
01/22/2005	22:30:00	-0005
01/22/2005	23:00:00	-0005
01/22/2005	23:30:00	-0006
01/23/2005	00:00:00	-0007

01/23/2005	00:30:00	-0008
01/23/2005	01:00:00	-0008
01/23/2005	01:30:00	-0007
01/23/2005	02:00:00	-0007
01/23/2005	02:30:00	-0008
01/23/2005	03:00:00	-0008
01/23/2005	03:30:00	-0008
01/23/2005	04:00:00	-0008
01/23/2005	04:30:00	-0008
01/23/2005	05:00:00	-0007
01/23/2005	05:30:00	-0006
01/23/2005	06:00:00	-0005
01/23/2005	06:30:00	-0005
01/23/2005	09:00:00	-0005
01/23/2005	09:30:00	-0008
01/23/2005	10:00:00	-0007
01/23/2005	10:30:00	-0007
01/23/2005	11:00:00	-0007
01/23/2005	11:30:00	-0007
01/23/2005	12:00:00	-0007
01/23/2005	12:30:00	-0007
01/23/2005	13:00:00	-0006
01/23/2005	13:30:00	-0007
01/23/2005	14:00:00	-0007
01/23/2005	15:00:00	-0007
01/23/2005	15:30:00	-0004
01/23/2005	16:30:00	-0007
01/23/2005	17:00:00	-0007
01/23/2005	17:30:00	-0006
01/23/2005	18:00:00	-0006
01/23/2005	18:30:00	-0004
01/23/2005	22:00:00	-0003
01/23/2005	22:30:00	-0004
01/23/2005	23:00:00	-0006
01/23/2005	23:30:00	-0007
01/24/2005	00:00:00	-0008
01/24/2005	00:30:00	-0008
01/24/2005	02:00:00	-0008
01/24/2005	02:30:00	-0008
01/24/2005	03:00:00	-0008
01/24/2005	03:30:00	-0008
01/24/2005	04:00:00	-0008
01/24/2005	04:30:00	-0006
01/24/2005	05:00:00	-0004
01/24/2005	11:00:00	-0005
01/24/2005	11:30:00	-0006

01/24/2005	12:30:00	-0006
01/24/2005	13:00:00	-0007
01/24/2005	13:30:00	-0006
01/24/2005	14:00:00	-0007
01/24/2005	14:30:00	-0008
01/24/2005	15:00:00	-0009
01/24/2005	15:30:00	-0010
01/24/2005	16:00:00	-0010
01/24/2005	16:30:00	-0010
01/24/2005	17:00:00	-0010
01/24/2005	17:30:00	-0010
01/24/2005	18:00:00	-0010
01/24/2005	18:30:00	-0010
01/24/2005	19:00:00	-0009
01/24/2005	19:30:00	-0007
01/24/2005	20:00:00	-0006
01/24/2005	20:30:00	-0007
01/24/2005	21:00:00	-0009
01/24/2005	21:30:00	-0008
01/24/2005	22:00:00	-0008
01/24/2005	22:30:00	-0009
01/24/2005	23:00:00	-0009
01/24/2005	23:30:00	-0008
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01/25/2005	00:30:00	-0010
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01/25/2005	02:30:00	-0010
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01/25/2005	03:30:00	-0009
01/25/2005	04:00:00	-0009
01/25/2005	04:30:00	-0010
01/25/2005	05:00:00	-0009
01/25/2005	05:30:00	-0010
01/25/2005	12:00:00	-0006
01/25/2005	12:30:00	-0008
01/25/2005	13:00:00	-0008
01/25/2005	13:30:00	-0008
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01/25/2005	14:30:00	-0009
01/25/2005	15:00:00	-0009
01/25/2005	15:30:00	-0009
01/25/2005	16:00:00	-0009
01/25/2005	16:30:00	-0009
01/25/2005	17:00:00	-0010

