THE GREAT BAY COAST WATCH

2002 ANNUAL REPORT

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by

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The following people, foundations, municipalities and agencies made the 2002 GBCW sampling season possible:

Volunteers:

This report represents the combined efforts of many contributors. We particularly want to thank the more than 300 volunteers who have participated in the GBCW community volunteer monitoring program during the past 13 years. Their dedication, time, effort, and energy, as well as their financial support, have resulted in the most comprehensive long-term database of volunteer water quality data collected for the Great Bay Estuarine System. The water quality information collected by the volunteers continues to be a key component of the local, regional, state, and federal natural resources decision-making process within the estuarine system.

Agencies:

New Hampshire Coastal Program
New Hampshire Estuaries Projects
New Hampshire Department of Environmental Services

Communities:

Shankhassick (Durham)

Foundations:

Davis Conservation Foundation
Greater Piscataqua Community Foundation

Municipalities:

Dover	Durham	Eliot (ME)	Exeter
Greenland	Lee	New Castle	Newington
Newmarket	Portsmouth	Rye	South Berwick (ME)

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The Great Bay Coast Watch Mission Statement

The Great Bay Coast Watch is citizen volunteers, working within the UNH Cooperative Extension/Sea Grant Program, protecting the long-term health and natural resources of New Hampshire's coastal waters and estuarine systems through monitoring and education projects.

Photo Captions

Executive Summary

The Great Bay Coast Watch (GBCW) was founded in 1990 as part of the University of New Hampshire Cooperative Extension/Sea Grant outreach. The GBCW mission is to protect the long-term health of New Hampshire's coastal environment through volunteer monitoring and education programs. The purpose of this annual report is to describe and interpret water quality monitoring data collected by volunteers from the Great Bay Estuarine System. It is intended to benefit educators, researchers, resource managers, decision-makers, and interested citizens.

GBCW is New Hampshire's most wide-ranging program for direct citizen involvement in monitoring estuarine waters. The GBCW strives to involve citizens in conservation efforts aimed at the whole Great Bay estuarine system, as well as teach them to be conscious of how activities in their own backyards affect the Great Bay Estuary. GBCW includes adults from all occupations, as well as teachers and students from local schools.

Since 1990, GBCW has expanded water quality monitoring coverage from seven sites to twenty-one, plus added six sites for phytoplankton surveying. The database contains results from over 4,000 monitoring visits during the April to November monitoring season. At each visit, GBCW volunteers measure water temperature, pH, salinity, dissolved oxygen, transparency, depth, and fecal coliform bacteria. Samples are taken at high tide and low tide on the same day according to the lunar calendar. All sampling activities are subject to rigorous quality control procedures.

Key indicators show sound overall health of the Great Bay Estuarine System. The following values are composite site averages. Dissolved oxygen saturation was 90.3% (low tide), well above the state water quality standard of 75% saturation. Fecal coliform counts were 41 FC colonies per 100 ml (low tide), similar to the values in 2001 and above the state shellfish standard of 14 counts. Water clarity was 1.6 meters (5.2 feet) visibility during high tide. Salinity was 17.0 ppt at low tide and 20.5 ppt at high tide. Water temperature was 15.0 C at low tide and 15.9 C at high tide.

Salinity values were higher compared to those of 2001 and water temperatures were lower than those of 2001. However, these key indicators vary with location and over time. Site by site comparisons showed considerable variability in water quality measurements. Consistently low dissolved oxygen readings were observed near the mouth of the Winnicut River (site 1) and Portsmouth (sites 18 and 22). Fecal coliform counts were highest at Exeter (site 16). Newmarket's site 12 has been relocated because of the movement of the WWT pipe.

This season many notable events occurred. GBCW trained 80 new students and 28 additional monitoring volunteers. An additional 4,000 volunteer hours were added, making the new total for the entire program to date 131,500 hours. The Gulf of Maine Council Visionary Award was presented to GBCW volunteer, Barbara Baird, for her achievements.

GBCW continued its close association with activities related to its primary interest in water quality. We assisted the NH Coastal Program with Instream Riparian Habitat Assessment checking for stream bank erosion and potential restoration sites. GBCW was able to have the QAPP for Stormwater Investigation approved by the EPA, using a grant from the New Hampshire Department of Environmental Services (NHDES) through the City of Dover. Volunteers took part in a number of potential pollution source and flow studies with the NHDES Shellfish program funded by the New Hampshire Estuaries Project (NHEP). The phytoplankton monitoring program continued into through its third season. A two –year report of collected data was published, as well as the *"Monitoring the Meadows of the Sea"* informational brochure.

GBCW employs several quality assurance and quality control (QAQC) activities to detect possible inconsistencies of measurements in the field and ensure the quality of the monitors' measurements. This year, in all cases, volunteers were within the majority of the preset GBCW goal for precision and accuracy, set by the EPA-approved QAQC plan. This indicates that the volunteers are measuring the water quality parameters with accuracy and precision and that the data can be viewed with confidence.

The issue of the accuracy and precision of the volunteers will continue to be addressed and tested by the GBCW QAQC sessions. The slight variations in values of dissolved oxygen measured by the calibration meter and in values at the low range of salinity will be addressed in future QAQC sessions. Continued training and practice will bring these results in line with our QAQC plan.

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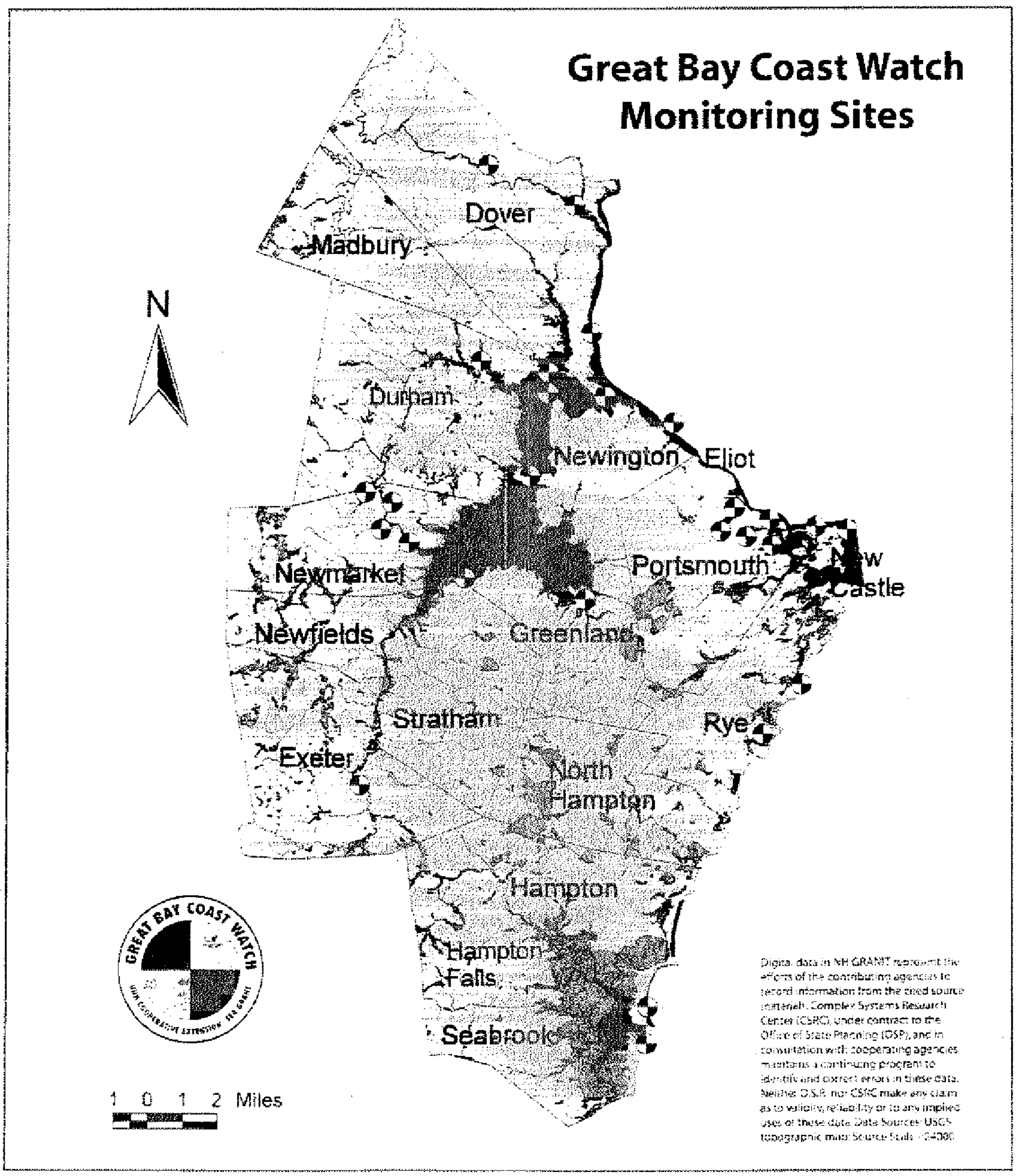
A. The Great Bay Estuary and the Great Bay Coast Watch

The Great Bay Estuary and Where it is Located

The Great Bay Estuary is one of two major estuaries on the coast of New Hampshire. It is a complex embayment composed of the Piscataqua River, Little Bay, and Great Bay that drains a watershed of 930 square miles, one-third of which is found in the state of Maine. Eight rivers, the Oyster, Cochecho, Bellamy, Salmon Falls, Lamprey, Squamscott, Winnicut, and the Piscataqua, flow into the estuary. The Piscataqua serves as part of the boundary between Maine and New Hampshire.



The Importance of Estuarine Ecosystems

The waters of the Great and Little Bays and all the connected river areas are known as estuarine waters. An estuary is an area where freshwater mixes with sea water (Ketchum 1951). Most estuaries are shallow tidal embayments and contain many types of wetlands, including salt marshes, which until only recently were considered worthless parcels of land. Salt marshes known to play an important role in filtering the waters of the estuary, serving as a nursery for saltwater fish, and harboring many organisms unique to this environment. Therefore, environmental degradation of e estuary and the lands that surround it could impair its functions and lead to lower value, such as decline in water quality. Information garnered about estuarine water quality from both professional programs and volunteer programs like GBCW support efforts to protect and preserve estuarine waters as well as wetland habitats, which is a top priority of statewide conservation efforts.

Conservation efforts are hindered by the increase in the local human population over the past hundred years. The table below gives the census figures for just the past 30 years and a ten-year projection for the future growth of the population in Great Bay communities. With marked increases in town populations every decade for the past 30 years, there is no doubt that populations have and will continue to increase between 1990 and 2010. Increasing residential development creates pressures that strain the ecosystem and lower its ability to rebound from the pollutants and habitat destruction caused by human activities.

POPULATION GROWTH IN GREAT BAY COMMUNITIES						
United States Census						Projection
	1960	1970	1980	1990	2000	2010
Dover	19,131	20,850	22,377	25,042	26,884	29,205
Greenland	1,196	1,784	2,129	2,768	3,208	3,825
Madbury	556	704	987	1,404	1,509	1,733
Newfields	737	843	817	888	1,551	1,432
Newington	1,045	798	716	990	775	931
Newmarket	3,153	3,361	4,290	7,157	8,027	9,728
Stratham	1,033	1,512	2,507	4,955	6,355	7,898
Total	26,851	29,852	33,823	43,204	48,309	54,752

Source: 1960, 1970, 1980, 1990, 2000 U.S. Census; NH Office of State Planning for 2010 projections using 1/99 report.

The water supply and sewage treatment facilities that serve the surrounding communities are also experiencing an increase in pressure from the building of many homes along the rivers and bays. The chart on the following page shows the treatment levels and amounts of wastewater being processed each day in the towns bordering the Great Bay Estuary. Since 1982, the total average daily flow of all the treatment facilities listed has increased annually by 0.33 million gallons per day. Although many of the wastewater treatment facilities periodically upgrade their systems to accommodate increased development, the water flow into the Gulf of Maine is increasingly altered.

Community Served	**Treatment Level**	**Ave. Daily Flow Basis* '96 Revised 2002**	**Receiving Water**	**Year Started**
New Hampshire				
Dover	Secondary	2.2 million	Cochecho River	1955
Durham	Secondary	1.35million	Oyster River	1965-1980
Exeter	Secondary	1.5 million	Squamscott River	1965
Newmarket	Secondary	0.85 million	Lamprey River	1971
Newington	Secondary	0.18 million	Piscataqua River	1980
Portsmouth (Pierce Is.)	Adv. primary	4.9 million	Portsmouth Harbor	1964
Pease AFB/Tradeport	Secondary	0.80 million	Piscataqua River	1953-1998
Rollinsford	Secondary	0.50 million	Salmon Falls River	1967
Somersworth	Secondary	2.4 million	Salmon Falls River	1967
Maine				
Berwick	Secondary	1.1 million	Salmon Falls River	1975
South Berwick	Tertiary	0.35 million	Salmon Falls River	1965-1995

* in gallons per day   Total   16.13 million

This estuary is considered one of the region's most pristine by the U.S. Environmental Protection Agency (EPA). Only through improvements in water management, water quality assessments, and conservation efforts on the part of everyone, will the estuary uphold that title. GBCW strives to involve citizens with conservation efforts aimed toward the whole Great Bay Estuarine System and the neighboring Hampton/Seabrook estuary. GBCW also informs citizens about how activities in their own backyards affect these estuaries.

The Great Bay Coast Watch Program

Currently, the GBCW is New Hampshire's most wide-ranging program for direct citizen involvement in monitoring estuarine and coastal waters. GBCW includes adults from all occupations, as well as students and teachers from local schools. GBCW was formed as Great Bay Watch in 1990 with funding from NOAA, in response to the Great Bay National Estuarine Research Reserve Management Plan, which listed the formation of a citizen estuarine monitoring program as one of its objectives. GBCW has been a part of the educational efforts of Cooperative Extension/Sea Grant Programs of the University of New Hampshire for the past 13 years. In 1999, to more accurately reflect a growing involvement of our volunteers in coastal shoreline surveys and phytoplankton monitoring projects, "Coast" was added to the name. The number of monitors has tripled since 1990, and the GBCW now samples more than twice as many sites as when it began. In 2002, we have continued our dedication to monitoring projects on the seacoast through another season of phytoplankton monitoring, participation in rainfall runoff characterization studies in Great Bay, the Bellamy River, and an instream study for habitat assessment. GBCW assisted NHEP, DES Shellfish Program, NHCP, and the City of Dover in protecting the health and natural resources of Great Bay, Atlantic Coast, and Hampton Harbor.

The mission of the GBCW is citizen volunteers working within the UNH Cooperative Extension/Sea Grant Program, protecting the long term health and natural resources of New Hampshire's coastal waters and estuarine systems through monitoring and education projects.

The GBCW has three specific goals:

1. To monitor the chemical, physical, and biological systems of the New Hampshire coastal waters and Great Bay Estuarine System.

2. To educate residents of New Hampshire's coastal and estuarine communities about the ecological status and protection of these seacoast systems.

3. To develop a management structure that engages volunteers in all aspects of the GBCW and continuously improves the quality of the monitoring and education projects.

A coordinator and extension specialist from UNH's Sea Grant/Cooperative Extension manage the GBCW. Currently, the GBCW has more than 100 active adult members. More than 300 adults have been members of the GBCW over the past 13 years, with 13 enrolled in the program since its inception. During the past 13 years, the monitors have driven thousands of miles and have given **131,500** volunteer hours to the program. Involvement of area schools has grown from one school in 1990, to eight by 2002. Portsmouth Middle School has been assigned a kit and samples regularly since 1999. Newmarket High School teachers and students rejoined the program in 2002.

Agencies and Organizations Enriched by Great Bay Coast Watch Data

- The NH Department of Environmental Services (NHDES) includes GBCW data in the New Hampshire 305(b) Water Quality Report to Congress. The NHDES has also benefited from the volunteers' assistance throughout the year.

- For the eighth consecutive year, researchers at Kent State University used Secchi disk depth data to add to their extensive Secchi Dip-In database.

- Volunteers assisted the NHDES Shellfish Program in gathering information for rainfall dry and wet weather studies at Great Bay, Bellamy, Piscataqua, Cochecho, and Salmon Falls Rivers.

- The NHDES Shellfish Program has used our fecal coliform data as preliminary indicators of combined sewer overflows in Portsmouth.

- The New Hampshire Audubon Society and New Hampshire Fish and Game have utilized the horseshoe crab observation data collected at GBCW sampling sites.

- UNH Jackson Estuarine Laboratory (JEL) uses fecal coliform data for preliminary indicators of potential hotspots.

- Advocates of North Mill Pond have utilized GBCW data to receive grants for projects to protect the habitats around the pond.

- Volunteers collected fecal samples for a study on microbial source tracking being done by Natalie Landry of the NHDES and Dr. Steve Jones of JEL.

- Ten years of sampling data was analyzed and published as the *Ten Year Report on the Volunteer Water Quality Monitoring of the Great Bay Estuarine System.* This report has been used for numerous presentations of the volunteer programs within UNH Cooperative Extension.

- Volunteers assisted the NHDES Shellfish Program in collection and transport of blue mussel samples from the Isles of Shoals. NHDES analyzes the mussels to detect the presence of Paralytic Shellfish Poisoning (PSP) and to better understand this condition.

- The NHDES and the New Hampshire Department of Health and Human Services (NHHHS) used data collected during shoreline surveys in Hampton Harbor to aid in the decision to open the Middle Ground clam-flats for the first time in 10 years.

- Data collected during habitat studies and potential pollution source identification (PPSID) in Great Bay and the Bellamy River assisted NHDES and NHHHS with the required triennial review of shellfish-growing areas.

- Data gathered from the Atlantic Coast were used for the shoreline survey in opening the area for shellfish harvesting.

- The GBCW trained the volunteers of the Advocates of North Mill Pond in Portsmouth in methods for sampling, and their results influenced the NHDES to focus on sampling in this area.

- Volunteer teams completed analysis of GBCW data for presentation to Conservation Commissions to educate local decision-makers about water quality issues in the Great Bay Watershed in the towns of: Dover, Exeter, Greenland, Lee, New Castle, Newmarket, Newington, Portsmouth, Eliot, ME and Kittery, ME.

- The EPA approved the GBCW Fecal Coliform QAPP for work on Phase II Stormwater Management Plan for Dover, NH.

- Ryan Davis, now working for the Alliance for the Chesapeake Bay and former UNH doctoral student, requested the secchi depth data for his work with the Alliance for the Chesapeake Bay and eelgrass studies to mitigate dredging impacts in Little Harbor, NH.

Why Monitoring is Important

Monitoring programs have been implemented in order to follow trends in the health of the Great Bay Estuarine System. With the information provided by the volunteers, problems can be detected and solved before they become critical and damage estuarine resources. Monitoring can then be used to assess the benefits to water quality from management actions and precautionary measures to protect the resource. Monitoring also engages the volunteers from within their communities in water quality issues that affect their own communities. They can see that a number of water quality issues have been resolved and water quality has been improved since the start of the program. Others remain and need attention. If water quality problems are found in the future, these volunteers will know that they are an important part of the solution. Stewardship of water quality begins with monitoring and identifying the problem and often ends with community-level decisions to improve treatment or other aspects of wastewater management. Therefore, monitoring is important for the community in this estuary.

Monitoring usually consists of repetitive measurements or observations of a system recorded over a period of time. Past scientific studies have shown that long-term monitoring can be very important in acquiring an ecological blueprint of a system because:

- Complex ecological systems require long-term observation and study for understanding.

- A sequence of only 2 to 3 years of data can be very misleading about the direction of trends in environmental quality.

- Environments have a "memory" or response time that varies greatly. It takes perhaps a decade for lake waters and a century for ground waters and soils to reflect change.

It is for these reasons that the GBCW program is especially important. With the database of information collected by volunteers over the past 13 years, a much more accurate picture of the environmental state of the Great Bay Estuarine System is available to communities, educators, scientists, environmental managers, and graduate students.

B. Water Quality Data Definitions

The Water Quality Indicators

The GBCW measures several water quality parameters to track the over-all health of the estuary. These indicators are standard in water quality studies, and the volunteers use measurement techniques that are commonly employed in monitoring programs throughout the country.

All surface waters in the state of NH are classified as "Class A" (highest quality, potential drinking water supply, discharge of sewage or wastes prohibited) or "Class B" (second highest quality, suitable for fishing, swimming, and other recreational uses) by the NH Department of Environmental Services. All NH tidal waters are Class B waters. General water quality standards for each class are established in state law (RSA 485-A: 8), and provide guidelines to determine if water is "clean" or "polluted." Where applicable, the data are compared to those standards.