01/25/2005	17:30:00	-0010
01/25/2005	18:00:00	-0010
01/25/2005	18:30:00	-0010
01/25/2005	19:00:00	-0010
01/25/2005	19:30:00	-0008
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01/25/2005	21:30:00	-0004
01/25/2005	22:00:00	-0005
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01/25/2005	23:00:00	-0006
01/25/2005	23:30:00	-0007
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01/26/2005	15:30:00	-0006
01/26/2005	16:00:00	-0006
01/26/2005	16:30:00	-0007
01/26/2005	17:00:00	-0008
01/26/2005	17:30:00	-0008
01/26/2005	18:00:00	-0008
01/26/2005	18:30:00	-0007
01/26/2005	19:00:00	-0009
01/26/2005	19:30:00	-0009
01/26/2005	20:00:00	-0008
01/26/2005	22:00:00	-0004
01/26/2005	23:00:00	-0003
01/26/2005	23:30:00	-0005

01/27/2005	00:00:00	-0004
01/27/2005	00:30:00	-0004
01/27/2005	01:00:00	-0005
01/27/2005	01:30:00	-0007
01/27/2005	02:00:00	-0007
01/27/2005	02:30:00	-0009
01/27/2005	03:00:00	-0009
01/27/2005	03:30:00	-0009
01/27/2005	04:00:00	-0009
01/27/2005	04:30:00	-0009
01/27/2005	05:00:00	-0009
01/27/2005	05:30:00	-0009
01/27/2005	06:00:00	-0008
01/27/2005	06:30:00	-0008
01/27/2005	07:00:00	-0006
01/27/2005	07:30:00	-0003
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01/27/2005	11:30:00	-0004
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01/27/2005	13:00:00	-0007
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01/27/2005	15:30:00	-0005
01/27/2005	16:00:00	-0006
01/27/2005	16:30:00	-0007
01/27/2005	17:00:00	-0009
01/27/2005	17:30:00	-0009
01/27/2005	18:00:00	-0010
01/27/2005	18:30:00	-0009
01/27/2005	19:00:00	-0008
01/27/2005	19:30:00	-0008
01/27/2005	20:00:00	-0007
01/27/2005	20:30:00	-0006
01/28/2005	02:00:00	-0005
01/28/2005	02:30:00	-0006
01/28/2005	03:00:00	-0006
01/28/2005	03:30:00	-0005
01/28/2005	04:00:00	-0006
01/28/2005	04:30:00	-0005
01/28/2005	05:00:00	-0007
01/28/2005	05:30:00	-0007
01/28/2005	06:00:00	-0007

01/28/2005	06:30:00	-0009
01/28/2005	07:00:00	-0008
01/28/2005	07:30:00	-0008
01/28/2005	08:00:00	-0007
01/28/2005	08:30:00	-0006
01/28/2005	16:00:00	-0004
01/28/2005	16:30:00	-0007
01/28/2005	17:00:00	-0007
01/28/2005	17:30:00	-0007
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01/28/2005	18:30:00	-0007
01/28/2005	19:00:00	-0008
01/28/2005	19:30:00	-0009
01/28/2005	20:00:00	-0009
01/28/2005	20:30:00	-0009
01/28/2005	21:00:00	-0008
01/28/2005	21:30:00	-0008
01/28/2005	22:00:00	-0005
01/29/2005	02:30:00	-0004
01/29/2005	03:00:00	-0006
01/29/2005	03:30:00	-0007
01/29/2005	04:00:00	-0007
01/29/2005	04:30:00	-0007
01/29/2005	05:00:00	-0008
01/29/2005	05:30:00	-0008
01/29/2005	06:00:00	-0008
01/29/2005	06:30:00	-0008
01/29/2005	07:00:00	-0009
01/29/2005	07:30:00	-0009
01/29/2005	08:00:00	-0008
01/29/2005	08:30:00	-0008
01/29/2005	09:00:00	-0007
01/29/2005	09:30:00	-0004
01/29/2005	14:30:00	-0003
01/29/2005	15:00:00	-0006
01/29/2005	15:30:00	-0008
01/29/2005	16:00:00	-0007
01/29/2005	16:30:00	-0007
01/29/2005	17:00:00	-0008
01/29/2005	17:30:00	-0009
01/29/2005	18:00:00	-0010
01/29/2005	18:30:00	-0010
01/29/2005	19:00:00	-0011
01/29/2005	19:30:00	-0011
01/29/2005	20:00:00	-0011
01/29/2005	20:30:00	-0003

01/29/2005	21:00:00	-0009
01/29/2005	21:30:00	-0009
01/29/2005	22:00:00	-0008
01/29/2005	22:30:00	-0004
01/30/2005	03:00:00	-0004
01/30/2005	03:30:00	-0006
01/30/2005	04:00:00	-0006
01/30/2005	04:30:00	-0006
01/30/2005	05:00:00	-0006
01/30/2005	06:00:00	-0007
01/30/2005	06:30:00	-0007
01/30/2005	07:00:00	-0008
01/30/2005	07:30:00	-0005
01/30/2005	08:00:00	-0008
01/30/2005	08:30:00	-0007
01/30/2005	09:00:00	-0006
01/30/2005	09:30:00	-0007
01/30/2005	10:00:00	-0006
01/30/2005	14:30:00	-0004
01/30/2005	15:00:00	-0005
01/30/2005	15:30:00	-0003
01/30/2005	16:00:00	-0005
01/30/2005	16:30:00	-0006
01/30/2005	17:00:00	-0008
01/30/2005	17:30:00	-0008
01/30/2005	18:00:00	-0010
01/30/2005	18:30:00	-0010
01/30/2005	19:00:00	-0010
01/30/2005	19:30:00	-0010
01/30/2005	20:00:00	-0010
01/30/2005	20:30:00	-0009
01/30/2005	21:00:00	-0008
01/30/2005	21:30:00	-0008
01/30/2005	22:00:00	-0008
01/30/2005	22:30:00	-0006
01/31/2005	02:00:00	-0004
01/31/2005	02:30:00	-0005
01/31/2005	03:00:00	-0007
01/31/2005	03:30:00	-0007
01/31/2005	04:00:00	-0006
01/31/2005	04:30:00	-0007
01/31/2005	05:00:00	-0007
01/31/2005	05:30:00	-0008
01/31/2005	06:00:00	-0009
01/31/2005	06:30:00	-0009
01/31/2005	07:00:00	-0009

01/31/2005	07:30:00	-0005
01/31/2005	08:00:00	-0008
01/31/2005	08:30:00	-0010
01/31/2005	09:00:00	-0009
01/31/2005	09:30:00	-0009
01/31/2005	10:00:00	-0009
01/31/2005	10:30:00	-0009
01/31/2005	11:00:00	-0008
01/31/2005	11:30:00	-0004
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01/31/2005	13:30:00	-0003
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02/01/2005	01:30:00	-0004
02/01/2005	02:00:00	-0005
02/01/2005	02:30:00	-0005
02/01/2005	03:00:00	-0006
02/01/2005	03:30:00	-0007
02/01/2005	04:00:00	-0008
02/01/2005	04:30:00	-0008
02/01/2005	05:00:00	-0007
02/01/2005	05:30:00	-0008
02/01/2005	06:00:00	-0008
02/01/2005	06:30:00	-0009
02/01/2005	07:00:00	-0008
02/01/2005	07:30:00	-0009

02/01/2005	08:00:00	-0010
02/01/2005	08:30:00	-0009
02/01/2005	09:30:00	-0010
02/01/2005	10:00:00	-0010
02/01/2005	10:30:00	-0010
02/01/2005	11:00:00	-0007
02/01/2005	11:30:00	-0009
02/01/2005	12:00:00	-0009

Turbidity spikes

The following turbidity spikes represent unusually high readings, which can be caused by a number of factors including, but not limited to marine growth on the sensor, extreme tides, high winds, and heavy rainfall runoff

<u>DATE</u>	<u>TIME</u>	<u>NTU</u>
01/20/2005	09:00:00	1391
03/22/2005	21:30:00	1152
04/01/2005	18:00:00	1185
04/01/2005	18:30:00	1173
04/01/2005	19:00:00	1169
04/07/2005	16:00:00	1161
08/22/2005	16:00:00	1365
08/31/2005	09:00:00	2163
09/02/2005	11:30:00	1333
09/05/2005	08:00:00	2117
09/05/2005	15:00:00	2195
09/10/2005	21:00:00	2460
09/19/2005	06:00:00	1284
09/20/2005	01:00:00	1169
09/20/2005	02:00:00	1162
09/20/2005	06:30:00	1038
09/20/2005	10:30:00	1234
09/20/2005	20:00:00	1407
11/23/2005	07:30:00	1100

12) Deleted Data

Hunt dock

The nature of this site causes the sonde to be periodically exposed during periods of low tide. All parameters for the following dates and times have been removed as a result of these occurrences.