Water Quality Parameters

The following section consists of explanations of the water quality parameters for which GBCW tests. The results collected in 2002 are shown graphically, by parameter, at the end on the section. It should be noted that the GBCW samples only during the months of April through November.

Water Temperature

Water temperature is a basic measurement included in water quality studies. Temperature affects the rates of chemical and biological activity, pH values and dissolved oxygen readings. Warmer water temperature displays slightly increased pH levels. Colder water has the potential of holding more dissolved oxygen. It should be noted however, that pH and dissolved oxygen levels are influenced by many other factors in addition to water temperature. Water temperature is a seasonal parameter with highs occurring in the late summer and lows in fall/early spring. Estuarine environments, such as Great Bay tend to exhibit cooler, less variable temperatures close to the ocean, and warmer, more variable temperatures in the inner estuary and tidal rivers.

Salinity

Salinity levels are calculated by measuring water temperature and density. Density is measured with a hydrometer. Using the water temperature and density readings, a chart is used to obtain the salinity reading expressed in parts per thousand (ppt: parts of dissolved solids per 1000 parts of seawater). Salinity is the total amount of dissolved solids in the water and is made up of all known elements. The salinity of the open ocean is approximately 35 parts per thousand (ppt), but in the Gulf of Maine, salinity is slightly lower at about 32 ppt due to regional rivers and run-off. Seven rivers contribute water to the Great Bay Estuary. During the spring run-off, levels of salinity have been recorded as low as 0 ppt in the upper reaches of the estuary. Salinity may also range as high as 32 ppt. Tolerance of wide-ranging and sometimes rapidly changing salinity values determines, more than any other single factor, which species of plants and animals can survive in an estuary. Although salinity levels are higher at the mouth of the Piscataqua River, and generally become progressively lower as we move into the Great Bay proper, winds and tides cause Little Bay and Great Bay to be well mixed. Mixing occurs top to bottom, blending the warmer, fresher water that tends to float on top with the cooler, denser salt water brought in by the tides. Aquatic life is affected by varying levels of salinity. These levels determine when and where organisms can live in the estuary (Short et al. 1992). In estuaries, salinity readings vary with the seasons and weather conditions, as well as with the tides. Rain and snow melt cause rivers to swell, decreasing the salinity of the bay. As stream in-flow levels decrease and evaporation from the bay's surface increases during the summer months, salinity levels begin to rise. Salinity levels tend to drop again in mid to late fall as autumn rains increase river flows. This seasonal fluctuation is mirrored in the monitoring data from GBCW sites.

pH

A measure of the hydrogen ion (H+) concentration in water (H_20) is pH. The pH scale ranges from 0.0 to 14.0, with acidic waters having pH readings less than 7.0, and basic (or alkaline) waters having pH readings of greater than 7.0. A pH of 7.0 is a neutral (neither acidic or basic) reading. Distilled water has a pH reading of 7.0. Open ocean waters tend to have a pH just over 8.0, while fresh water in New Hampshire tends to be slightly acidic (less than 7.0). Estuarine waters, a mixture of fresh and salt water, generally have pH readings between 6.5 and 8.5. The pH levels in Great Bay may vary slightly over a year, but in general show little seasonal fluctuation. Large changes in pH can have a great impact on estuarine life, and readings well above or well below the normal range may indicate pollution. In particular, acid pollution is caused by the emissions of automobiles and coal-fired power plants. New Hampshire standards for Class B waters specify that pH readings should be between 6.5 and 8.0, unless naturally occurring. GBCW volunteers with an electronic "pocket" pH meter (Cole Parmer pH tester 2).

Dissolved Oxygen

Dissolved Oxygen (DO) is one of the most important indicators of the quality of water for aquatic life. It is essential for all plants and animals inhabiting Great Bay. Dissolved oxygen is measured with a Micro-Winkler titration kit and measurements are expressed in milligrams of oxygen per liter of water (mg/L).

Table of Primary Factors Affecting DO Concentration

Factor	High	Low
Nutrient Loading	Decreases	Increases
Salinity	Decreases	Increases
Temperature	Decreases	Increases
Turbidity from Pollution	Decreases	Increases
Light	Increases	Decreases
Photosynthesis	Increases	Decreases
Wind and Waves	Increases	Decreases

Many conditions can affect DO as indicated in the table above. Temperature and salinity can increase or reduce DO. Warmer water holds less oxygen, as does salty water. Wind and wave action increases DO. Photosynthesis by phytoplankton and submerged aquatic vegetation can increase DO values. Lack of light decreases DO. High turbidity (cloudiness of water) and excessive nutrient loading decrease DO values and may indicate possible pollution. Excessive nutrient loading can result in a large amount of organic matter in the water, and the decomposition of this material reduces the water's oxygen content. Half of GBCW sampling times are scheduled to occur when low tide is in the early morning. Low tide tends to reflect "worst case" conditions, when respiration by plants has occurred for an extended period of time and neither photosynthesis activity nor colder, high tide water are present to raise the oxygen levels.

While the overall oxygen content (in mg/L) in the water is important in assessing the health of a water body, it is also useful to look at dissolved oxygen in terms of "percent saturation." Percent saturation is the ratio of oxygen concentration that is in the water to the oxygen concentration that would be expected in the water if saturated, at given temperature and salinity. Expressing dissolved oxygen data in terms of percent saturation makes observations taken at different times from different sites comparable to one another. One might expect the highest obtainable percent saturation value to be 100 percent; however, "supersaturation" (values greater than 100 %) can occur under certain conditions. Very high concentrations of oxygen are possible in areas with a great deal of aquatic vegetation, which produce oxygen through photosynthesis. Areas with strong wind and wave action can also add oxygen through entrainment of atmospheric oxygen into the water. New Hampshire standards for Class B waters specify that dissolved oxygen readings should be no less than 75 % saturation for a period of twenty-four hours, unless naturally occurring.

The Great Bay Estuary appears to have healthy levels of dissolved oxygen, indicating that it is not experiencing a large amount of "eutrophication," as are some of the other estuaries in the country. Most sites showed average percent saturation values well above the Class B standard of 75%. Any saturations below 75% typically occurred at low tide, but all sites showed levels above 75% of oxygen at high tide, indicating the observed oxygen depletion is not persistent throughout the day. Low saturation levels less than 75% could indicate potential environmental impacts. While GBCW volunteers only sample from the water surface, the measurements are likely to be useful indicators of the oxygen content in the entire water column. The physical characteristics of the estuary, such as relatively shallow depths and strong tidal currents, usually ensure adequate mixing of surface and bottom waters, especially in Great and Little Bays and in the Piscataqua River. Adequate mixing helps prevent persistently low oxygen conditions from occurring.

Transparency

Transparency (Secchi depth) measurements are used as a gauge of the clarity of the water. It is measured by lowering a standard white and black disk (secchi disk) into the water until it no longer can be seen. Turbid conditions, resulting in less secchi depth visibility, tend to increase in the tidal rivers and inner estuary, and then decrease nearer to the ocean and further away from the sources of turbidity. Excessive turbidity may indicate problems in the estuary. Erosion from shorelines and upland areas increases the turbidity of the water, as can plankton blooms caused by high levels of nutrients. Transparency affects fish and other aquatic life by: 1) limiting photosynthetic processes and increasing respiration (oxygen used and carbon dioxide produced), 2) clogging and damaging of fish gills by suspended particles, and 3) obscuring the vision of fish and shellfish as they hunt for food. Estuarine waters can be naturally turbid from suspended sediments and phytoplankton. If the upper waters have less than one percent of the light levels found at the surface, phytoplankton are not able to photosynthesize and sustain growth. Our important seagrass beds require at least 20% of the surface light to survive. Less transparency caused by increased sedimentation could also reduce oyster populations because oyster larvae must settle and grow on clean substrate surfaces.

Fecal Coliform

Fecal coliform bacteria are used as an indicator of human sewage pollution. While fecal coliform is found in the feces of all warm-blooded animals, their presence indicates that other bacteria and viruses that are more dangerous to humans may be also present. High numbers of coliforms can indicate pollution from improperly treated sewage effluent, waste discharges from boats, improperly functioning or failed septic systems, untreated urban storm water, runoff from agricultural operations, feces from wildlife, or other sources. The New Hampshire water quality standard for tidal waters uses enterococci, another type of bacterial indicator to determine if waters are safe for swimming. State standards for tidal shellfish waters, however, do specify acceptable levels of fecal coliforms. While direct application of GBCW data to shellfish water standards would not be appropriate, these standards can be used to give a general sense of contamination in the estuary. Fecal coliform tests are performed using the membrane filtration (plate count) method.

Note: In a set of bacterial data, the average value is calculated by computing the geometric mean, rather than the arithmetic mean. This is the conventional manner by which bacterial averages are reported. Unlike the arithmetic mean, the geometric mean more accurately reflects the nature, or "middle road" of a data set that has a great deal of variability in the observations (as is often the case with bacterial data). For example, consider a set of bacterial data comprised of 10 observations, with eight of the observations equaling two colonies per 100 ml and two observations equaling 500 colonies per 100 ml (indicative of a relatively clean water with occasionally high bacterial levels, perhaps caused by wildlife defecating near the site). The arithmetic mean or average of this data set would be 102 colonies per 100 ml, which does not reflect the fact that most of the observations are quite low. The geometric mean of this data set would be six colonies per 100 ml; thus, the geometric mean is a better representation of the bacterial data set. For sites that indicate minimal variability, we also calculated the median (the middle number when all observations are ordered in increasing order) average measure of the bacterial counts.

In order to calculate geometric means for the GBCW data, some adjustments to the data were necessary. First, on several of the sample dates, there were no fecal coliforms detected (0 colonies per 100 ml of water sample). Zero values cannot be used in calculating geometric means, so these observations were changed to have fecal coliform counts of one colony per 100 ml and reported as <1 colony per 100 ml. The second adjustment to the data relates to those samples for which coliform bacteria were too numerous to count (TNTC) the colonies on the plate. In the case of high values, the adjustment uses the minimum number of colonies known to be present. According to *Standard Methods* for fecal coliform procedures, a colony count between 20-80 is preferred. If a 100-ml of sample produced TNTC then 60 was entered as the count. When a 10-ml or 1 ml water samples were used as the dilution and count was TNTC, 600 and 6000 respectively were reported since these would be the calculations for colonies per 100 ml. By these methods, we are prevented from overestimating high counts that could not be documented. When calculating the medians for the GBCW data, adjustments to those observations that were too numerous to accurately count were calculated using the same formula implemented for the determination of geometric means. Zero values for calculating the median were not changed.

Great Bay Coast Watch Field Data Sheets

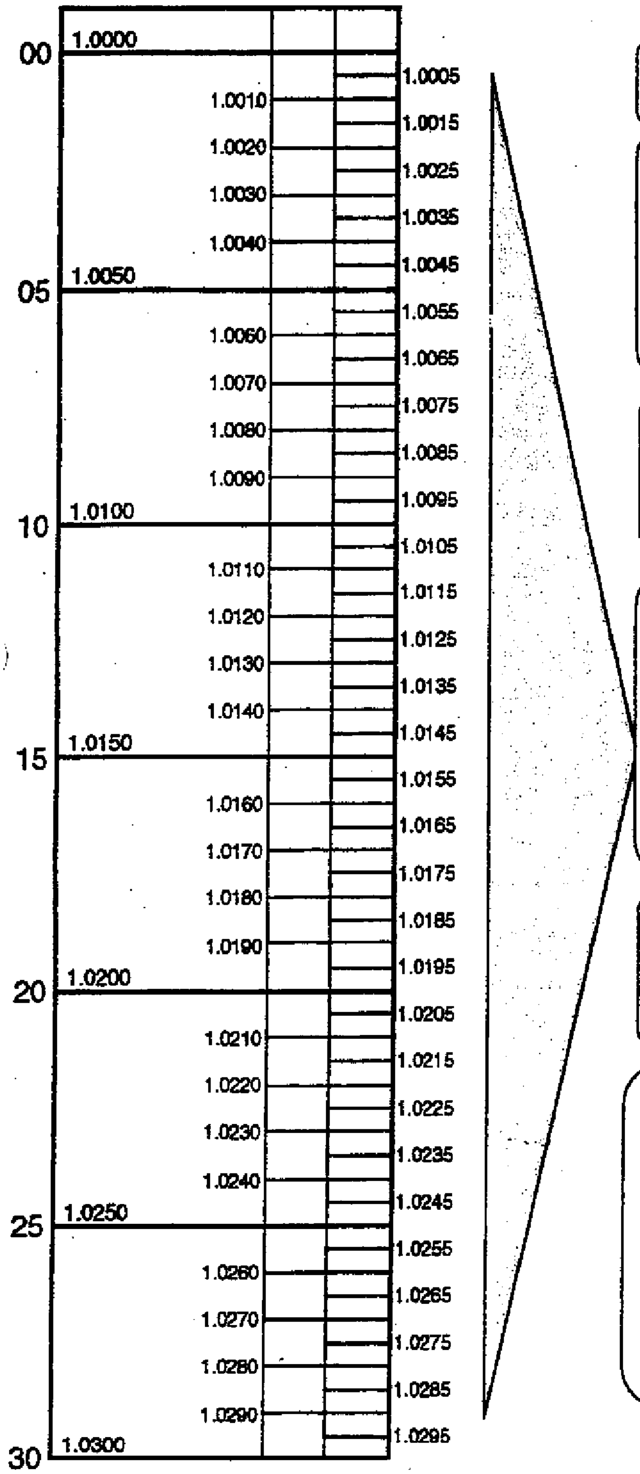
At the beginning of the 2001 sample year, Steve Engstrom revised the GBCW data sheets to comply with a request from NH Fish and Game that GBCW volunteers monitor horse shoe crab populations at the sites. Data sheets used by GBCW were previously revised by Shanna Hallas (1997), Damon Burt (1996), and completely re-designed by David Waltz (1995).

The front of the data sheet is strictly for the parameters that the GBCW tests, while the back of the sheet leaves room for personal observations. This latter section describes the site conditions and gives the volunteers the chance to report anything that may have an effect on the quality of the water, such as birds, changes in water surface, adjacent land use, recreational activities, etc. A sample of the data sheet is found on the next two pages.

GREAT BAY COAST WATCH FIELD DATA SHEET

Sampling Team (full names please)
1. ______________________________
2. ______________________________
3. ______________________________

Day ______________ **Date** __________
Tide ________ **Time** ____________
(H or L) (Military)
Site Number ________________
Site Name __________________



Air Temperature ______________ °C

Water Transparency:
________cm ________cm ________cm
disappear appear average
Water Depth __________________cm

Water Temperature ____________ °C
Thermometer # ______________

Salinity:
Hydrometer # ________________
Water Temp (jar) ______________ °C
Density ________________ g/cc
Salinity ____________ ppt (from chart)

pH:
Meter # ______ **Reading** _________

Dissolved Oxygen:
Bottle # ___________
Test 1 _______ ml **Test 2** _______ ml
Test 3 (only if diff > 0.3 ml) _______ ml
Total D.O. Reading ___________ mg/L

(over)

revised 2/19/2001

GREAT BAY COAST WATCH FIELD DATA SHEET

Please describe the conditions at your site today:

Water: Calm _____ Ripple _____ Waves _____ Whitecaps _____

Weather: Clear___ Partly Cloudy ___ Overcast ___ Fog/Haze__
Showers ___ Downpour ___ Snow ___ Other ___________

Activities: Fishing ___ Oystering ___ Boating ___ Hunting ___
Other ______________________________________

Fecal Coliform:
Person taking sample ______________________________
Person transporting sample __________________________

Birds: Type _____________ # ___
Type ______________ # ___
Type ______________ # ___

Rainfall in last 24 hrs: _______ in.

Horseshoe Crabs:
Total # seen: ________
young (< 2 in.):_____
amplexus:_________
laying eggs:_______

Please write an observation narrative:

____

____

____

____

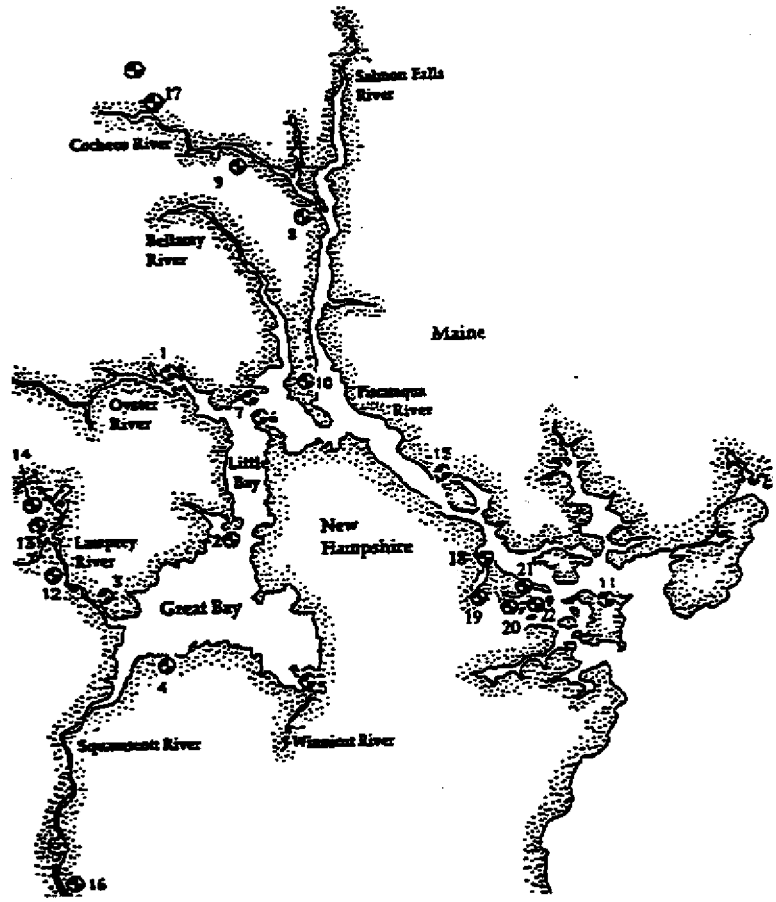
Time Estimates:

	Sampler 1	Sampler 2	Sampler 3
Field Work:			
Lab Work:			
Travel:			
Total			

FOR OFFICE USE ONLY		
	Date	Initials
Reviewed		
Entered		
Accepted		

Signature ______________________________ Date ________________
(QA/QC Qualified)

C. Summary of Great Bay Coast Watch Site Information



Composite Site Data

Table of Composite Site Data for 2002

Parameter	Units	Low tide	High tide
Water Temperature	Degrees Celsius	15.0	15.9
Salinity	ppt	17.0	20.5
Dissolved oxygen	ppm	8.4	9.0
Saturated Oxygen	%	90.3	102.1
pH	pH	7.4	7.5
Fecal Coliform	Counts per 100 ml	41	23
Transparency	Meter	0.98	1.56
Depth	Meter	1.47	2.88
Air Temperature	Degrees Celsius	15.1	18.1

The values for composite site data are based on averaging values of all the sites for each site parameter. For the parameter, fecal coliform, the value is a simple average of all the geomeans from each site.

The saturated oxygen was 90.3 % at low tide, above the state water quality standard of 75 %. Fecal coliform values were 41 counts per 100 ml at low tide and 23 counts per 100 ml at high tide. The average measurement of transparency at high tide was 1.56 m. The depth at high tide was 2.88 meters. Water temperatures were 15.0C and 15.9C for low and high tide respectively. Salinity values were 17.0 ppt and 20.5 ppt for low and high tide respectively. The composite water temperature values were lower than those from the 2001 season and the salinity values were higher than those from the 2001 season.

Tidal and Sampling Schedule for 2002 Season

GBCW conducts baseline water quality monitoring one day per month scheduled on the weekday closest to the full moon. From 1990 to 1997, GBCW sampled two days per month. Samples are collected at both the low and high tide of each sampling day. The sampling will reflect the worse case scenario for early morning dissolved oxygen readings. Each site has a specific time when GBCW volunteers sample, reflecting the lowest possible tide and the highest possible tide of each specific area. Each year's schedule is unique. The sampling schedule that the GBCW used was adapted using the Maine Geographic Calendar and Almanac, by DeLorme Maps of Freeport, Maine. (See the following pages.)

Tidal and Sampling Times for 2002 Season

		Adjustment	29-Apr	28-May	25-Jun	25-Jul	26-Aug	23-Sep	22-Oct	06-Nov
	LOW		7:28	7:11	6:08	6:38	8:02	6:53	6:19	5:22
	HIGH		13:44	13:28	12:23	12:52	14:12	13:02	12:27	11:35
Site 1	LOW	1:50	**9:18**	**9:01**	**7:58**	**8:28**	**9:52**	**8:43**	**8:09**	**7:12**
Peninsula - Oyster River	HIGH	1:45	**15:29**	**15:13**	**14:08**	**14:37**	**15:57**	**14:47**	**14:12**	**13:20**
Site 2	LOW	2:00	**9:28**	**9:11**	**8:08**	**8:38**	**10:02**	**8:53**	**8:19**	**7:22**
Jackson Laboratory	HIGH	2:00	**15:44**	**15:28**	**14:23**	**14:52**	**16:12**	**15:02**	**14:27**	**13:35**
Site 3	LOW	3:00	**10:28**	**10:11**	**9:08**	**9:38**	**11:02**	**9:53**	**9:19**	**8:22**
Lamprey River	HIGH	2:40	**16:24**	**16:08**	**15:03**	**15:32**	**16:52**	**15:42**	**15:07**	**14:15**
Site 4	LOW	2:45	**10:13**	**9:56**	**8:53**	**9:23**	**10:47**	**9:38**	**9:04**	**8:07**
Depot Road (Sandy Pt)	HIGH	2:45	**16:29**	**16:13**	**15:08**	**15:37**	**16:57**	**15:47**	**15:12**	**14:20**
Site 5	LOW	2:40	**10:08**	**9:51**	**8:48**	**9:18**	**10:42**	**9:33**	**8:59**	**8:02**
Portsmouth Country Club	HIGH	2:20	**16:04**	**15:48**	**14:43**	**15:12**	**16:32**	**15:22**	**14:47**	**13:55**
Site 6	LOW	2:00	**9:28**	**9:11**	**8:08**	**8:38**	**10:02**	**8:53**	**8:19**	**7:22**
Fox Point	HIGH	2:00	**15:44**	**15:28**	**14:23**	**14:52**	**16:12**	**15:02**	**14:27**	**13:35**
Site 7	LOW	1:50	**9:18**	**9:01**	**7:58**	**8:28**	**9:52**	**8:43**	**8:09**	**7:12**
Cedar Point	HIGH	1:55	**15:39**	**15:23**	**14:18**	**14:47**	**16:07**	**14:57**	**14:22**	**13:30**
Site 9	LOW	1:20	**8:48**	**8:31**	**7:28**	**7:58**	**9:22**	**8:13**	**7:39**	**6:42**
Cocheco River	HIGH	1:20	**15:04**	**14:48**	**13:43**	**14:12**	**15:32**	**14:22**	**13:47**	**12:55**
Site 10	LOW	1:20	**8:48**	**8:31**	**7:28**	**7:58**	**9:22**	**8:13**	**7:39**	**6:42**
Piscataqua River	HIGH	1:20	**15:04**	**14:48**	**13:43**	**14:12**	**15:32**	**14:22**	**13:47**	**12:55**
Site 11	LOW	0:16	**7:44**	**7:27**	**6:24**	**6:54**	**8:18**	**7:09**	**6:35**	**5:38**
Coastal Marine Lab	HIGH	0:16	**14:00**	**13:44**	**12:39**	**13:08**	**14:28**	**13:18**	**12:43**	**11:51**

Revised 02/07/2002

		Adjustment	29-Apr	28-May	25-Jun	25-Jul	26-Aug	23-Sep	22-Oct	06-Nov
	LOW		7:28	7:11	6:08	6:38	8:02	6:53	6:19	5:22
	HIGH		13:44	13:28	12:23	12:52	14:12	13:02	12:27	11:35
Site 12	LOW	3:00	**10:28**	**10:11**	**9:08**	**9:38**	**11:02**	**9:53**	**9:19**	**8:22**
Newmarket STP	HIGH	3:00	**16:44**	**16:28**	**15:23**	**15:52**	**17:12**	**16:02**	**15:27**	**14:35**
Site 13	LOW	3:00	**10:28**	**10:11**	**9:08**	**9:38**	**11:02**	**9:53**	**9:19**	**8:22**
Marina Falls Landing	HIGH	3:00	**16:44**	**16:28**	**15:23**	**15:52**	**17:12**	**16:02**	**15:27**	**14:35**
Site 14	LOW	3:00	**10:28**	**10:11**	**9:08**	**9:38**	**11:02**	**9:53**	**9:19**	**8:22**
Fowler's Dock	HIGH	3:00	**16:44**	**16:28**	**15:23**	**15:52**	**17:12**	**16:02**	**15:27**	**14:35**
Site 15	LOW	1:00	**8:28**	**8:11**	**7:08**	**7:38**	**9:02**	**7:53**	**7:19**	**6:22**
Patten Yacht Yard, Inc.	HIGH	1:00	**14:44**	**14:28**	**13:23**	**13:52**	**15:12**	**14:02**	**13:27**	**12:35**
Site 16	LOW	2:50	**10:18**	**10:01**	**8:58**	**9:28**	**10:52**	**9:43**	**9:09**	**8:12**
Exeter Docks	HIGH	3:10	**16:54**	**16:38**	**15:33**	**16:02**	**17:22**	**16:12**	**15:37**	**14:45**
Site 17	LOW	2:50	**10:18**	**10:01**	**8:58**	**9:28**	**10:52**	**9:43**	**9:09**	**8:12**
Dover Foot Bridge	HIGH	3:10	**16:54**	**16:38**	**15:33**	**16:02**	**17:22**	**16:12**	**15:37**	**14:45**
Site 18	LOW	1:16	**8:44**	**8:27**	**7:24**	**7:54**	**9:18**	**8:09**	**7:35**	**6:38**
Maplewood Ave	HIGH	1:16	**15:00**	**14:44**	**13:39**	**14:08**	**15:28**	**14:18**	**13:43**	**12:51**
Site 19	LOW	1:16	**8:44**	**8:27**	**7:24**	**7:54**	**9:18**	**8:09**	**7:35**	**6:38**
Bartlett St.	HIGH	1:16	**15:00**	**14:44**	**13:39**	**14:08**	**15:28**	**14:18**	**13:43**	**12:51**
Site 20	LOW	1:16	**8:44**	**8:27**	**7:24**	**7:54**	**9:18**	**8:09**	**7:35**	**6:38**
Junkins Ave.	HIGH	1:16	**15:00**	**14:44**	**13:39**	**14:08**	**15:28**	**14:18**	**13:43**	**12:51**
Site 21	LOW	1:16	**8:44**	**8:27**	**7:24**	**7:54**	**9:18**	**8:09**	**7:35**	**6:38**
Pleasant St.	HIGH	1:16	**15:00**	**14:44**	**13:39**	**14:08**	**15:28**	**14:18**	**13:43**	**12:51**
Site 22 Little Harbor School	HIGH	1:16	**15:00**	**14:44**	**13:39**	**14:08**	**15:28**	**14:18**	**13:43**	**12:51**

Revised 02/07/2002

Site Observations

This year started with a continuing drought, and ended with normal levels of rainfall for the year, while the water table did not reach normal until the beginning of winter. Many of our sampling days occurred during heavy rainfall, which tends to stir up the water. This results in lower secchi disk readings and salinity, while raising the DO. Depending on tide and location the fecal coliform counts could be higher due to turbulence or lower due to freshwater rinsing. Site 12 changed a lot due to the outflow pipe being relocated to the center of the river. The outflow pipe water has chlorine in it to kill bacteria, but not enough to affect the entire river (that would not be good). As a result, there are fecal coliform counts at this site, where it has always been "clean" in the past. Monitors' comments providing information about some of our results are provided below. Not all comments have been printed, due to time and space considerations, but we have tried to include those comments, which may in part explain some data results.

Table of GBCW Site Comments

Site	Date	Tide	Monitors' Comments
9 & 9 QAQC	9/23/2	L	Monitors' thermometer had multi split alcohol. Used site 17's and put air thermometer in bucket & cylinder. It matched both places. They will use air thermometer for both this afternoon, as well.
21	11/6/2	L	Gate Open
21	10/22/2	L	Gate was up.
21	11/6/2	H	Gate Open
21	10/22/2	H	Gate Open
21	9/23/02	L	Dam is Down (Closed).
21	9/23/02	H	City worker opening dam.
21	8/26/02	L	Dam was closed.
21	8/26/02	H	Dam Up
21	7/25/02	L	Dead Kingfisher was at rocks near high tide line. Dam Open
21	7/25/02	H	Dam Open
21	6/25/02	L	Dam was actually open.
21	5/28/02	L	Dam was closed today causing water to be high.
21	5/28/02	H	Dam closed when took sample. Water was still flowing over the spillways (very slowly). Slack high tide about 14:44 as listed. Water still going over spillways even after dam opened.
21	4/29/02	L	Dam closed – it's been closed since Friday at noon (at least).
20	10/22/02	L	Water low – Dam open.
20	9/23/02	L	Dam was still closed. Has been all weekend.
19	10/22/02	H	City had cleared up metal trash.
19	10/22/02	L	Lots of mummichogs. Metal trash floated from under bridge (up stream).
19	9/23/02	L	Water very cloudy with sediment from rain storm, pollution in pond, cooler, propane tank, big plastic cover on shore, sediment actually settled in the bucket.
19	9/23/02	H	Could just barley see secchi disk. This is unusual for our site. There was a lot more sediment in the water than we see normally.
19	4/29/02	L	Lot of water coming out of stormdrain and from Hodgdon Brook.
18	6/25/02	L	Lots of baby lobsters?/Shrimp? Small crabs, tiny fish.
18	6/25/02	H	pH meter (Site 18) is broken. We replaced batteries, which didn't help.
17 & 17 QAQC	8/26/02	L	Site 17's pH meter was 6.1 in test pH; QAQC's was 7.0. Site 17's meter might need to be re-calibrated.

17	7/25/02	H	Water has an odder this PM.
16	8/26/02	L	DO never went clear – recorded clearest. Water in river was "pea soup" green. Also, when pillows 1 and 2 added, many tiny bubbles appeared at the shoulder of the BOD bottle. This was not introduced by sampler! No bubbles were visible before pillows were added. (Sort of like Alka-Seltzer.)
16	8/26/02	H	Water was not as "green" as in AM.
16	7/25/02	L	Water very brown & turbid.
16	7/25/02	H	Water very dark & turbid (note transparency 25 cm). When pillow 3 was added – color was DARK brown!
14	9/23/02	H	Lots of duck feces on the dock – No ducks in sight.
14	6/25/02	L	Lots of duck feces on dock.
13	7/25/02	L	Water very yellow.
13	6/25/02	L	Lots of suds in the water.
13	4/29/02	H	Lots of foam on river.
12	9/23/02	H	No testing possible at site . . . due to a locked gate barring entrance into the facility itself.
12	8/26/02	L	In the water a bucket we picked up 4 comb jellies max 1 inch in length. We were unable to take a secchi disk reading because of our position on the shore. We could not get to water deep enough.
12	7/25/02	L	Standing on rocks/mudflats, waste odor, sampling spot has crevices, mud depressions – not able to do accurate water transparency. This site no longer has a wastewater discharge pipe; it does not have an outflow pipe. Sampling done from river edge.
12	7/25/02	H	There is no water pipe from which to take a sample. We headed straight down the slope from the gate (2nd gate).
12	6/25/02	L	Lots of dirty pollen floating in river.
9	11/6/02	H	We could not take the canoe to get to the site. The tide was too high & it was dangerous to go out. The samples were taken at the staircase.
9	9/23/02	L	The water thermometer #130 doesn't work, so we used the air thermometer in the salinity test & the water temperature. Checked with QAQC – water thermometer was the same as air thermometer in bucket and salinity.
9	9/23/02	H	See same site, day and L tide.
6	5/28/02	L	Seems that tide was slack 44 minutes after our assigned time. Both monitors noticed this.
5	11/6/02	H	Extremely high water, 2-3 ft higher than normal – flooding on fairway – site rock under water.
4	11/6/02	H	Wind very strong from N-NW (not normal direction) – waves ½ way up path to boat ramps. Waves breaking farther up – took sample starting thigh deep in hip boots in waves on the boat ramp. Couldn't take secchi disk reading, water very muddy.
3	11/6/02	H	Arrived at site at 13:50. Tide was already on the way out.
3	9/23/02	H	Slight wing blowing from Newmarket Landing to Bay – bad smell in air (Sewage smell). Never noticed before today.
3	7/25/02	H	Windy, sunny, some scum.
3	7/25/02	L	Foamy stuff in water & brown clumps of stuff.
3	6/25/02	L	Tide still ebbing at ½ knot.
3	5/28/02	H	Scummy stuff still around dock.
3	5/28/02	L	Scummy stuff around dock.
3	4/29/02	L	Dock (on 1 side) has 18" of foamy brown slime floating on top of water.
2	11/6/02	H	Causeway onto Adams Point washed over, waves going across road to other side. Very windy and rough.
2	10/22/02	H	Flow from 2 JEL Pipes.
2	10/22/02	L	Flow from 2 JEL Pipes.
2	9/23/02	H	Flow from 1 JEL Pipe.

2	9/23/02	L	JEL personnel in mudflat doing samples and digging.
2	7/25/02	H	Boat docked on long side of dock. Sample taken form right of where usual.
2	5/28/02	H	Coastal surveyor boat pulled up to dock, sample taken south of where usual.
2	5/28/02	L	Flow from 2 JEL Pipes.
2	4/29/02	H	Gulf Challenger docked, sample taken to right of usual place. Flow from 2 JEL Pipes.
1	11/06/02	H	Water has a greenish tint look. Very high tide.
1	8/26/02	H	pH meter: batteries changed. Saved samples and did test at 09:00 on Tues 8/27.

D. Data Analysis

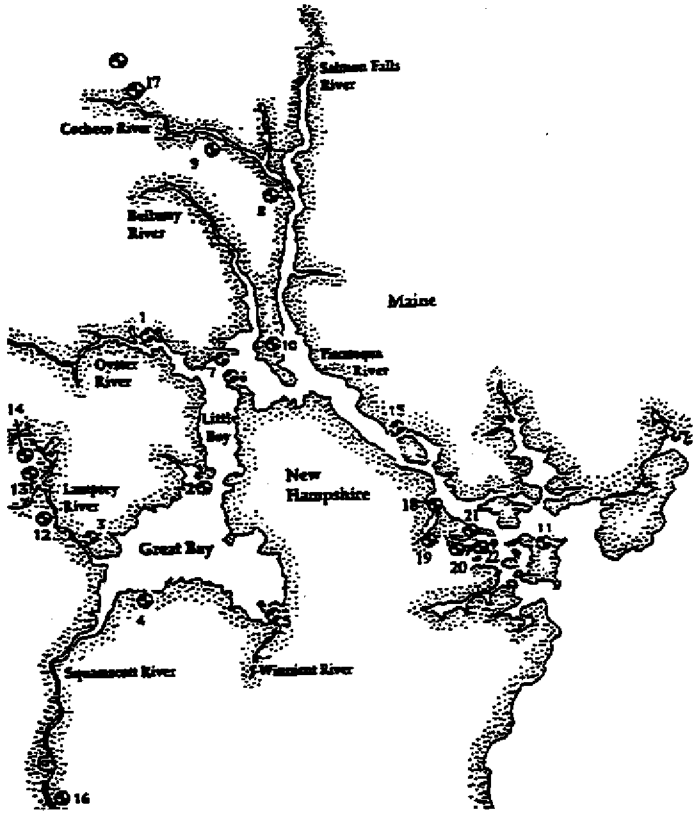
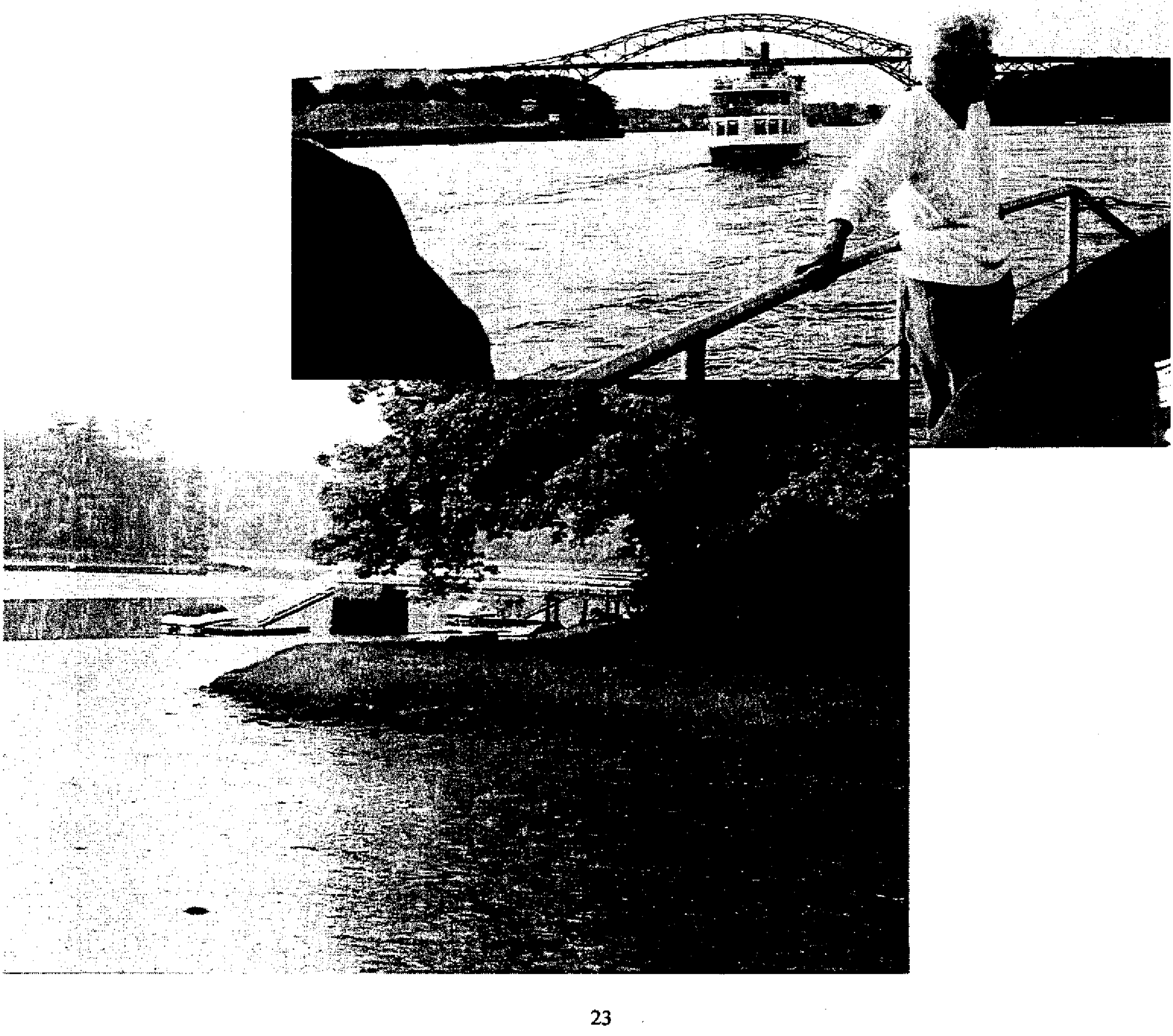


Table of Great Bay Coast Watch Sites: Locations, Towns and Year Sampling Began

Site Name	Site #	Location	Town	Year Started	Comments
Peninsula	1	Oyster River	Durham	1990	
JEL	2	Great Bay	Durham	1990	
Lamprey River	3	Lamprey River	Newmarket	1990	
Depot Road	4	Great Bay	Greenland/ Stratham	1990	High tide only as of 1993
PCC	5	Winnicut River	Greenland/ Stratham	1990	
Fox Point	6	Little Bay	Newington	1990	
Cedar Point	7	Little Bay	Durham	1990	
Rakoskes'	8	Piscataqua River	Dover	1990	Inactive as of 1992
Neal's	9	Cochecho River	Dover	1990	
Clark's	10	Piscataqua River	Dover	1991	
CML	11	Piscataqua River	New Castle	1991	
STP	12	Lamprey River	Newmarket	1992	
Marina Falls Land.	13	Lamprey River	Newmarket	1992	
Fowler's	14	Lamprey River	Newmarket	1992	
Patten Yacht Yard	15	Piscataqua River	Eliot, Me	1993	
Exeter Docks	16	Squamscott River	Exeter	1994	
Dover Foot-Bridge	17	Cachet River	Dover	1996	
Maplewood Ave.	18	North Mill Pond	Portsmouth	1997	
Bartlett Ave.	19	North Mill Pond	Portsmouth	1997	
Junkins Ave.	20	South Mill Pond	Portsmouth	1997	
Pleasant Ave.	21	South Mill Pond	Portsmouth	1997	
Little Harbor	22	Little Harbor	Portsmouth	1998	High tide only

Town and Site Descriptions

This section characterizes each site in the GBCW network. For each site, we provide a brief description of the sampling location and a summary of water quality statistics using all of the data in each site's records (Appendix I). The sites are generally grouped by river system, with sites furthest from the ocean discussed first. This grouping also separates each municipality, so that a clear picture of the estuarine water quality can be provided for each town.