1/8 0000
 1/9 0000-0130
 1/9 1330-1400
 1/10 0130-0230

1/10 1430-1530
1/11 0200-0330
1/11 1530-1630
1/12 0300 - 0430
1/12 1630-1700
1/13 0430-0500
1/13 1730
1/14 0530
1/14 1730-1830
2/9 0230-0330
2/9 1530-1600
2/10 0330-0430
2/10 1530-1730
2/11 0400-0500
2/11 1700-1730
2/12 1800
3/1 1700-1830
3/5 2230-2300
3/7 1200
3/7 2330-3/8 0100
3/8 1200-1500
3/9 0000- 0200
3/9 1330-1430
3/10 0130 0300
3/10 1400-1530
3/11 0230- 0400
3/11 1430-1630
3/12 0300-0500
3/12 1500-1730
3/13 0330-0530
3/13 1600-1730
3/14 0500-0530
3/21 1600-1700
3/29 0430-0500
4/2 2000-2100
4/3 2200-2300
4/6 1300
4/7 1330-1400
4/8 0230
4/8 1400-1500
4/9 0300
4/24 0130-0230
4/24 1300-1430
4/25 0230-0330
4/25 1430-1500
4/26 0300-0430

4/27 0430
4/27 1600-1630
5/23 1400
5/24 0230-0300
6/23 0330
6/23 1430-1530
7/20 1330-1403
7/21 0300-0330
7/21 1430-1600
7/22 0330-0430
7/22 1600-1830
7/23 0430-0530
7/23 1700
8/19 1400
8/20 0300
8/20 1500
8/21 0330-0400
8/22 0430
11/14 0030
11/17 0200-0300
11/22 0600
11/22 1830-1900
11/24 0830
11/29 1330
11/30 0000-0130
11/30 1300-1400
12/1 0030-0230
12/1 1330-1500
12/2 0100-0330
12/2 1430-1600
12/3 0200-0400
12/3 1530-1630
12/4 0230-0500
12/4 1530-1800
12/5 0330-0600
12/5 1630-1830
12/6 0400-0700
12/6 1730-1830
12/11 2300-2330
12/12 0000
12/12 2330
12/13 0000-0100
12/16 0200-0230
12/26 2200-2300
12/29 1330
12/30 0000-0130

12/31 0130-0230
12/31 1500-1530

Further data was removed under the following circumstances:

pH data were deleted for the entire 1/6 1230 to 2/1 1300 deployment, probe malfunction or calibration error.

pH reading was deleted on 3/13 @1800, the pH probe appeared to be out of the water.

All data deleted from 4/28 @1000-5/10 @1030 due to poor post cals and field sample discrepancies. Potential problem with temperature probe.

Turbidity deleted from 7/10 @ 2130-7/13 @ 1300 due to fouling.

DO deleted from 8/22 @0430 to 8/26 @0830 due to sudden drop in values that didn't agree with field data.

DO deleted from 9/8 @1000 to 9/22 @0800 due to probe failure.

Deleted DO data from 10/28 @ 0930 to 11/08 @ 1400 due to probe malfunction.

Erroneous pH data were deleted from 11/17 @0330 through the end of the deployment at 0900 on 11/22. Readings climbed rapidly to unbelievable values.

DO from 11/14 @0100 to 11/22 @ 0900 due to increase in values that didn't agree with field data.

Deleted all data during an unexplained temp spike 12/27 1500-1600.

Lower Duplin:

DO data from 1/6/05 @1300 to 2/1/05 @1200 was removed due to an early deployment membrane failure.

Temp probe failed so all data were removed from 2/1/05 @13:30 to 2/16/05 @ 14:00.

DO data was deleted from 2/16 @1430-3/3 @1100 due to a membrane failure.

DO data was deleted from 4/12 @0930-4/26 @1130 due to erratic, high readings followed by total failure.

DO data were deleted on 5/10 @ 10:00 and 10:30, extremely high readings.

DO from 6/20 @1600-7/11 @ 1030 due to probe failure.

Turbidity from 7/5 @0630- 7/11 @ 1030 due to probe fouling.

pH 7/13 @ 1000-7/27 @ 01230 due to a probe failure.

pH deleted from 8/9 0900 through 8/23 1130 due to probe or calibration error.