Exeter, Stratham, and Greenland

Volunteers cover the one site in Exeter. Water-quality data is collected at two sites in the town of Greenland, with one of the sites adjacent to the Greenland/Stratham town line.

Site 16: Exeter Town Docks

This site is on the Squamscott River, located downstream of the tidal dam in downtown Exeter and upstream from the crew docks at Phillips Exeter Academy. It was added to the program in 1994 and is one of our farthest upstream sites.

Over the last nine sampling seasons, this site has one of the highest average temperature values and tidal temperature difference values: 16.8°C at low tide and 18.7°C at high tide. This season, the average temperature values were16.8°C at low tide and 17.4°C at high tide. The average value for percent saturation of dissolved oxygen at low tide was 113.5 %, well above the class B standards. Salinity increased slightly to 5.9 ppt at high tide compared to last year's average. The transparency at low tide was 65 cm, while the high tide transparency decreased to 61 cm. Low tide pH was 7.5 and at high tide was 7.8. Fecal coliform counts for this season have decreased from last season, with a low tide geometric mean of 193, and a geomean of 64 at high tide. These fecal coliform counts are one of the highest noted in the 2002 sampling season.

Site 4: Depot Road, Sandy Point

Site 4 is located on the southern shore of Great Bay at the Great Bay National Estuarine Research Reserve's Sandy Point Discovery Center. Because of the extensive mud flats exposed at low tide at this location, samples can only be collected at high tide. The average temperature was 16.9°C, warmer than at nearby Adam's Point. The salinity at high tide was 12.6 ppt, which is lower than the 12 year average for this site. Site 4 had a high tide average pH of 7.5. The high tide dissolved oxygen percent saturation averaged 106.2 %. High tide transparency was steady at 50 cm, but this was the maximum depth at the site. The fecal counts at high tide were at a geometric mean of 7 counts. The overall quality of the water is excellent, with bacteria levels an order of magnitude less than the ranges observed at the Exeter docks.

Site 5: Winnicut at Portsmouth CC

Site 5 is located at the mouth of the Winnicut River. It sits on the east bank of the river at the Portsmouth Country Club. The County Club's #4 fairway leads down to where GBCW volunteers sample. The average temperature at low and high tide was 14.9°C and 16.9°C respectively. This tidal temperature difference is one of the highest in the GBCW network. Dissolved oxygen percent saturation at low tide was 77.2 %. On many sampling dates, saturation levels were below the Class B standard of 75 %, most likely due to natural causes. High tide dissolved oxygen saturation averaged 103.4 %. Salinity levels reflect trends due to the site's tidal variability, averaging 11.5 ppt at low tide, and 24.6 ppt at high tide. Low tide pH readings were 7.1, while high tide readings were 7.6. This year, transparency dropped slightly to 78 cm at high tide and water depth averaged a steady 103 cm. Fecal coliform counts at low tide increased this year to a geomean of 51, while high tide counts remained low at a geomean of 3.

Newmarket

GBCW monitors four sites in the town of Newmarket on the Lamprey River.

Site 14: Fowler's

Site 14, the only freshwater site in the GBCW network, is just upstream of the tidal dam (and upstream of downtown Newmarket) at the Fowler's dock on the Lamprey River. There are no low and high tide fluctuations at this site, so the difference in sampling times is described by AM (when all other sites are measuring low tide) and PM (when all other sites are measuring high tide). The water temperature averaged 15.9°C for AM readings and 17.1°C for PM readings. Dissolved oxygen saturation was 82.9 % for AM readings, and 87.3 % for PM readings. Salinity in the AM and PM readings was less than 1.0 ppt, indicating fresh water. Transparency values averaged 176 cm in the AM and 184 cm in the PM. The pH readings for both AM and PM averaged 7.1. For both morning and afternoon samples, the fecal coliform counts had a geomean of 18, more than twice the 2001 values.

Site 13: Marina Falls Landing at Newmarket

Site 13 is located at a small boat docking facility upstream of the Town Docks in downtown Newmarket and on the Lamprey River. This site is upstream of the wastewater treatment facility, and downstream of Fowler's and the dam marking head-of-tide. Temperature at this site was 16.6 C for low tide and 17.1 C for high tide. The dissolved oxygen percent saturation of 96.9 % at low tide and 106.3 % at high tide was one of the highest of all the sites monitored, possibly due to the aeration effect of the dam. The pH averaged 7.3 for low tide and 7.4 at high tide. Salinity at this site was less than 6 ppt for both tidal cycles. Transparency stayed steady at 113 cm during high tide. Fecal coliform geomean counts increased this year to 29 for low tide and 52 for high tide. The fecal counts had been in the low teens during the previous three years.

Site 12: Newmarket Waste Water Treatment Facility

Site 12 is located on the shoreline just below the Newmarket Waste Water Treatment Facility (WWTF) and downtown Newmarket on the Lamprey River. In previous years, substantial mud flats required that low tide samples be taken close to the outlet of the treatment plant. Thus, low tide values were an indication of the performance of the outflow pipe from that facility. In 2002, the sampling location was moved to 20 feet off shore to the right of a large rock. The outflow pipe is now buried in the middle of the river. This site is downstream of the boat docking facility at Marina Falls Landing and upstream of Towne's dock.

Average low tide temperatures at this site averaged 16.4 °C at low tide, with 16.3 °C at high tide. The dissolved oxygen percent saturation was noticeably variable between low tide and high tide. The low tide value was 99.6%. However, that is the effluent not the river water. The high tide values were well above the Class B standard with 107.7 %, following a three-year trend. Salinity was relatively low at an average of 7.5 ppt at low tide and 4.7 ppt at high tide. The average transparency at high tide decreased significantly from 85 cm to 34 cm and the average depth for high tide decreased from 95 cm to 49 cm, as well. The pH at both tides was 7.2. The fecal coliform geomeans at low tide were 140, while the high tide counts had a geomean of 68. Reversing a trend, the geomeans of these fecal coliform counts are some of the highest in the 2002 data. In previous years, fecal coliform counts at the WWTF have been some of the lowest in the GBCW network due to chemical treatment upgrades at the plant.

Site 3: Towne's dock (formerly Weinert's dock)

Of the four GBCW sites on the Lamprey River, Site 3, which is located one lot downstream from Weinert's dock, is closest to where the Lamprey River enters Great Bay. The water temperature at this site was similar to all of the other sites along this river, averaging 18.5 °C at low tide and 17.1 °C at high tide. The dissolved oxygen percent saturation was 92.6 % during low tide and 114.1 % during high tide. The salinity at this site was 11.1 ppt at low tide and 12.6 ppt at high tide, the highest of the Lamprey River sites. Transparency averaged 110 cm for high tide, a slight increase from the 2001 value. The depth averaged 272 cm at high tide. Low and high tide pH readings averaged 7.1 and 7.2 respectively. This site's fecal coliform geomeans remained steady at 25 for both low and high tide. Annual low tide fecal coliform has dropped considerably during the last nine years, from 760 counts in 1992 to 25 counts in 2002.

Durham and Newington:

The GBCW monitors one site in Newington (Fox Point) and three sites in the town of Durham (one site on the Oyster River, one on Great Bay, and one on Little Bay).

Site 2: Jackson Estuarine Laboratory

Site 2 is located at the University of New Hampshire's Jackson Estuarine Laboratory on Adams Point, approximately where Little Bay and Great Bay meet, at the eastern tip of Great Bay. Comparing this site with the GBCW sites in Greenland (Depot Road and Portsmouth CC) give us a useful overall picture of the water quality of Great Bay. Average Site 2 low tide temperature was 14.4 °C, and high tide temperature was 15.1 °C. The dissolved oxygen percent saturation was 97.0 % at low tide, and 98.8 % at high tide. The salinity was 27.8 ppt at low tide, with 27.9 ppt at high tide. Transparency averaged 190 cm at this deep-water site with a high tide depth of 386 cm. The fecal coliform levels remained steady and low, with low and high tide geomeans of 3 and 2 counts per 100 ml respectively.

Site 1: Peninsula

Site 1 is located at the Smith's dock, upstream of Bunker Creek on the north bank of the Oyster River. This site is downstream of the Durham Waste Water Treatment Facility, and relatively closer to the river's tidal mouth than to the tidal dam in downtown Durham. The average water temperature was 14.3 °C at low tide and 16.5 °C at high tide. The dissolved oxygen saturation averaged 75.5 % at low tide, just above the Class B standard of 75 %, and 99.4 % at high tide. In previous years, the low tide dissolved oxygen values averaged in the mid-nineties. The salinity is steady at this site, and was 21.2 ppt at low tide and 26.0 at high tide. Transparency measured an average of 162 cm at high tide and the depth averaged 351 cm. The fecal counts had geomeans at 24 for low tide and 2 at high tide, similar to 2001 and a improvement over previous years.

Site 7: Cedar Point

Site 7 is located at the Rosholt's dock on Cedar Point, across Little Bay from Fox Point. This site is on the north shore of Little Bay between the mouths of the Oyster and Bellamy rivers. The average temperature at this site was 14.6°C at low tide and 14.3°C at high tide. These temperatures were similar to the temperatures directly across the bay at Fox Point. The dissolved oxygen percent saturation was 89.9 % during low tide and 90.2 % at high tide. The salinity was 27.4 ppt at low tide, while the high tide salinity was 29.0 ppt. Transparency at high tide was 260 cm. The depth at high tide was 319 cm. The pH for this site averaged 7.7 at both tides. The fecal coliform geomean at low tide was 3 counts, while the high tide geomean was 2 counts.

Site 6: Fox Point

Site 6 is located at Fox Point, where Little Bay's north-south orientation takes a sharp bend to the east. The mouth of the Oyster River is located just to the west, while the mouth of the Bellamy River is just to the north. The Fox Point site is located directly across Little Bay from Cedar Point. Average temperatures at this site were 15.0 °C at low tide and 13.7 °C at high tide. The dissolved oxygen percent saturation was 91.2 % at low tide and 92.7 % at high tide, well above the Class B standard of 75 %. Salinity was 28.2 ppt at low tide and 29.8 ppt at high tide. Transparency at this site was very similar to that of Cedar Point, with an average of 254 cm at high tide. The depth averaged 748 cm at high tide. The geomeans of the fecal coliform counts were 2 at both low tide and high tide, similar to sites 2 and 7.

Dover

The GBCW monitors three sites in the city of Dover. Two sites are located on the Cochecho River, while the other is on the Piscataqua River.

Site 17: Dover Footbridge

Site 17 was started in August of 1996 and is sampled from the new Dover footbridge, near Central Avenue in downtown Dover. This upstream site had the lowest salinity of all Dover sites The average low tide temperature was 15.4°C and 16.3°C for high tide. The dissolved oxygen percent saturation at low tide was 96.8 %, while the high tide dissolved oxygen saturation was 100.3 %, similar to the other two Dover sites. The salinity was 2.1 ppt at low tide and 4.4 ppt at high tide. The pH averages for both tides was 7.3 at this site. Transparency at high tide was 130 cm, down from 150 cm the previous sampling season. The average depth at high tide was 366 cm, an increase compared to the previous year. The geomeans of fecal coliform were 91 counts at low tide, and 144 counts at high tide, higher than those of 2001.

Site 9: Neal's

Site 9 is located at the Neal/Williams property, near the mouth of Fresh Creek on the Cochecho River. It is upstream from the Dover Waste Water Treatment Facility, and between the Footbridge and the Clark's site. Average temperatures at Site 9 are 14.5°C at low tide and 16.6°C at high tide. The dissolved oxygen percent saturation was 89.5 % at low tide and 108.1 % at high tide. Salinity was 10.0 ppt and 15.1 ppt for low and high tides, respectively. These values were between the observed upstream level at the Footbridge and downstream at Clark's. Transparency at this site was 90 cm at high tide, with a 243 cm average high tide depth. Both the transparency and depth levels were significantly lower than those of 2001 were. A canoe is used at high tide. In 2001, several samples were taken from mid-river and not sampled at the low tide. This site's pH averaged 7.1 for both tides. The fecal coliform levels were 85 counts at low tide and 16 at high tide. These levels were similar to the 2001 season.

Site 10: Clark's

Site 10 is located at the Clark's property, now Peterson's, off Dover Point Road, downstream of Neal's and upstream of the Patten Yacht Yard. This site is below the outfall of the Dover Wastewater Treatment Facility and Sturgeon Creek. The creek empties into the Piscataqua River from the Maine side. The site was moved from the nearby Dube property in 1996. Average water temperatures at Clark's were 15.6°C at low tide and 16.3°C at high tide. The dissolved oxygen percent saturation was 91.6 % during low tide and 99.3 % during high tide. Salinity was, as expected, lower than the downstream Patten Yacht Yard, yet higher than Neal's (18.3 ppt at low tide and 27.0 ppt at high tide). Transparency at high tide averaged 188 cm and the depth at high tide averaged 324 cm. The pH averaged between 7.5 at both low tide and high tides. The fecal coliform had a geomean of 18 counts at low tide and 3 at high tide, similar to 2001's readings.

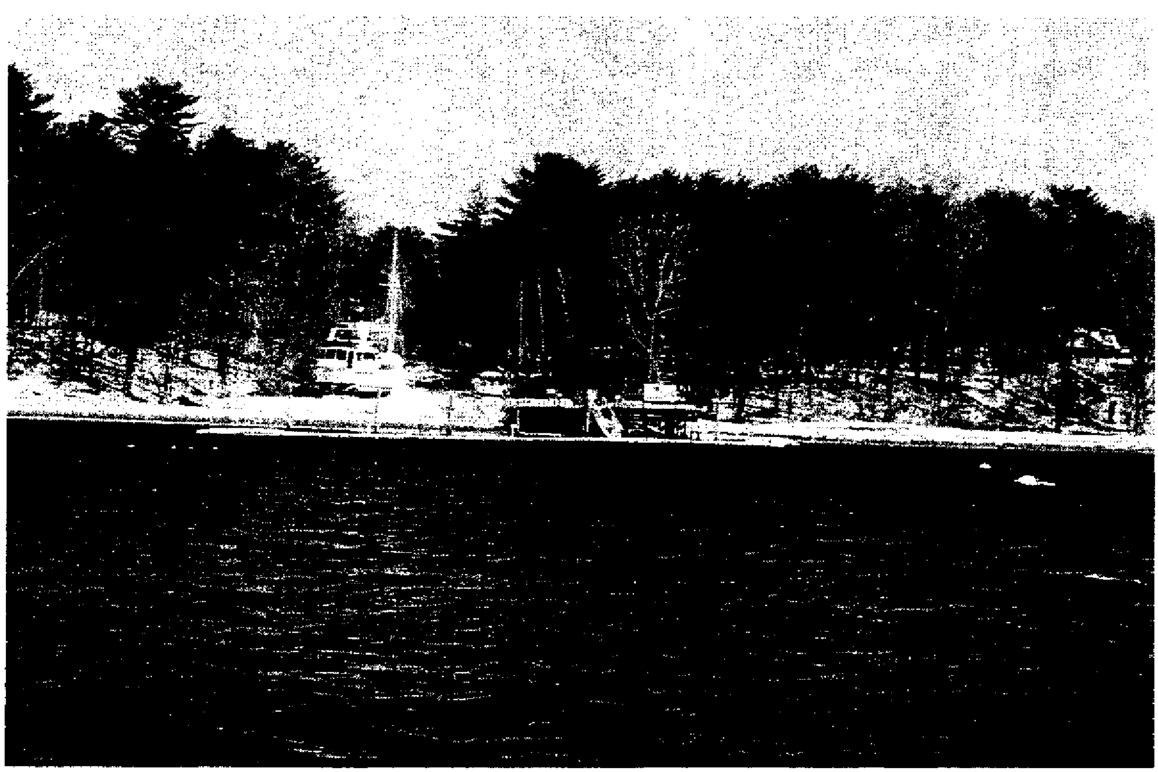
Eliot, Maine:

GBCW volunteers from Marshwood High School monitor one site in the town of Eliot, Maine.

Site 15: Patten Yacht Yard Inc.

Site 15 is located in the lower Piscataqua River, upstream from Portsmouth, at the dock of the Patten Yacht Yard, Inc. in South Eliot, Maine. Key indicators of water quality at this site are strongly influenced by tidal exchange. Therefore, temperature readings are quite low (second coldest), and salinity readings are typically the highest in the network.

Average temperatures were 13.3°C at low tide and 13.0°C at high tide. The dissolved oxygen percent saturation was 88.9 % at low tide and 93.1 % at low tide, well above the Class B standard of 75 %. Salinity was 30.1 ppt at low tide and reached 31.8 ppt at high tide. Average low tide pH reading was 7.4 and high tide pH readings averaged 7.6. Transparency at high tide averaged 378 cm. The depth averaged at high tide averaged 610 cm. The fecal coliform geomeans remained consistently low, with counts of 2 for both tides.



Portsmouth

GBCW monitors five sites in the city of Portsmouth. Two sites each are located on South Mill Pond and North Mill Pond. Both ponds are tidal, however South Mill Pond has tide gates that are periodically lifted to drain the system.

An additional Portsmouth site, the newest in the network, is located at the Little Harbor School below the South Mill Pond outlet and south of the main harbor.

Site 18: Maplewood Avenue

North Mill Pond is located on the west side of the Piscataqua River, just upstream from downtown Portsmouth and the Port of New Hampshire. Salt piles owned by Granite State Minerals are located adjacent to the pond. Site 18 volunteers sample at a floating dock on the eastern side of the Maplewood Avenue Bridge near Cindy Ann Cleaners. This site's proximity to the ocean accounts for its cold average temperature readings (13.7°C at low tide and 14.9°C at high tide). Small differences in temperature at high and low tides are typical of open ocean sites. The dissolved oxygen percent saturation was 82.9 at low tide and 93.4 % at high tide. The pH at site 18 averaged 7.4 at low tide and 7.6 at high tide. This site usually shows high salinity, with little variation (this season's 26.8 ppt at low tide and 30.0 ppt at high tide were typical). Transparency was 211 cm at high tide, with an average depth of 270 cm. Fecal coliform geomeans were 13 counts observed at low tide and 2 counts at high tide—similar to that of 2001.

Site 19: Bartlett Avenue

Site 19 is located at the far end of North Mill Pond near Ricci's Supply Company, Inc. Average temperatures at Site 19 were slightly higher than at Maplewood on the other side of the pond (14.0°C at low tide and 16.3°C at high tide). The dissolved oxygen percent saturation was 91.0 % at low tide and 94.1 % at high tide. Salinity was markedly lower than at Maplewood (1.5 ppt at low tide and 8.1 ppt at high tide). The upstream end of the pond is at the Hodgson Brook inlet and therefore the water is mixed with less tidal waters and more fresh water, yielding low salinity readings. The average high tide transparency was 71 cm with a depth of 71 cm at high tide. The average pH was 7.5 and 7.6 for low and high tides, respectively. Fecal coliform geomeans were 67 counts at low tide and 49 counts at high tide, which is relatively high, but lower than the previous years.

Site 20: Junkins Avenue

South Mill Pond is also located on the west side of the Piscataqua River, just south of downtown Portsmouth. The Pond is bisected by Junkins Avenue, which allows circulation to the upper portion of the Pond through two culverts under the road. This pond has manual floodgates and a spillway, with the floodgates opened intermittently. Site 20 is located next to the South Playground across the upper Pond from Portsmouth Middle School. Average water temperatures at Site 20 were about midrange for all the sites in the GBCW network, (14.9°C at low tide and 17.6°C at high tide). The dissolved oxygen percent saturation was 86.7 % at low tide and 107.9 % at high tide. Salinity was 26.7 ppt at low tide and 27.7 ppt at high tide. Transparency at high tide was steady at 33 cm with the bottom visible at a depth of 33 cm as well. The pH at this site was 7.8 at low tide and 7.7 at high tide. The fecal coliform geomeans decreased significantly this year to 10 counts at low tide and 13 counts at high tide.

Site 21: Pleasant Street

Site 21 sampling is done from the bridge over the outflow of the pond on Pleasant Ave., near Route 1-B. Average temperatures at Site 21 were 14.1°C at low tide and 15.8°C at high tide. The dissolved oxygen percent saturation was 82.0 % at low tide and 97.3 % at high tide, lower than at Junkins, but above the Class B standard. The salinity at Site 21 was high due to its close proximity to the ocean, 28.8 ppt at low tide and 30.0 ppt at high tide. Transparency was 184 cm at high tide with a bottom visible depth of 184 cm at high tide as well. Low and high tide pH readings were both 7.6. The fecal coliform geomeans were 6 counts at low tide and 2 counts at high tide, a decrease from the 2001 season.

Site 22: Little Harbour School

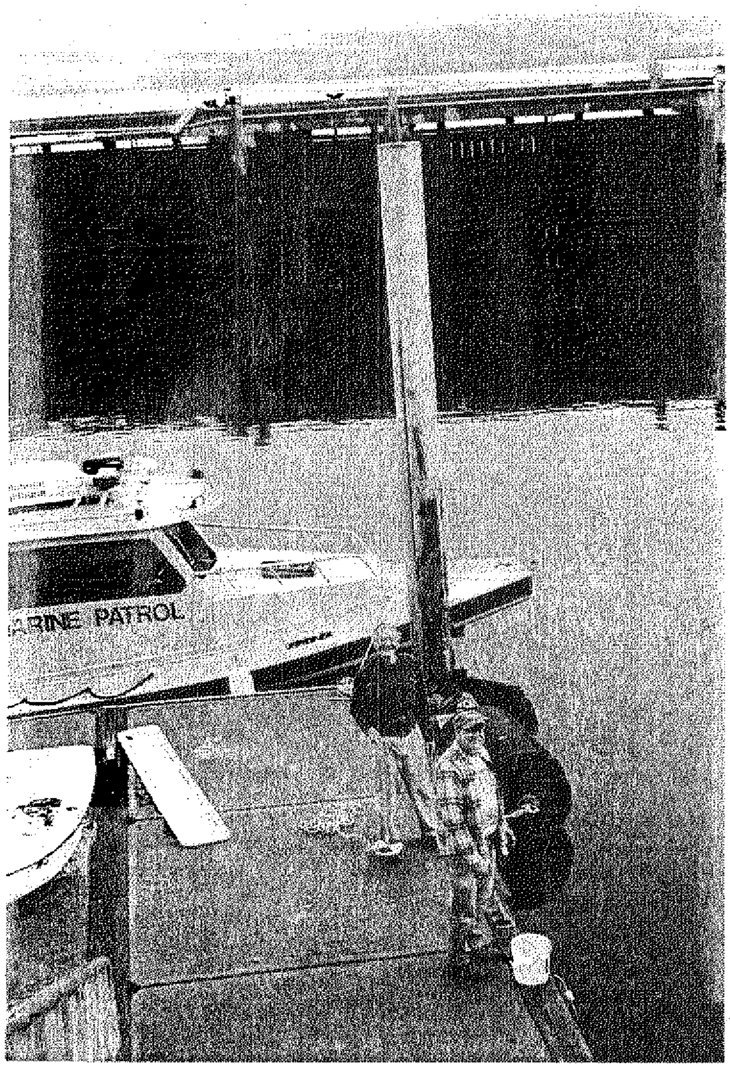
Site 22 is GBCW's newest site, starting in 1999. Sampling is done here only at high tide. Teachers and students of Little Harbour School perform the monitoring from a local dock. Little Harbour School is located on Little Harbour, south of the main harbor in Portsmouth. The average temperature was 16.3°C (high tide only). Dissolved oxygen percent saturation at high tide for this site was 118.1 %. The salinity was consistently high at 32.0 ppt. Transparency was 158 cm (with the bottom visible at a depth of 158 cm). The high tide fecal coliform geomean was 2 counts.

New Castle

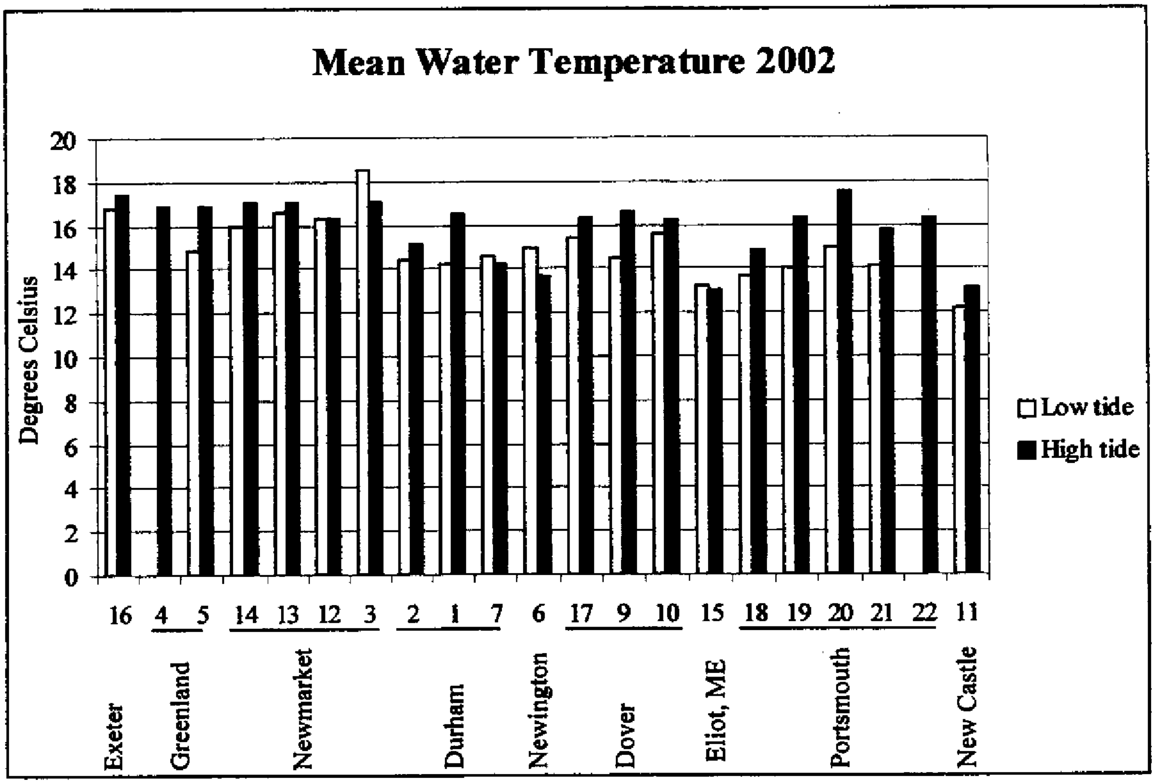
GBCW volunteers monitor one site in the town of New Castle. Staff members of the New Hampshire Coastal Program also sample once a month from a dock adjacent to the sample site, and the data are compiled as Quality Assurance Quality Control (QAQC) reference data.

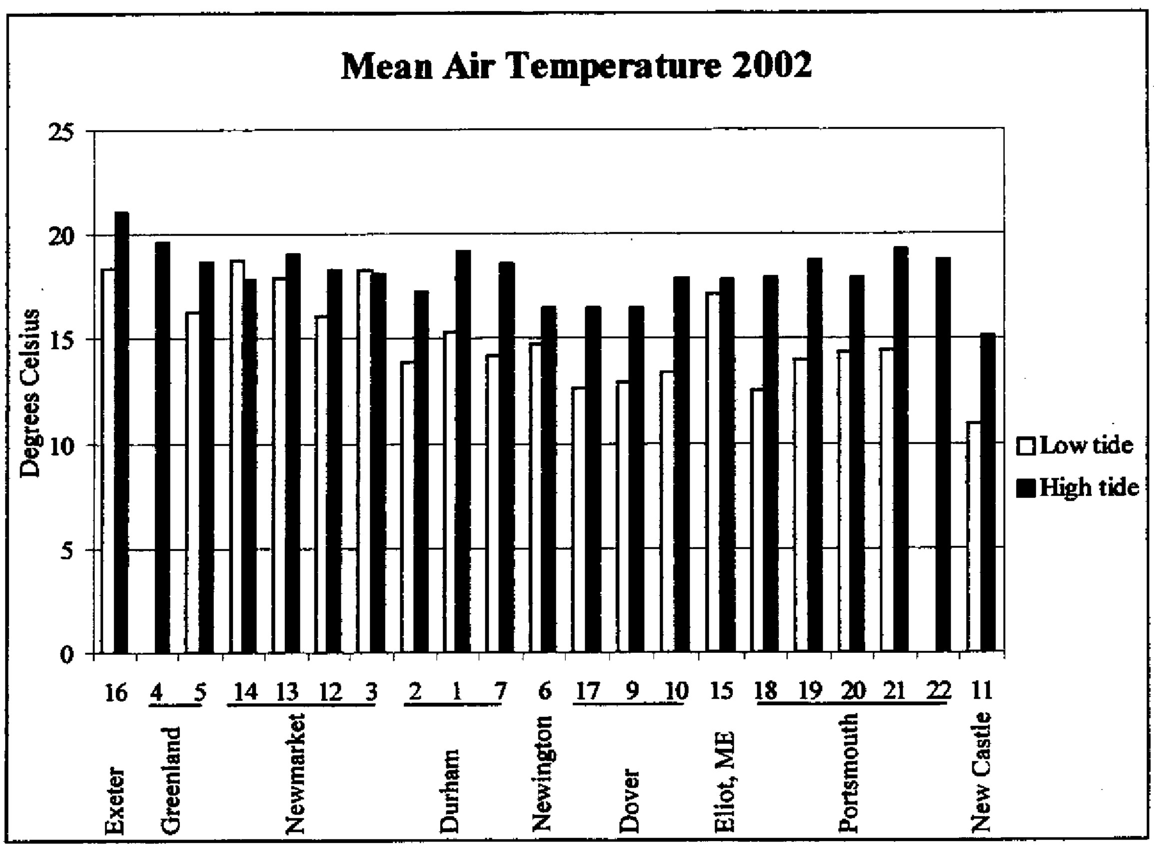
Site 11: Coastal Marine Lab

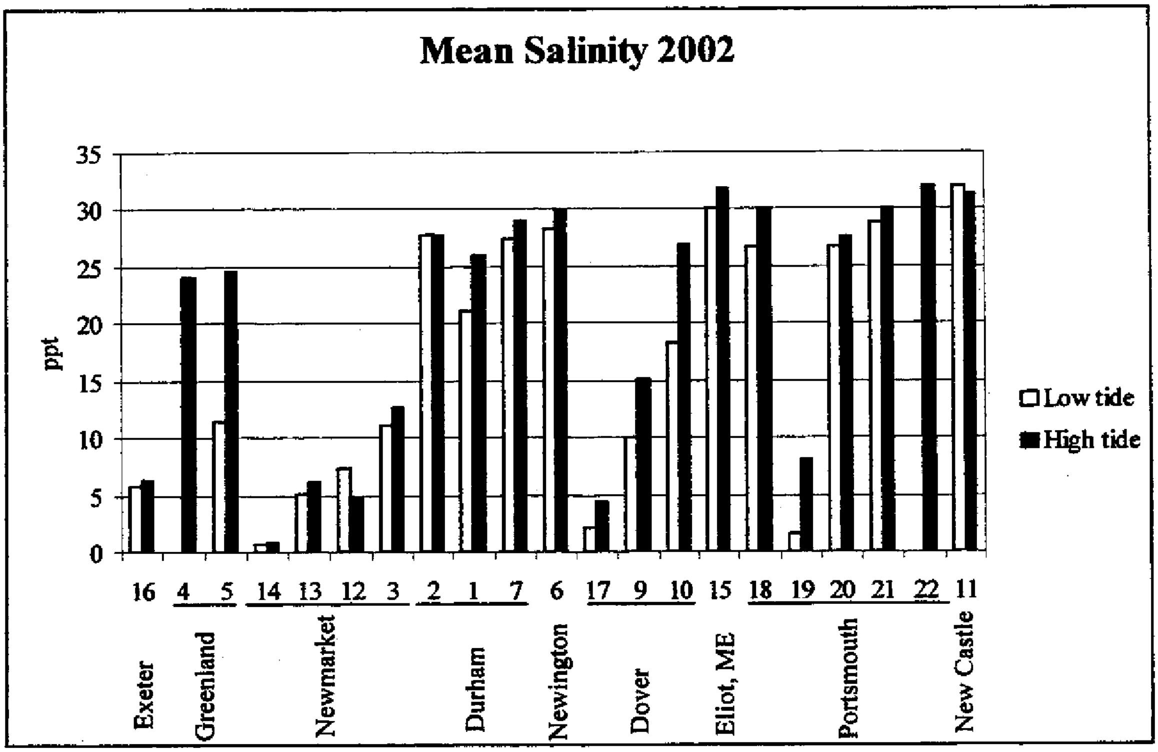
Located at the U.S. Coast Guard Station and the UNH Coastal Marine Lab in New Castle, Site 11 is where the Piscataqua River meets the Atlantic Ocean. Ocean water temperatures at Site 11 are typically the coldest in the network averaging 12.2°C at low tide and 13.1°C at high tide. The dissolved oxygen percent saturation was at 89.3 % at low tide and 91.1 % at high tide, considerably above the Class B standard of 75 %. The salinity readings were 32.0 ppt at low tide and 31.4 ppt at high tide, often the highest and most stable salinity values in the network. The pH was 7.8 for both low tide and high tide. These are our clearest and deepest waters, with an average transparency of 342 cm at high tide and a depth of 506 cm. Fecal coliform geomeans were 2 counts at low tide and 1 count at high tide, with very little variability during the season and since sampling began in 1992.