DO 12/6 0930-12/7 1000 due to sudden drop out of line with next dataset.

Dean Creek:

DO deleted on 3/12 @ 1800, DO sensors appear to have been out of the water, all other parameters looks fine.

Temp probe failure from 4/27 @ 1000 to 5/10 @ 1000 so all parameters deleted.

Turbidity from 7/22 @1300 to 7/27 @ 0930 due to fouling (wiper fell off).

All data were deleted on 8/24 @ 1000, the sonde was out of the water.

DO deleted from 9/20@ 1330 to 10/07@ 0900 due to a membrane rupture.

pH deleted from 11/22 1900 through 12/8 1400 due to probe failure.

pH deleted from 12/21 @ 1430 through 12/31 @ 2330 due to probe failure.

Cabretta creek:

DO data were deleted from 1/1 @ 0000 through 1/6 @ 1130 due to erratic reading likely caused by membrane failure.

Dissolved oxygen data deleted from 3/18 @1000 to 3/24 @1030 due to fouling and eventual probe failure.

DO data were deleted for 4/13 2330, the readings were extremely high.

All data except %dissolved oxygen deleted from 4/28 @1030 to 5/10 @0930 due to bad sal/cond readings.

DO data deleted from 5/4/05 @ 0730 to 5/10 @ 0930, values declined to an eventual flatline, likely due to fouling.

Turbidity data deleted from 5/20 @0730 to 6/7 @1300 due to fouling.

Turbidity deleted from 6/19 @0030 to 6/21 @ 1230 due to fouling.

DO deleted from 7/6 @ 1300 to 7/12 @ 1300 due to probe fouling.

DO deleted from 9/22@ 0900 to 10/07@ 1200 due to probe malfunction.

DO deleted from 11/21 1530 – 12/8 1130 due to a membrane failure.

pH deleted from 12/8 1200 – 12/21 1400, probe malfunction caused extremely high readings.

13) Missing data:

Data are missing due to equipment failure, specific probes not being deployed, and time of maintenance or calibration of equipment. For more details on deleted data, see the Deleted Data Section (12). If additional information on missing data are needed, contact the Research Coordinator at the reserve submitting the data.

Hunt dock:

1/6 @1130, 1200 lost during change out

3/24 @1200 lost during change out

12/21 @1500 lost during change out

Lower Duplin:

Data are missing from the raw files for the following dates and times:

1/11/05 00:00

1/12/05 11:30, 15:00, 23:30

1/13/05 00:00, 02:00, 12:30

1/14/05 02:30, 13:30, 15:00

1/15/05 03:30, 14:30-15:00, 16:30

1/17/05 04:30

1/21/05 08:30

1/22/05 09:30, 20:30-21:00

1/25/05 10:30, 23:00

1/26/05 10:30, 12:30

1/28/05 13:30

1/29/05 13:30

1/30/05 02:00

4/17/05 07:30, 12:30, 13:30, 14:30

4/18/05 11:30, 13:30

4/19/05 09:30, 14:30, 18:00, 19:30, 21:00, 22:30

4/20/05 00:00

4/21/05 06:30, 09:30, 10:30, 21:00

4/24/05 04:30, 08:30

4/25/05 04:00, 05:30, 08:30, 12:00-12:30, 18:30-19:00, 20:00, 23:30

4/26/05 00:00

5/26/05 13:00

5/27/05 02:00-02:30

6/3/05 21:30

12/21 @1400, 1430 lost during change out

Dean Creek:

1/6 @1130 lost during change out

3/3 @1300 “

Dc 6/7 @1030 to 6/8 @ 1130 missing, sonde pulled for recalibration –no stand in available

12/21 @1230-1400 change out

Cabretta creek:

1/6 @ 1200 lost during change out

2/16 @ 1200 lost during change out

6/7 @1330 to 6/8 @ 1130 sonde pulled for recalibration, no replacement available at the time so some data lost

Data are missing from the raw files for the following dates and times:

9/15: 1:00–06:30, 08:00-08:30, 11:00-12:00, 17:00-18:00, 19:30, 23:30

9/16: 00:00, 06:00-07:30, 08:30-09:00, 10:00-11:30, 16:00-16:30, 18:00-19:30, 22:00-23:00

9/17: 00:00

10/28 @ 0900-10/31 @ 1830 gone for reasons unexplained ...the sonde seemed to just cut out.