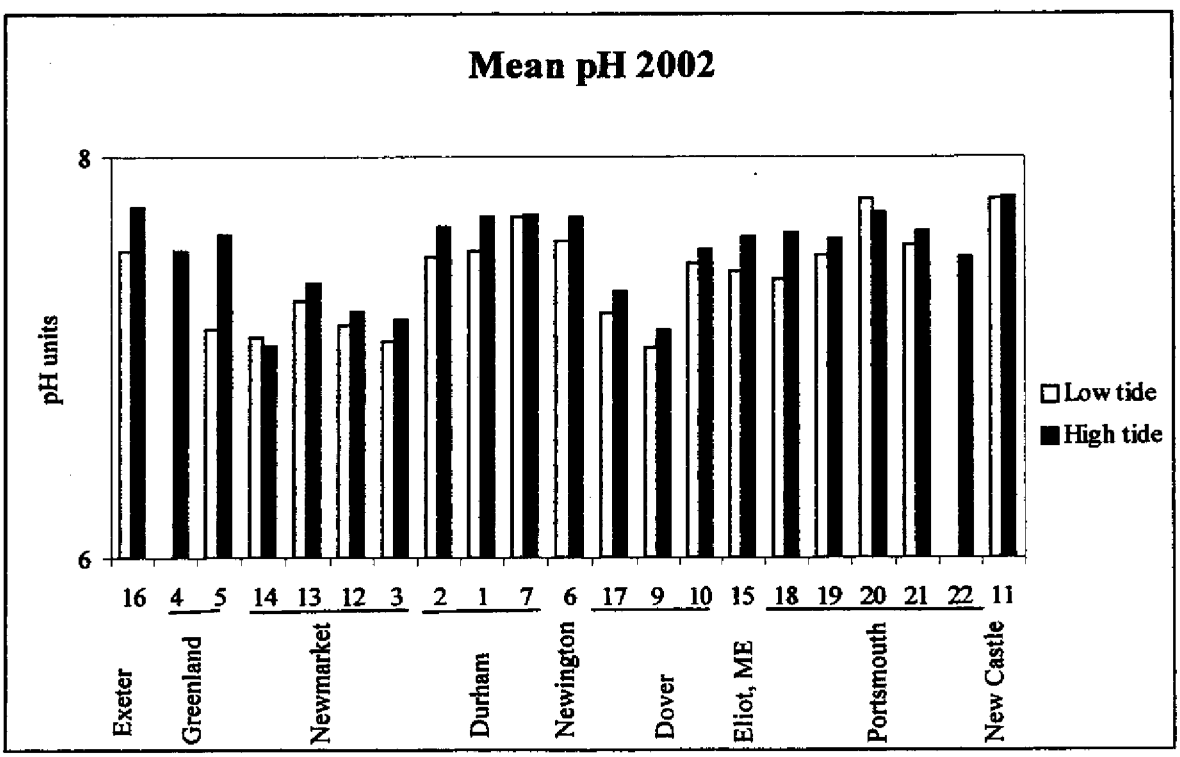


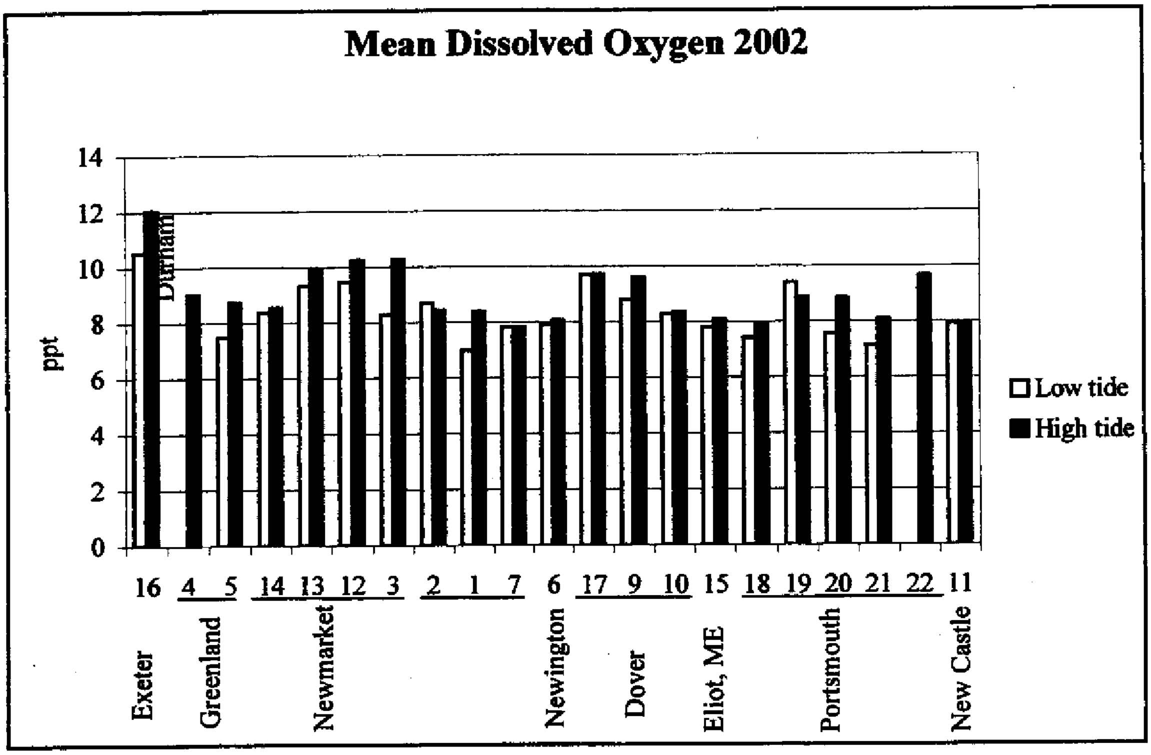
2002 Mean Value Graphs

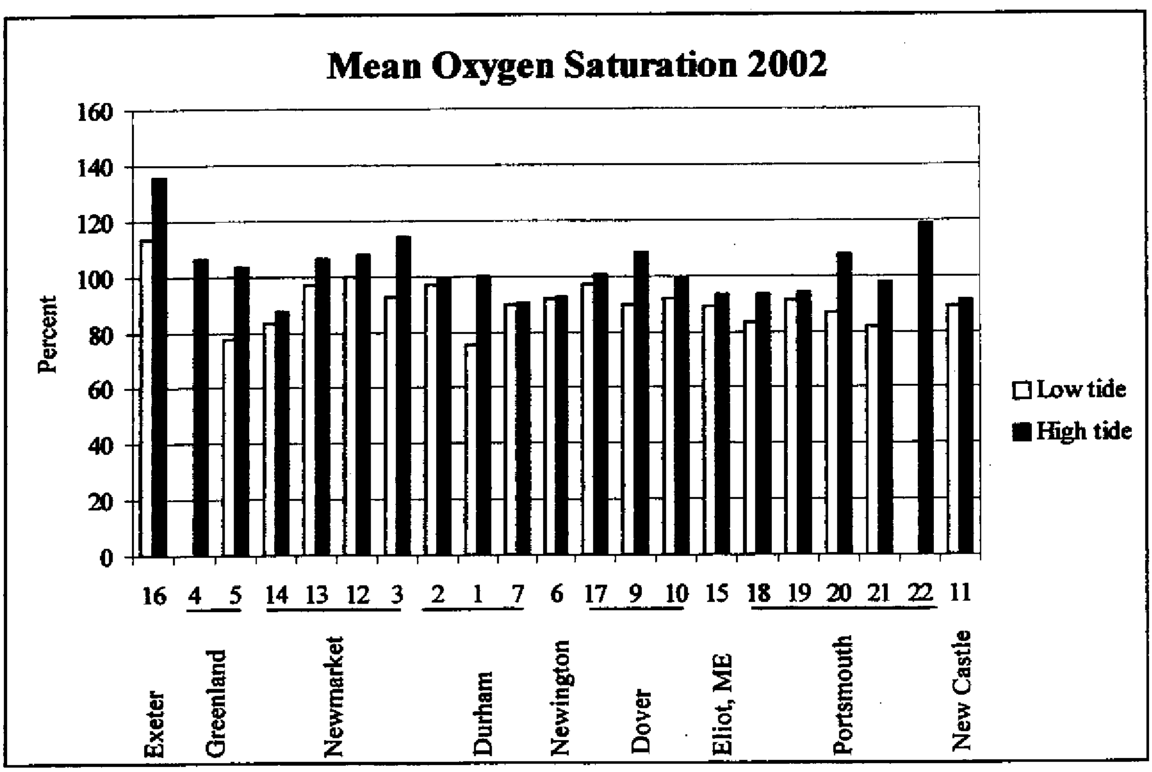


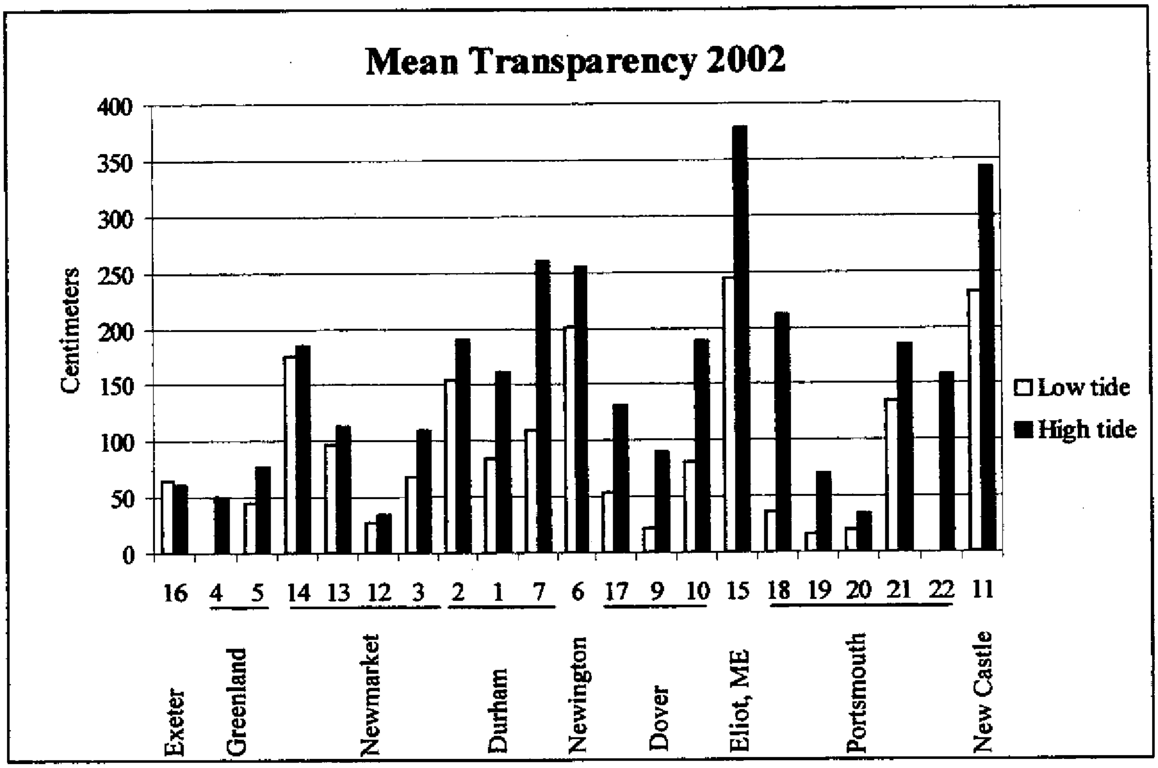


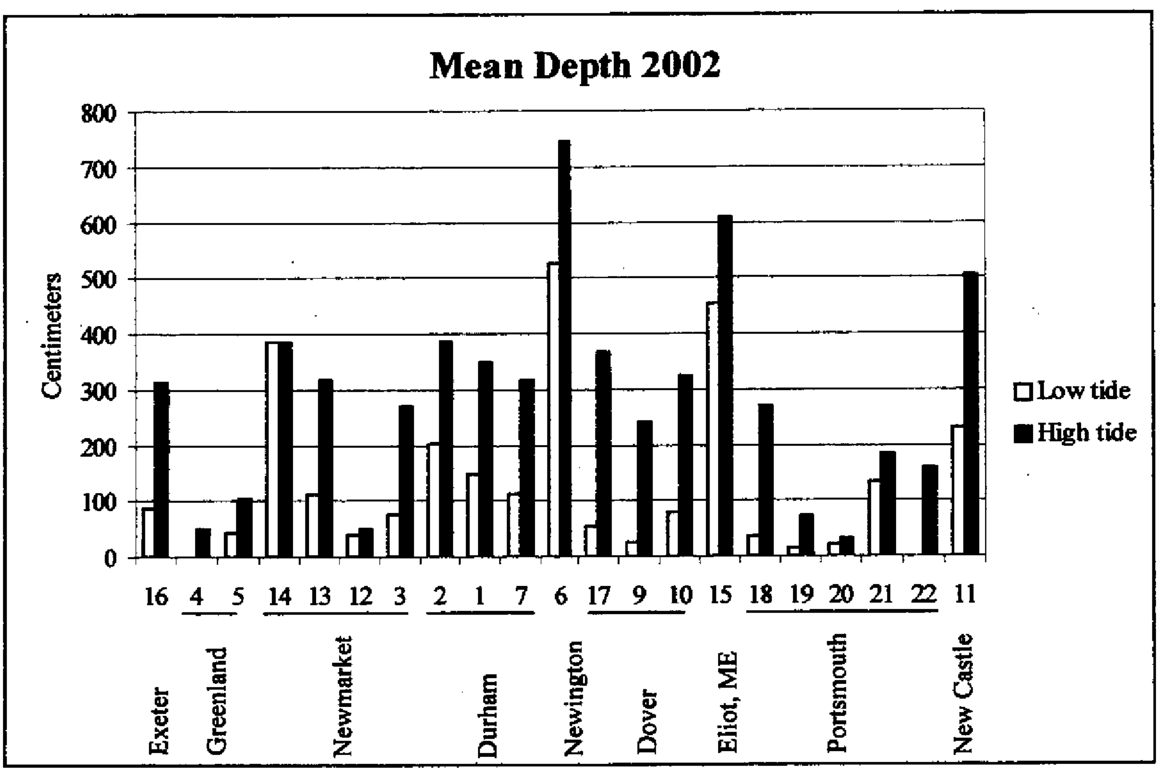

Mean Salinity 2002
ppt
35
30
25
20
15
10
5
0
16 4 5 14 13 12 3 2 1 7 6 17 9 10 15 18 19 20 21 22 11
Exeter
Greenland
Newmarket
Durham
Newington
Dover
Eliot, ME
Portsmouth
New Castle
Low tide
High tide


Mean pH 2002
pH units
8
6
16 4 5 14 13 12 3 2 1 7 6 17 9 10 15 18 19 20 21 22 11
Exeter
Greenland
Newmarket
Durham
Newington
Dover
Eliot, ME
Portsmouth
New Castle
Low tide
High tide


Mean Dissolved Oxygen 2002
ppt
14
12
10
8
6
4
2
0
16 4 5 14 13 12 3 2 1 7 6 17 9 10 15 18 19 20 21 22 11
Exeter
Greenland
Newmarket
Durham
Newington
Dover
Eliot, ME
Portsmouth
New Castle
Low tide
High tide


Mean Oxygen Saturation 2002
Percent
160
140
120
100
80
60
40
20
0
16 4 5 14 13 12 3 2 1 7 6 17 9 10 15 18 19 20 21 22 11
Exeter
Greenland
Newmarket
Durham
Newington
Dover
Eliot, ME
Portsmouth
New Castle
Low tide
High tide


Mean Transparency 2002
Centimeters
400
350
300
250
200
150
100
50
0
16 4 5 14 13 12 3 2 1 7 6 17 9 10 15 18 19 20 21 22 11
Exeter
Greenland
Newmarket
Durham
Newington
Dover
Eliot, ME
Portsmouth
New Castle
Low tide
High tide


Mean Depth 2002
Centimeters
800
700
600
500
400
300
200
100
0
16 4 5 14 13 12 3 2 1 7 6 17 9 10 15 18 19 20 21 22 11
Exeter
Greenland
Newmarket
Durham
Newington
Dover
Eliot, ME
Portsmouth
New Castle
Low tide
High tide

Fecal Coliform Report

2002 Table of Fecal Coliform Geometric Means vs. Medians

Site Name	Site #	Low Tide Geometric Mean**	Low Tide Median**	High Tide Geometric Mean**	High Tide Median**
Peninsula	1	24	25	2	2
JEL	2	3	2	2	2
Lamprey River	3	25	26	25	40
Depot Road	4	*	*	7	6
PCC	5	69	51	2	3
Fox Point	6	2	1	2	0
Cedar Point	7	3	3	2	1
Neal	9	85	83	16	18
Clark	10	18	20	2	1
CML	11	2	1	1	1
STP	12	140	105	84	6
Marina Falls Land.	13	29	50	51	20
Fowler	14	18	22	22	18
Patten's Yacht Yard	15	2	1	2	1
Exeter Docks	16	193	190	106	370
Dover Foot Bridge	17	91	105	144	165
Maplewood Ave	18	13	13	2	0
Bartlett Ave	19	67	220	49	36
Junkins Ave	20	10	14	14	110
Pleasant St	21	6	16	0	10
Little Harbor	22	*	*	2	0

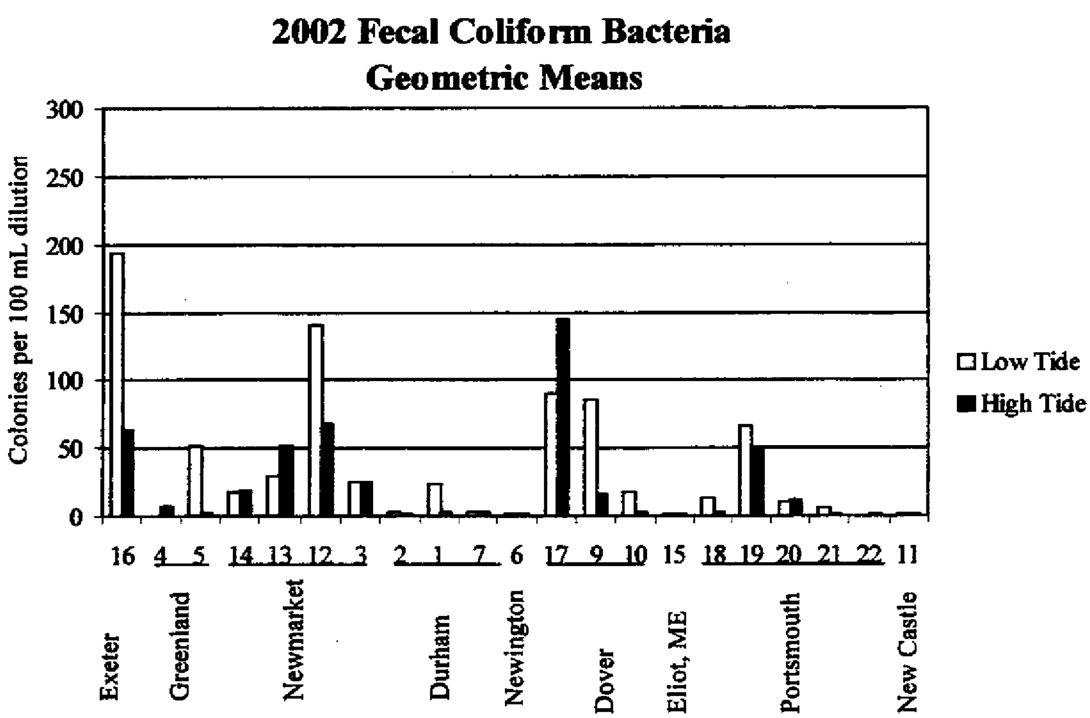
* There is no sampling at sites 4 and 22 at low tide.
** Measurements made in colonies per 100 mL of sample.

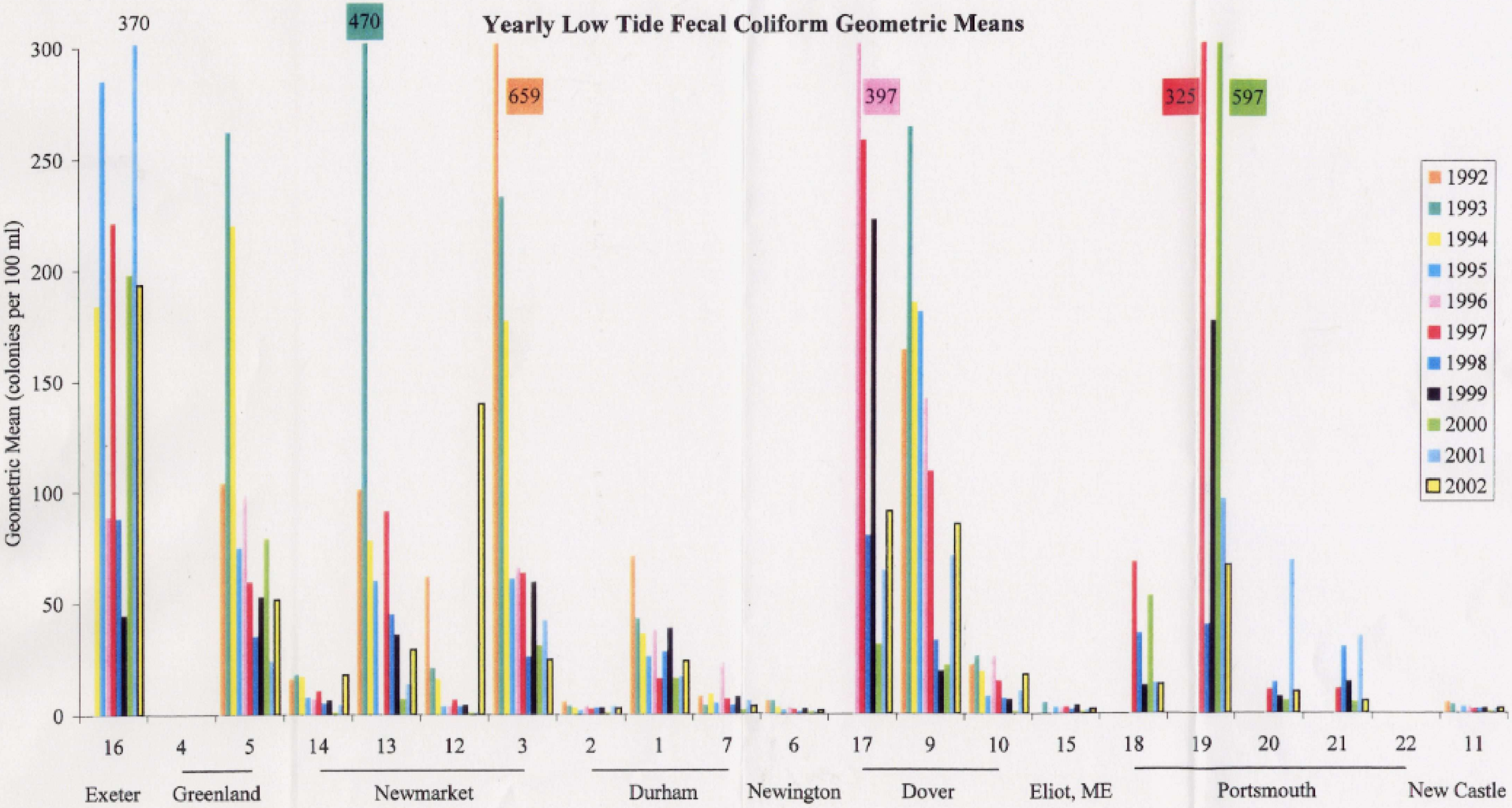
Some of the most commonly asked questions that we hear are "Are the bacteria levels in the estuary too high?" "Is it safe to swim in the Great Bay?" "Are the shellfish safe to eat?" It is important for the reader to understand the intended purpose of the GBCW monitoring when asking these questions. The volunteers' data are useful for giving generalized information about water quality in the Great Bay Estuary, identifying "hot spots" where state/local regulators should investigate further and tracking changes in the water quality of the estuary over time. GBCW monitoring and data might also prove useful in locating the sources or activities that are creating the pollution that affects shellfish beds. Many of the above questions are specific "regulatory" issues that are best answered by the regulators themselves. For example, state regulations use enterococci as a bacterial indicator, not fecal coliform, for determining if tidal waters are safe for swimming. Direct comparisons between the two cannot be made. Determining if waters are safe for shellfish harvesting is a complicated process that involves much more than taking water samples. Real and potential shoreline sources of pollution must be evaluated and other factors that affect the performance of the pollution sources and their effects on shellfish beds (hydrographic, meteorological, and other influences) must be determined. Furthermore, a laboratory certified by the U. S. Food and Drug Administration must test water samples, using specific analytical methods that are different from those used by the GBCW.

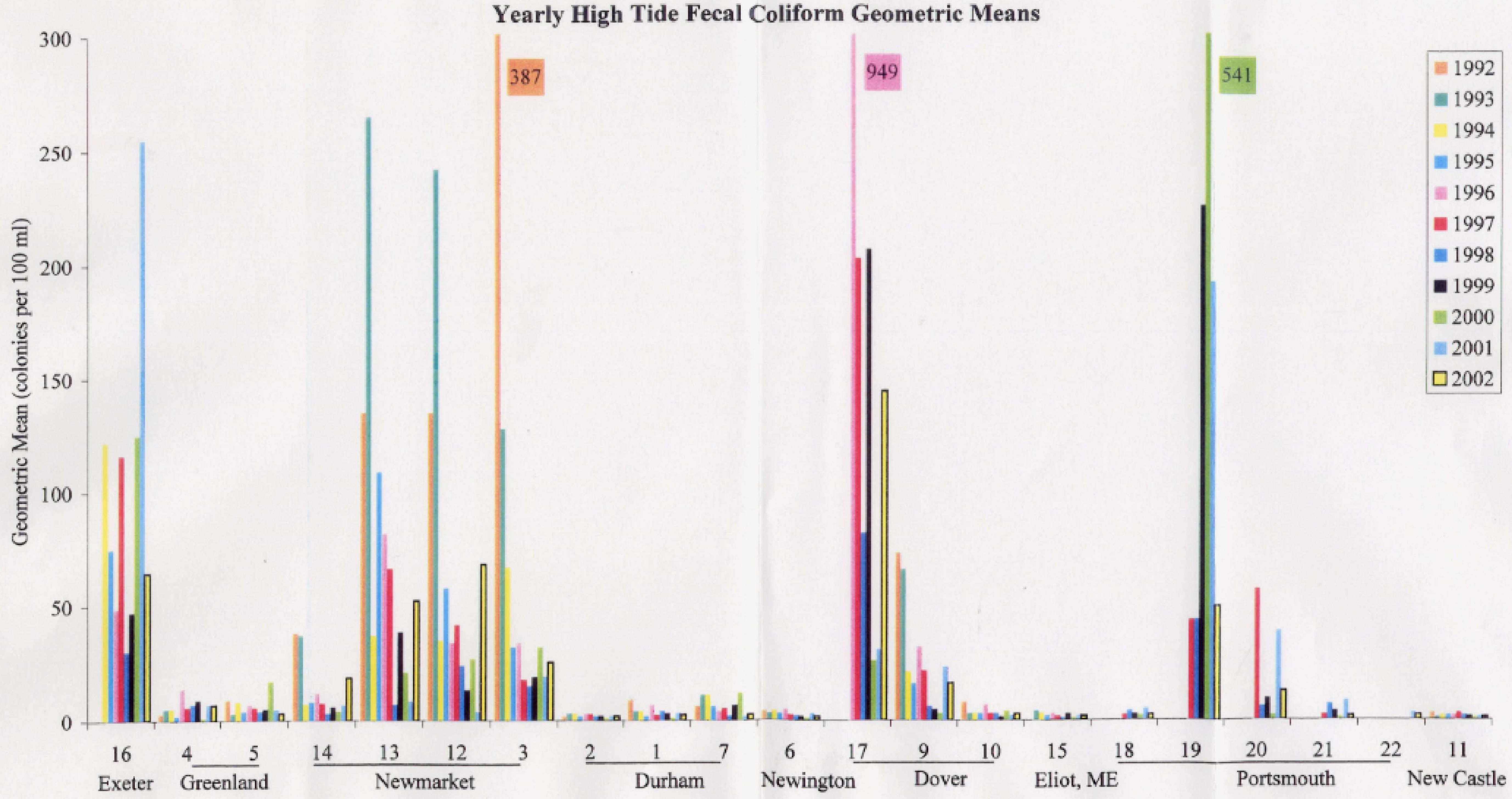
Thus, it would be inappropriate for one to use the bacterial data generated by GBCW to make a definitive conclusion on the safety of shellfish beds.

However, GBCW data can be viewed in the context of water quality standards for shellfishing to get a general sense of how clean or polluted the waters of the estuary are. Shellfish water regulations state that for an area to be classified as "Approved" (harvesting can occur at any time, regardless of weather conditions or other factors), the geometric mean of several samples should not exceed 14 fecal coliform colonies per 100 ml, and not more than 10 % of the samples should have counts that exceed 43 fecal coliform colonies per 100 ml. Sites 2, 4, 6, 7, 11, 15, 18, 20, 21, and 22 pass this test based on the GBCW data collected during the 2002 season. Shellfish water quality criteria are very strict, and although many of the sites would not meet the "Approved" classification, waters determined to be unsafe for shellfish harvesting are not necessarily severely polluted and may be considered safe for other activities, such as swimming.

Fecal Coliform data collected in the 2002 season reflected interesting trends which have been previously observed and reported in the ten-year report. Rainfall can affect fecal coliform counts, often elevating the numbers after rain events. Weather stations in Durham and Greenland reported below average rainfall amounts during the sampling months reflecting the onset of a severe drought.




Yearly Low Tide Fecal Coliform Geometric Means
Geometric Mean (colonies per 100 ml)
0
50
100
150
200
250
300
370
470
659
397
325
597
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
16
4
5
14
13
12
3
2
1
7
6
17
9
10
15
18
19
20
21
22
11
Exeter
Greenland
Newmarket
Durham
Newington
Dover
Eliot, ME
Portsmouth
New Castle



Yearly High Tide Fecal Coliform Geometric Means
Geometric Mean (colonies per 100 ml)
300
250
200
150
100
50
0
387
949
541
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
16
Exeter
4
5
Greenland
14
13
12
3
Newmarket
2
1
7
Durham
6
Newington
17
9
10
Dover
15
Eliot, ME
18
19
20
21
22
Portsmouth
11
New Castle

Phytoplankton Program Report

GBCW phytoplankton volunteers traveled to the Darling Marine Center in Walpole, Maine March 8th-9th 2002 to participate in a two day phytoplankton identification workshop. Working alongside volunteers from the Maine monitoring program, they collected and examined samples of local phytoplankton species, learning new methods of identification and brushing up on previous knowledge. Emphasis was placed on comparing cultured samples of known toxic cells to samples of cells that look similar. We have found that the presence of these similar cells can create confusion and errors in reporting. Joint training sessions are one of the highlights of our spring warm up. Meeting the many other volunteers who make up the Gulf of Maine network of phytoplankton monitors is energizing and stimulates an exchange of ideas and methods.

GBCW phytoplankton observers were out monitoring at their home sites the first week in April. We welcomed new volunteers Emery Hutchins, Lorelei Chernyshov and Curtis Hoffman who joined returning volunteers Barbara and Jack Balaguer, Marie and Roy Jones, Linda Coe, Lyn Beattie, Jack Chambers, Andy Stewart, Wally Fries, Sam, Sophie and Michelle Wensman, Barbara Baird, Don Chamberland, Steve Cooper, Cliff Horrigan and Dave Bellantone.

As in previous years, phytoplankton-monitoring sites were maintained at five coastal locations including the Seabrook Fisherman's Cooperative, Hampton Beach State pier, Parson's Creek in Rye, UNH/Coastal Marine Lab in New Castle and Hilton Park in Dover. Additionally, we continued our agreement with the NH Department of Environmental Services / Shellfish Program (NHDES) to maintain a paralytic shellfish (PSP) monitoring station at Star Island, Isles of Shoals. This station is accessed through an arrangement with the Isles of Shoals Steamship Company, which allows GBCW volunteer phytoplankton monitors to travel weekly to Star Island on their vessels. We would also like to acknowledge the generosity of the Star Island Corporation who allows us access to its floating docks for our phytoplankton collection. As in previous years, volunteers collected mussels from Hampton Harbor, bagged them in mesh bags then transported them to the shoals where they were left to hang from the Star Island docks to filter feed for two weeks. The bagged mussels were then collected and transported to the state laboratory in Concord by GBCW volunteers where they were tested for possible toxins.

Since we have so many interactions with the public when monitoring phytoplankton, we asked for and received funding from the New Hampshire Coastal Program to produce an informational brochure. The new addition to our outreach materials was introduced in July 02 with the printing and distribution of the "*Monitoring the Gardens of the Sea*" brochure. Designed and written with the assistance of GBCW volunteer Steve Cooper, this brochure offers a unique way of introducing the public to the world of phytoplankton. It also doubles as a GBCW recruitment piece and assists both NHDES/Shellfish and the NH Coastal Program, our supporting agencies, in educating the public about harmful algae blooms. A copy of this brochure is obtainable upon request.

Fortunately, phytoplankton samples collected from the shoals and NH coastal sites during the 2002 season at no time presented evidence of toxic cells. Overall, non-toxic cell counts were slightly lower than in previous years, a condition noted both in NH and Maine samples. The phytoplankton results are consistent with NHDES shellfish tissue results, in that no "red tide" closures of NH shellfish beds were implemented in 2002.

During the 2002 phytoplankton monitoring season GBCW phytoplankton monitors volunteered 392 hours of labor, collected 109 samples and drove 4,068 miles in support of this one project. Phytoplankton volunteer monitors are awesome! Thank you.

We are looking forward to continuing our monitoring and data collection during the 2003 season.

E. Quality Assurance/Quality Control Analyses

The Accuracy and Precision of the Data Collected by Volunteers

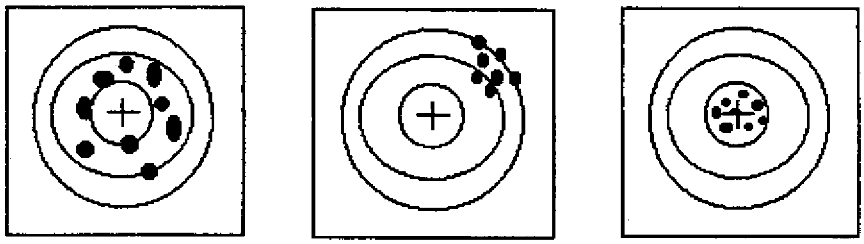
Great Bay Coast Watch employs several quality assurance and quality control (QAQC) activities to detect inconsistencies of measurements in the field, and ensure the quality of the monitors' measurements. The three overall components of the QAQC plan include volunteer training, formal QAQC sessions, and split sampling in the field. The QAQC plan's purpose is to evaluate the quality of the data collected by the program so as to increase confidence in the data being furnished by the volunteer monitors.

The Great Bay Coast Watch's work on QAQC focuses on three areas. First, all new volunteers are trained and introduced to sampling techniques. Each year returning volunteers are retrained. Second, we have been testing volunteer monitors at QAQC sessions since 1992. Thirdly, a QAQC team validates the volunteer data with replicate field sampling. Replicate field sampling, previously referred to as split sampling, provides a check based on a different way of handling the samples. Sites were replicate sampled this season, ensuring that a majority of volunteers were visited 'on-site' by members of our QAQC team. Volunteer training begins before the sampling season, and includes all volunteers, new and returning. A series of "dry run" meetings are held in February or March and are designed to demonstrate sampling techniques, and provide hands on experience.

Formal QAQC sessions are held twice a year. These sessions are designed to detect these problems can be identified. Prior to each QAQC session, water thermometers, hydrometers, and pH meters are calibrated by members of our QAQC team who are assisted by the UNH Chemistry Lab Supervisor Amy Lindsay.

Volunteers test a common water sample for all of the parameters used in our monitoring program. The results are reviewed and analyzed by GBCW staff. Two factors are of primary interest when evaluating the quality of data collected by volunteer monitors. The first is accuracy, or how close on average the volunteers' measurements are to the true value of the parameters being measured. A difference between the average monitor estimate and the actual value is computed and reported as the level of accuracy. The second factor is precision, or how close the volunteers' measurements are to one another's. Relative Standard Deviation (RSD) is used to show variance in replicate measurements of the same sample. Relative Percent Difference (RPD) is used to show variance in samples with only two replicates. The variation in the volunteers' measurements for a single sample is reported as the level of precision. The lower the result is the more precise your measurements are.

Figure of Accuracy and Precision



Accurate   Precise   Accurate and Precise

Both accuracy and precision of the Great Bay Coast Watch volunteers have been evaluated. Beginning in 1992 we have had two QAQC sessions (time set aside to test all of the volunteers for accuracy and precision) a year, with the exception of 1993 and 1994 when we had three and one sessions respectively. In the first 1995 session, we found that there was a need to modify our procedures to control for external influences affecting the water samples. This prompted the following procedural changes, which have been carried out since 1996. Six years ago we made important adjustments to our QAQC procedures in order to control for external factors that may influence the water samples being tested. First, we designed a covered container to hold the water for dissolved oxygen sampling to try to control the fluctuation of dissolved oxygen levels. We also used our incubator for water temperature testing in order to keep a constant water temperature throughout the six-hour session. A summary of the results of the 2002 sessions can be found in the following table.

Table of GBCW Accuracy and Precision for QAQC Sessions 2002

	Accuracy		Precision		
	Goal	Actual	Goal	Actual	RSD
Salinity Test 1 Low	0.82 ppt	1.19	1.0 ppt	0.6	61.827
Salinity Test 2 Medium	0.82 ppt	0.85	1.0 ppt	1.5	3.3291
Salinity Test 3 High	0.82 ppt	0.92	1.0 ppt	0.7	5.5774
pH	0.1 units	0.1	0.1 units	0.08	1.7905
Dissolved Oxygen	0.3 mg/L	1.0	0.9 mg/L	0.4	19.787
Water Temperature	0.5°C	0.4	1°C	0.4	11.429

RSD = Relative Standard Deviation, >20% is considered out of acceptable range.

This year the QAQC team had some complications with equipment and recording the QAQC session data. The meters we used for QAQC session comparisons were calibrated before each use. The low salinity accuracy is always difficult for us to obtain due to chart versus meter results. The chart provides options at varying intervals, while the meter provides results 0.1 ppt apart. The Dissolved Oxygen Meter continues to be difficult to calibrate and often provides very different results from the titration results. Also, the QAQC team review of how to use the meters and how to properly obtain results this year was not sufficient. The consequence of this is that the precision results are above most of our goals, while most of the accuracy results are within them. The samplers ability did not seem to change since the QAQC Replicate results are all well within our goals. See the following table.

Since the results from the 2002 QAQC Sessions showed that a great deal of improvement is needed in the testing process, several changes have been planned for the 2003 sessions. Discussions with the QAQC team pointed out several problems. The first problem is a result of our own success. As the number of volunteers grows, the amount of training and testing needs grows, too. We have the same number of QAQC team members and the same amount of time with a much larger number of people requiring training and testing. As a result, the QAQC team did not have sufficient time to refresh their own training in proper procedures and check for equipment failures. They also did not have people to relieve them or to trade places with during the day. The samplers did not have anyone to ask questions to before testing on issues they needed cleared up or equipment that was being questioned.

The solution to this problem is simple. More QAQC team members will solve the problem of not having a break and the ability to fix, replace or re-calibrate equipment. A full, and separate, training session for the QAQC team will allow them to train new members and refresh the returning members on the techniques required. This will also allow them time to check over the equipment to be used and have backup equipment available in case of failures during testing. Scheduling more numerous and varied testing times will also help the QAQC team cope with the larger number of people to be tested.

The second problem was the operation and accuracy of the meters being used to check the samplers' results. The Technical Advisory Committee (TAC) will complete a full review of the meters being used versus the regular equipment for this type of testing before the next QAQC testing session. Some of the meters seem to be causing more problems than they are solving. A Dissolved Oxygen Meter is necessary for the QAQC team to use due to the time required for a titration. However, the meter we are using does not agree with the titration results with much precision. The pH meter may be an improved model from what we use, but team members believe that it is comparing how different instruments work instead of comparing samplers skills. The salinity meter can produce much more accurate numbers than the chart that samplers use, which complicates our precision results significantly. All of these questions will be brought to the TAC to help us resolve and improve our results in future years.

The third component of the QAQC plan is replicate sampling in the field. These samples are designed to be "spot checks" of the volunteers in the field. The coordinator, or one of the trained staff, visits sites on sampling days, and performs all of the tests that the monitors do, from the same water sample. Both Average Standard Deviation (ASD) and RPD (Relative Percent Difference) results for the Replicate samples are provided in the table below. This tells us how close our replicate results were to each other when comparing two of them. RPD results improved this year because QAQC monitors used the same equipment as the monitors. The DO bottle used was different due to volume requirements. This eliminated the error created from instruments reading differently. These results show that field sampling is being done properly and that, despite the QAQC Session results, the skills of our samplers did not decrease.

Table of 2002 Replicate Sample Precision Results

	Precision		
	Goal	**ASD**	**RPD**
Salinity	1.0 ppt	0.3	5.01
pH	0.1 units	0.1	2.11
Dissolved Oxygen	0.9 mg/L	0.1	2.25
Water Temperature	1°C	0.2	2.97

RPD = Relative Percent Difference, >20% is considered out of acceptable range.
ASD = Average Standard Deviation

The goal for precision was met in all cases. This is an improvement from the last year's results for salinity, which demonstrates that the changes made by the QAQC team were successful. The first change of using the same equipment was discussed previously. The second change was to have the QAQC team sample at the same time as the monitoring team. If there was greater than a twenty-minute time gap, the site was not QAQC sampled, as they would not be sampling similar water. Falling within the goal set by the QAQC plan for each parameter indicates that the volunteers are accurately measuring water quality parameters. These results are encouraging, and add to the overall credibility of the long-term data collected by the Watch

We are constantly striving to produce objective results and generating ways to make the QAQC sessions more effective in reaching the goal of measuring accuracy and precision. We had planned to review and update our present QAQC Plan this season, however a large influx of new projects kept us from that goal. A new SOP for Fecal Coliform Testing has been developed. Currently there is no QAQC plan developed for Phytoplankton monitoring. GBCW collaborates with the Maine Phytoplankton Monitoring Program in spring and fall training sessions for our program. The water quality portion of this program is QAQC tested in the same way our regular program is tested. There are several complications with a QAQC test for phytoplankton. Organisms that have been preserved do not keep their shape and color well, so that using a fixed slide for QA/QC purposes is not useful. Replicate samples would not show accuracy or precision. The program that we do follow is to have a second monitor re-count each slide as it is taken to check accurate counts. See the Great Bay Coast Watch Phytoplankton Monitoring Program Reports for more information on that project.

A QAQC test session for volunteers was continued this year to include the volunteers who process samples for fecal coliform bacteria. There are no statistical results to provide for this session since it is a questionnaire instead of sample processing. QAQC is measured in multiple ways for the accuracy and precision of total fecal colony count results. Blank samples are filtered to ensure that cross contamination is not occurring between samples from the filtering apparatus. They are processed at the rate of two at the beginning, middle and end of each processing run, by each team. This totals up to 12 blanks per processing session. Our data shows that we have a clean record in this regard. We had zero positive results for our blank samples this season.

Duplicates on samples were processed at a rate of 10% of all aliquots, to show how repeatable our results are. A difference of greater than 20% would show that the data is questionable and could not be used. Last year showed that we could use some improvement in this area, and this year showed that we have accomplished that goal. Replicate samples are taken by QAQC officers in the field to show the samplers' results can be replicated. When duplicate and replicate sample results show a difference of greater than 20% the data is labeled as questionable, marked in red on the data pages. For replicate samples, we were well within our goal. The RPD is also within our goal. The problems encountered in last year's results have all been corrected. Replicate samples were obtained at similar times, sample mixing was improved, with a significant reduction in the occurrence of bags leaking in the incubators.

The June 2001 fecal coliform data was found during the course of the year and has now been added to that year's data set. QAQC results were not recalculated, but can be obtained by special request.

Table of Fecal Coliform Precision Results

	Precision		
	Goal	**ASD**	**RPD**
Fecal Coliform Counts for Duplicate Samples	20CFU/100ML	2.21	6.83
Fecal Coliform Counts for Split Samples	20CFU/100ML	2.60	11.87

RPD = Relative Percent Difference, >20% is considered out of acceptable range
ASD = Average Standard Deviation

F. Activities, Accomplishments, Awards and Impacts

2002 Projects

Water Quality Monitoring

Sampling at 21 sites at high and low tide one day per month; 2-3 volunteers per site.

Fecal Coliform Processing

Samples collected from 21 sites at high and low tide one day per month; 4 volunteers spend 4 hours monthly processing the samples the day of collection; 2 volunteers work 1 hour the day after collection to count colonies.

Phytoplankton Monitoring

Samples gathered weekly at high and low tide from 6 sites, 5 on the coast and 1 at the Isle of Shoals.

Instream Riparian Habitat Assessment

Habitat assessment utilizing GPS, digital photography, and record sheets. Volunteers walk shoreline to detect erosion.

Dover Stormwater Investigation

Volunteers collect water samples and water flow data from 100 pipes during dry weather and process water for fecal coliform bacteria.

DES Shellfish Program

GBCW provides and coordinates volunteer involvement in multiple DES projects. Volunteers collect mussels and transplant to the Isle of Shoals. The mussels are left to filter for at least 2 weeks and then transported to a DES lab in Concord to be processed for paralytic shellfish poisoning (PSP) testing. Volunteers also assist with ambient sampling in Great Bay, Little Harbor, and Hampton Harbor, participate in dry and wet weather culvert (RRR) sampling, transport samples to Concord, and assist with Quality Assurance of data entry for DES Shellfish Management Program.

Impacts

- Greater individual knowledge of area residents in water quality monitoring concepts, pond care, land protection for water quality benefits, water conservation, riparian buffer guidelines, home and farm assessment, estuarine characteristics, estuarine research and in identifying wetlands.

- An increase in the number and skills of trained water quality monitoring volunteers in both fresh and salt water systems contributing to an 8-10 % increase in sampling statewide.

- Continued expansion of "neighbor to neighbor" effect of monitoring programs in which trained volunteers educate other members of their associations, commissions, and towns.

- Volunteer collected data is used by state and federal agencies to help determine shellfish bed openings and closures, coastal restoration project budgeting, and on 305B report to Congress.

- Additional state and federal funding for volunteer monitoring programs to assist with local habitat restoration, stormwater management, and data collection.

Major accomplishments of the Great Bay Coast Watch in the past 13 years:

- In 2002, the Gulf of Maine Council Visionary Award was presented to GBCW volunteer, Barbara Baird, for her achievements. The mission of the Gulf of Maine Council is to maintain and enhance the environmental quality in the Gulf of Maine and to allow for sustainable resource use by existing and future generations.

- The NHCP awarded GBCW a grant to pursue shoreline survey work and potential pollution identification in the towns of Portsmouth, Newington, and New Castle in 2002. A team of volunteers presented results along with GBCW long-term monitoring data to the conservation commissions in each town.