12/21 1430-1530 lost during change out

14) Post deployment information:

End of deployment post-calibration readings in standards solutions prior to cleaning.

P/A = probe absent/not functioning.

Cabretta:

Date	DO% Air Saturation	ph(7.41)	Depth m	Turbidity (100/123)	SpCond (25.82)
1/6/05	103	7.39	-.347	(123) 142	23.71
2/1/05	103.3	7.4	-.395	(100) 103	25.69
2/16/05	97	7.89	-.116	(123) 129	24.15
3/4/05	87.5	7.77	.039	(100) 103	28.82
3/24/05	P/A	7.09	.039	(100) 103	24.24
4/13/05	99	7.18	-.139	(123) 128	25.5
4/28/05	100	7.25	.045	(123) 129	25.1
5/10/05	99.5	6.5	.130	(100) 102.6	24.3
6/7/05	P/A	5.5	.009	(123) 124	24.77
6/22/05	95.5	7.85	-.132	(123) 120	24.68
7/14/05	P/A	6.75	-.046	(100) 93.5	24.63
7/27/05	108	6.86	-.049	(123) 114.7	24.33
8/10/05	98.9	6.95	.007	(100) 111.7	24.45
8/26/05	111.6	6.9	-.046	(123) 123	25.51
9/8/05	101.2	7.1	-.079	(123) 118.9	24.36
9/22/05	93.9	7.11	.123	(123) 115.5	25.46
10/11/05	99.5	6.91	-.054	(123) 127.3	24.89
10/28/05	100.8	7.1	.287	(123) 116.7	24.56
11/9/05	89.5	7.25	0	(123) 125.1	24.4
11/22/05	107	7.58	-.173	(123) 125.4	31.9
12/8/05	P/A	7.48	.247	(123) 130.9	23.04
12/21/05	96.4	8.36	-.091	(123) 121.2	26.04
1/6/06	100.6	7.46	.307	(100) 95.2	25.69

Dean Creek:

Date	DO%	Air Saturation	ph(7.41)	Depth m	Turbidity (100/123)	SpCond (25.82)
1/6/05		101.9	7.65	-.114	(123) 132	24.03
2/1/05		103.6	7.64	1.7	(123) 124	26.53
2/16/05		103	7.59	-.143	(123) 128	24.95
3/3/05		102.4	8.17	.035	(123) 129	25.01
3/21/05		97.9	8.12	-.051	(123) 129	24.95
4/12/05		97.5	6.95	-.12	(123) 128	23.74
4/27/05		100	7.31	-.042	(123) 125.1	24.61
5/10/05		93.5	7.25	.001	(123) 124	16.83
6/7/05		106	7.45	-.034	(123) 121	31.25
6/21/05		97.9	6.74	.065	(100) 82.5	24.38
7/12/05		103	7.13	.008	(123) 117	24.7
7/27/05		112.9	7.12	-.031	(123) 120.8	25.38
8/9/05		93.2	6.93	.107	(123) 138.3	24.8
8/24/05		90.6	6.96	-.022	(100) 99.9	23.58
9/7/05		P/A	P/A	.031	(123) 122.3	25.06
9/21/05		104.9	7.09	-.009	(123) 117.9	27.12
10/7/05		134	6.95	-.537	(100) P/A	24.75
10/27/05		94.4	7.07	.30	(123) 81.5	24.64
11/8/05		99.6	7.67	.105	(123) 11.7	24.26
11/28/05		91	7.33	-.267	(100) 106.3	26.5
12/13/05		94.5	6.15	.126	(123) 128.2	24.3
12/21/05		95.5	7.64	-.052	(123) 120.9	25.81
1/3/06		96	6.1	.241	(1230) 121.4	25.02

Hunt Dock:

Date	DO%	Air Saturation	ph(7.41)	Depth m	Turbidity (100/123)	SpCond (25.82)
1/6/05		96.1	7.6	-.111	(123) 144	24.48
2/1/05		107.3	7.55	-.143	(123) 127	26.22
2/16/05		103.5	7.85	-.121	(123) 125	25.12
3/4/05		102.1	7.46	.224	(100) 125	23.82
3/24/05		100.4	7.04	-.04	(100) 105	25.18
4/13/05		105	7.14	-.12	(100) 99	24.76
4/28/05		100	7.04	.325	(123) 120	25.21
5/10/05		105	8.15	.038	(100) 98.5	24.35
6/8/05		107.5	7.35	-.044	(123) 124	25.72
6/22/05		102.5	7.57	.044	(123) 124	24.48
7/14/05		92.5	7.49	-.05	(123) 117	23.44
7/28/05		93	6.95	.004	(100) 91.4	25.47
8/10/05		95.4	6.99	.011	(123) 139	24.99
8/26/05		102.5	7.06	-.025	(123) 123.1	25.25
9/8/05		92.4	7.08	.134	(100) 95	25.27
9/22/05		P/A	7.03	.124	(123) 116.2	25.8
10/11/05		109.8	7.05	-.068	(123) 126.3	24.87

10/28/05	141	6.95	.585	(100) 91.9	23.15
11/9/05	P/A	7.29	0	(123) 130.7	24.59
11/22/05	110.4	8.51	-.144	(123) 121.9	24.52
12/8/05	100.3	7.76	.255	(123) 131.6	22.89
12/21//05	101.5	7.78	-.282	(123) 118.8	25.99
1/6/06	95.1	7.24	-.092	(123) 119.5	24.67

Lower Duplin

Date	DO% Air Saturation	ph(7.41)	Depth m	Turbidity (100/123)	SpCond (25.82)
1/6/05	P/A	7.98	-.101	(123) 122.3	24.5
2/1/05	P/A	8	-.148	(123) 127	25.45
2/16/05	P/A	8.23	.129	(123) 135	23.35
3/3/05	P/A	7.75	.032	(123) 134	24.99
3/22/05	89.2	8.06	-.081	(123) 129	24.87
4/12/05	102.2	7.26	-.006	(123) 129	24.65
4/27/05	100	7.1	-.006	(100) 99.9	23.89
5/10/05	102.9	7.14	.046	(123) 122.5	24.97
6/7/05	70.4	7.83	-.029	(100) 100.9	20.93
6/21/05	72	7.81	.06	(123) 119	25.07
7/13/05	P/A	7.03	-.065	(100) 94.5	24.39
7/28/05	90.5	P/A	-.140	(123) 112	24.3
8/9/05	.035	7.07	.035	(123) 139	24.67
8/24/05	100.2	9.53	.128	(123) 122.6	24.93
9/7/05	103.1	7.13	.026	(123) 145	24.52
9/21/05	75.1	7.68	-.094	(123) 118	24.7
10/5/05	91	7.07	-.241	(123) 127.4	25.52
10/27/05	107.1	7.35	.010	(123) 117.2	25.19
11/8/05	100.7	7.70	.123	(123) 115	31.31
11/28/05	96.2	7.19	-.255	(123) 131.5	24.24
12/7/05	81.4	7.68	.245	(123) 138.2	23.07
12/21/05	76.0	7.85	-.049	(100) 108.6	26.1
1/4/06	116	7.29	-.034	(123) 119.2	24.73

15) Other remarks:

On 08/13/2020 this dataset was updated to include embedded QAQC flags for anomalous/suspect data. System-wide monitoring data beginning in 2007 were processed to allow for QAQC flags and codes to be embedded in the data files rather than detailed in the metadata alone (as in the anomalous/suspect, deleted, and missing data sections above). Prior to 2006, rejected data were deleted from the dataset so they are unavailable to be used at all, but suspect data were only noted in the metadata document. Suspect data flags <1> were embedded retroactively in order to allow suspect data to be easily identified and filtered from the dataset if desired for analysis and reporting purposes. No other flags or codes were embedded in the dataset and users should still refer to the detailed explanations above for more information.

Data editing followed CDMO protocol. Out of range data has been rejected. Large spikes and other unusual readings though reported in the anomalous data section were usually retained, as a direct cause usually cannot be pinpointed.

Despite the record setting year for tropical storms and hurricanes we were lucky enough to have been virtually unaffected by storm activity. The only significant occurrence was heavy rain from T.S. Tammy on 10/5-10/8.