- The NHCP awarded GBCW an additional grant to gather phytoplankton data for a third year. Samples are taken from 5 coastal sites and 1 site at the Isle of Shoals.

- The Davis Foundation provided a grant to GBCW to upgrade our web site. Kathy Schmitt, Steve Adams, Bill Pagum, Kevin Ronkko worked together to have the *Ten Year Report on the Volunteer Water Quality Monitoring of the Great Bay Estuarine System* on-line by watershed and town/city in 2001. In 2002, the web site capabilities for GBCW were expanded once again by Matt Magnusson, UNH staff and student. Matt streamlined the existing pages and he has been designing on-line forms to enable GBCW volunteers to enter data over the web.

- In 2000, a new full color brochure for the GBCW Water Quality Monitoring was produced. It was made possible by a grant from the Greater Piscataqua Community Foundation (GPCF). In 2002, a new phytoplankton brochure was created with the funds from GPCF.

- In 2001, the GBCW published the *Ten Year Report on the Volunteer Water Quality Monitoring of the Great Bay Estuarine System*, an extensive report analyzing the ten years of data collected by the GBCW.

- National Marine Educator of the Year Award from the National Marine Educator's Association went to GBCW Program Coordinator Ann S. Reid in 2001.

- The NH Coastal Program awarded GBCW a grant to pursue shoreline survey work and potential pollution identification in the towns of Newmarket and Dover in 2000. A team of volunteers presented results along with GBCW long-term monitoring data to the conservation commissions in each of these towns.

- GBCW was successful in obtaining funding from the NH Coastal Program and New England Grassroots Environmental Fund to launch a volunteer phytoplankton monitoring program and NHCP continued to fund the phytoplankton program for its third season.

- A core of volunteers has been educated about the importance of protecting the estuary and its resources. GBCW has provided a direct avenue for their active participation. Volunteers learned a variety of estuarine sampling techniques, including shoreline survey methods, potential pollution source identification (PPSID), and instream habitat assessment. Several GBCW members have become active participants on NH Estuaries Project (NHEP) committees, and local conservation commissions.

- With the guidance of the Development Committee, a fundraising award dinner in the fall of 2001 raised an additional $2,000.

- GBCW completed a contract with the NHEP to recruit and train volunteers to assist in the shoreline survey of the Atlantic Coast. Results of this project will be used by the Department of Environmental Services to classify shellfish-growing waters along the coast.

- GBCW received two grants from the New Hampshire Estuaries Project to train volunteers and coordinate shoreline surveys, including habitat structure and quality, organism distribution, and potential pollution source identification. This assisted in the reopening of clam-flats in the Hampton/Seabrook Estuary.

- Governor Jeanne Shaheen's Council on Volunteerism recognized GBCW as the 1998 Outstanding Adult Volunteer Group in Strafford County.

- The Watch provides a model for other sampling groups and has seen an increase in requests for its sampling manual and, the EPA-approved, Quality Assurance Quality Control Plan.

- GBCW worked with nine schools and gave educational programs that created a more direct link to their communities. The New Franklin, Little Harbor and Middle schools in Portsmouth have worked with GBCW as part of a service learning grant. GBCW assisted the Epping Junior/Senior High school with launching a river-monitoring program.

- Linda Scherf, a teacher at St. Mary's Academy, monitors with the 7th and 8th grades in down town Dover. Linda received the Gulf of Maine Visionary Award from the Gulf of Maine Council on the Environment in 2000.

- Participation in local, state, regional, and national events including conferences, workshops, and committees helps to focus public attention and interest on the vital roles of estuaries by exemplifying the Great Bay in particular.

- Participation in the GBCW has provided science career-related information and experience for students and has been a direct influence on the choice of careers for several GBCW student interns and student volunteers.

- An additional site was added to the NHDES PSP monitoring and the Phytoplankton Monitoring Program at the Isles of Shoals. Partnership with the M/V Thomas Leighton of the Isles of Shoals Steamship Company made the transportation of mussels and monitors to and from the Isles regular and efficient.

Presentations, Exhibits, and Displays in 2002

To increase public awareness and raise support from surrounding communities and related organizations, the GBCW staff and volunteers presented and participated in:

- 15th Annual Coastal Clean-up
- 8th Annual National Secchi Dip-In
- 4th Annual BBQ and Joint Meeting for sustainability of the GBCW, Great Bay Stewards and Friends of the Great Bay National Wildlife Refuge
- UNH President Ann Weaver Hart visit to Kingman Farm
- Board of Directors for the Great Bay Stewards, Education Committee Chair
- Dover's Apple Harvest Festival
- Cochecho River Watershed Coalition Advisory Committee
- Conservation Commissions in Portsmouth, Newington, New Castle, and Dover
- NHEP Invasive Species Meeting in Boston
- NHEP/NH Coastal Program Coastal Watershed Forum
- NHEP Shellfish Committee and Water Quality Committee meetings
- CREES Water Quality Monitoring New England Meetings (June and December)
- Coastal Network for the Gulf of Maine (CNET)

- Gulf of Maine Marine Education Association (GOMMEA) Conference
- Conservation Commissions in Dover, Portsmouth, Newington, and New Castle.
- Advisory Committee to the Advocates of the North Mill Pond
- Exeter River Alewife Festival
- Annual ELFUN Society (General Electric Service Group) Meeting at the New England Center
- Marine Docent Opportunity Fair
- Dover Open Lands Committee
- City Year and United Way Volunteer Fair for Martin Luther King Day at Portsmouth Middle School
- Career to Work Fair for Newmarket Middle School and Newmarket High School
- United Way Day of Caring with Timberland and Bottomline Technologies

Education and Training

- Four University of New Hampshire students were part-time interns at the GBCW this year. Students were involved in a number of different tasks, including lab testing, QAQC, field sampling, fecal coliform lab procedures, data input, budget and bookkeeping, statistical analysis, office support, publications, presentations, and a multitude of other tasks during meetings and presentations.
- Home-schooled families have become a consistent part of GBCW. Two families participated in training, QAQC sessions, and as regular GBCW volunteers and monitors.
- Approximately 28 new monitoring volunteers and approximately 80 high school students were trained in water quality monitoring and worked as GBCW volunteers.
- Sixty-three volunteers passed the QAQC for water quality monitoring.
- Four volunteers passed the QAQC for fecal coliform processing.
- Nearly twenty volunteers were trained in sampling techniques and potential pollution source identification and formed the teams to work on granted projects with the NHDES Shellfish Program for NHEP.

- A dozen volunteers were trained using GPS and a digital camera and walked the shoreline of Great Bay as part of the team doing instream habitat assessment.

- The Wells Reserve/GOMMEA hosted a special workshop, entitled "Teaching About Water Quality."

- Eight volunteers were trained at the Darling Center in Maine to identify phytoplankton in samples.

- During monthly meetings for the GBCW several speakers enthusiastically informed members about the following topics:

  - Rob Roseen, Research Engineer II with the UNH Department of Civil Engineering, presented "Groundwater Discharge and Nutrient Loading to the Great Bay Estuary" at the 12th Annual Spring Meeting of GBCW.

  - Joanne McLaughlin, NH Coastal Program geologist, explained the "Instream and Riparian Habitat" project to volunteers attending the April Monthly Meeting.

  - Julia Peterson, UNH Cooperative Extension Specialist, discussed the water pollution prevention in the GBCW watershed at the meeting in May.

  - Doug Bogen, from NH Clean Water Action, spoke about mercury contamination in NH waters at the June meeting.

  - Dr. Rich Langan, Co-director of CICEET, and Jack Mettee of Appledore Engineering held a panel discussion regarding New Facilities and Opportunities for Marine Research at the 3rd Annual Joint GBCW, Friends of Great Bay Wildlife Refuge, and the Great Bay Stewards Barbecue in July.

  - Chris Nash, DES Shellfish Director, spoke about "Sanitary Shoreline Surveys" and reported on the work GBCW has done at the monthly meeting in September.

  - Verna DeLauer, NH Coastal Program, gave us an overview of the history and the role of the Gulf of Maine Council and UNH staff and student Matt Magnusson showed a preview of his work on the GBCW web site at the 13th Annual Chili and "Chowdah" Fest in November.

Future Plans

- Basic monthly water quality monitoring of 21 sites at high and low tides around the Great Bay Estuary
- Continuation and expansion of the Phytoplankton Monitoring Program by submitting a grant to the NH Office of State Planning's Coastal Program.
- Additional work with the NHDES Shellfish Program, assisting in sampling, shoreline surveys, potential pollution source identification, and Isles of Shoals mussel collection.
- Identification and inventory of instream and riparian habitats in need of restoration, with the NH Coastal Program.
- Work with the City of Dover and the NHDES to monitor for potential pollution sources related to stormwater in Dover, assisting the city with its stormwater management plan and detection of illicit discharges.
- Saltmarsh Monitoring Project with Ducks Unlimited.
- Monitoring ground water wells around the Great Bay Estuary with Robert Roseen.
- Assist in testing newly developed sensors for PSP with Jerome Claverie of UNH.
- GBCW coordinator will evaluate data use by various agencies.
- Update QAQC plan and build and train the QAQC Team.
- Update Volunteer Manual
- Provide a two-page water quality fact sheet to individual towns within the GBCW sampling area.
- Continuation of web site expansion with plan to provide on-line access to GBCW water quality data.
- Increase public awareness of GBCW at the Restore America's Estuaries Conference.
- Increase government awareness of GBCW by providing a copy of the Ten Year Report to NH Legislature.

G. Participants and Supporters

The Volunteers and Monitors of the Great Bay Coast Watch

In 2002, the GBCW consisted of more than 100 active volunteers from 20 communities around the Great Bay Estuary. The volunteers include retired adults, teachers and high school students, home-schooled families, and a variety of working professionals. A number of the GBCW members are UNH Marine Docents, volunteers who have a five-month educational training program about the marine environment. April through November, volunteers sample once a month at 21 different sites at low tide and high tide. Each site team was composed of two to four members. The GBCW uses a volunteer team approach to perform and complete Quality Assurance/Quality Control (QAQC) checks, water sample processing for fecal coliform, shoreline surveys, and habitat studies. In addition, 40 people provided support for the GBCW in many ways, ranging from the use of docks, to office help, technical advice and financial contributions. Additionally, over 35 volunteers participated in the phytoplankton monitoring program, sampling weekly at six sites on the seacoast from March to October (see Phytoplankton Monitoring section)

Participating Schools

Eight area schools were actively involved with GBCW in the 2002 sampling season. The Oyster River High School in Durham has a program coordinated by Laura Parsons and Jennifer Wainwright. They and their students helped sample at site 1 on the Oyster River. The Newmarket High School collects samples at site 12, the Newmarket Sewage Treatment Plant. Linda Albright oversees this program. The Marshwood High School in Eliot, ME has a program coordinated by Jeff Gardner and Vinnie Johnson, helped to sample at site 15, Patten Yacht Yard. Linda Scherf coordinated St. Mary Academy's seventh and eighth graders in Dover and they sampled at site 17 on the Dover footbridge. The New Franklin School in Portsmouth samples at site 19, overseen by Ann Smith. Site 20 is sampled by eight graders at Portsmouth Middle School and is coordinated by Ruth Larkin and Ken Hawkins. Students and faculty at Little Harbor School in Portsmouth sample at site 22 and this is lead by teacher Trish Lee.

Home schooled families are also involved with the program. This year the Blake family sampled at site 2 at the Jackson Estuarine Lab (JEL) and were integral members of the team processing samples for fecal coliform bacteria. The Wensman family sample site 6 at Fox Point and were filmed for a spot on NHPTV's ZOOM into Action. They also assisted with processing samples for possible fecal coliform bacteria and participated as phytoplankton monitors.

Active Monitors in 2002 by Town

Dover

Site 9	Lydia Scott, David Scott, Eileen Williams, and Nate Hazen
Site 10	William Kram and Cheryl Niles, George Niles, and Eileen Williams
Site 17	Laura, Linda, and Paula Scherf, St. Mary Academy students, Mary Norris, Janet Lucco, and Barbara Trow

Durham

Site 1	Laura Parsons, Jenn Wainright and ORHS students
Site 2	Lorelei Chernyshov, Malorie Blake and Donna Desautel-Pease
Site 7	Sylvia Jones, Jennifer Lee, Steve Loos, and Robert Rowe

Eliot, ME

Site 15	Jeff Gardner, Vinnie Johnson, Barbara Reid, and Marshwood High School students

Exeter

Site 16	Nathan Hazen, Ibby Lourie, Nancy Alcock, John Scott, and Victor Tine

Greenland

Site 4	Peggy Mullin, Liz Sizemore, and Patty Warren
Site 5	Barbara Baird, Don Chamberland, and Susan McCarthy

New Castle

Site 11	Alix DuSoulier, Ted Jankowski, and Ben Jankowski. NHCP sample at the Coastal Marine Lab - Joanne McLaughlin

Newington

Site 6	Nancy Cauvet, Barbara Hill, Bill Macklin, and Michele Wensman, Sam Wensman, and Sophie Wensman

Newmarket

Site 3	Don Bassett (mentor), Valerie England, Angela Hiley, and Sarah Rieley
Site 12	Linda Albright, Jennifer Feenstra and Patti Sewall, and Newmarket High School students
Site 13	Patti Sewall and Kevin Marshall
Site 14	Audrey Fortin, Owen Pope, and Russell Pope

Portsmouth

Site 18	Muffie Hendricks, Anita Morgan, and Wes Tator
Site 19	Mary Loughlin, Ann Smith, and New Franklin School students
Site 20	Ken Hawkins, Ruth Larkin, Sally Martin, Kathy Pearce, Marcus Sante, and Portsmouth Middle School students
Site 21	Clif Horrigan, Curtis Hoffman and Emery Hutchins
Site 22	Brenda Brewster, Robin Burdick, Trish Lee and Little Harbor School students.

Alternate Samplers

Donna Desautel-Pease Candace Dolan, Jennifer Fox, Jim Horrigan, Jack Jette, Jane Jette, Judy Kontor, Alex Kontor, and Bill Pagum

Phytoplankton Monitors

Candace Dolan, Coordinator

Hampton/Seabrook	Wally Fries, Jack & Barbara Balaguer, Roy & Marie Jones, Cathy Silver and students from Winnacunnet High School
Rye/Parsons Creek	Lyn Beattie, Jack Chambers, Andrew Stewart
Coastal Marine Lab Coast Guard Station Newcastle	Don Chamberland, Jim Bowman, Jim & Cliff Horrigan
Hilton Park	Barbara Baird, Sam, Sophie, and Michele Wensman

Sample Transport

Nate Hazen, Clif Horrigan, Sylvia Jones, Bill Mackin, and Bill Wetzel

Data Management

Karen Diamond, Candace Dolan, Bill Pagum, Amber Perkins, Kevin Ronkko, and David Waltz

University of New Hampshire Interns

Kevin Ronkko – College of Life Long Learning
Amber Perkins—Marine and Fresh Water Biology 2002

Technical Advisory Committee

The Technical Advisory Committee oversees the functioning of GBCW and provides technical support.

Bill Arcieri is a Water Resources Specialist who runs Great Bay Environmental Consulting in Newmarket. He has 15 years of professional experience in evaluating water quality impacts related to nonpoint pollution sources and land-use development activities.

Dr. Dave Burdick is a research associate professor for Natural Resources at the University of New Hampshire. He works out of the Jackson Estuarine Laboratory at Adam's Point, specializing in salt marshes, eelgrass, and other estuarine environments. He is president of the Advocates of North Mill Pond.

Jennifer Hunter is Director of the New Hampshire Estuaries Project (NHEP) and administers projects and activities directly related to the NHEP's Management Plan. Areas of focus include water quality, shellfish resources, land use, habitat protection and restoration, and outreach. Jennifer has a bachelor's degree in biology and a master's degree in environmental management.

Dr. Steve Jones, Research Associate Professor, Jackson Estuarine Laboratory, University of New Hampshire. A bacteriologist in the Department of Natural Resources at UNH. He conducts research on ribotyping to track sources of fecal-borne bacteria and on the processes affecting nutrient and microbial nonpoint source pollution in coastal areas; shellfish sanitation and processing; ecology of indigenous estuarine bacterial pathogens; bioremediation of toxic compounds, microbial cycling of trace metals, and microbiology of cultured finfish larvae. He is also project manager for the Gulfwatch monitoring program throughout the Gulf of Maine.

Dr. Ray Konisky has received his Ph.D. from the University of New Hampshire. His research interests include coastal and estuarine ecology, and software simulation modeling of coastal ecosystems. He co-authored the ten-year report *Great Bay Coast Watch 1990-1999.*

Natalie Landry is the Coastal Watershed Coordinator for NHDES. Her main focus is habitat and water quality restoration in the Seacoast. She is also involved in pollution source investigations and environmental monitoring.

Joanne McLaughlin was the coordinator of the Coastal Nonpoint Pollution Control Program for the NH Coastal Program in the Office of State Planning. She is now the coordinator for the City of Manchester's recycling program.

Bill Pagum serves as the GBCW data coordinator and co-authored the ten-year report, *Great Bay Coast Watch 1990-1999.* He has been previously employed in the petrochemical and nuclear propulsion fields, and has a degree in chemical engineering from Cornell University.

Jeff Schloss is an Extension Associate Professor in Zoology and Extension Specialist, Water Resources, UNH Cooperative Extension and Coordinator of the NH Lakes Lay Monitoring Program. He manages a volunteer monitoring program and supports monitoring programs throughout the region and works with watershed water-quality monitoring and modeling, applied limnology, GIS applications for water resources/protection. Jeff also serves as President of the North American Lake Management Society.

Brian Smith is the Research Coordinator for the Great Bay National Estuarine Research Reserve (GBNERR) and works as a marine fisheries specialist for the New Hampshire Department of Fish and Game (Region 3) on monitoring programs for lobsters, oysters and finfish. He also has a background in freshwater fisheries ecology.

Sally Soule is the Coordinator for the NHCP's Nonpoint Source Pollution Control Program. Sally is responsible for developing and coordinating projects that address water quality issues related to polluted runoff. Ms. Soule is particularly interested in understanding how nonpoint source pollution affects aquatic habitat and biota.

Joyce Tugel is a Science Specialist at the Eisenhower Regional Alliance for Mathematics and Science Education in Cambridge, MA, and Director of the National Science Teachers Association's Division of Professional Development. A former classroom teacher, Joyce made inquiry and experimentation integral to her chemistry and physical science curricula at Marshwood High School in South Berwick ME. Ms. Tugel was formerly a research scientist at the University of New Hampshire's Institute for the Study of Earth Oceans and Space.

Advisory Committee

The Advisory Committee provides resources for growth, direction, and sustainability.

Ann Reid is the Great Bay Coast Watch Coordinator and former science teacher for middle and high school students.

Naida Keen is a member of the NH General Court, House of Representatives and has been appointed to the Science, Technology, and Energy Committee. She lives in Lee and is a realtor in the seacoast area. She has been an active support of the Lamprey River Watershed Association.

Sharon Meeker is a Marine Education Specialist, supervises the GBCW program staff and administers the UNH/Sea Grant Marine Docent Program.

Chris Nash is the Director of the DES Shellfish Program, is a University of New Hampshire graduate with a master's in hydrology.

Joe Payne is the Casco Bay Baykeeper, directs Friends of Casco Bay, and formerly worked for Normandeau Associates in the Hampton/Seabrook area.

Bill Penhale is a UNH Marine Docent, a long-time GBCW volunteer, and a retired physician.

Marjorie Smith has represented Durham since 1997 in the NH General Court, House of Representatives. She and her husband, Peter, live on the Oyster River and their dock is one of the original GBCW sampling sites.

Judith Spang is a member of the NH General Court, House of Representatives and a member of the Lamprey River Advisory Commission.

Wes Tator is a long-time GBCW volunteer, lives in Dover, works with the Dover Main Street Program, and is a commercial realtor with Coldstream Realty.

Development Committee

The GBCW formed a development committee is responsible for future development and funding of the program. This committee makes major decisions concerning the events and projects the program will consider, as well as serving as an advisor to the coordinator.

Candace Dolan	Sue Foote	Jennifer Fox
Wally Fries	Muffie Hendricks	Angela Hiley
Kathleen Hudson	Bill Pagum	Wes Tator

Area Leaders

A new addition to the leadership of the GBCW, the Area Leaders serve as liaisons between the volunteers sampling at certain sites and the coordinator and staff. Area leaders are a crucial part to ensure an efficient means of communication. There are six areas within the program, geographically sorting the following sites:

Area	Sites	Leaders
Exeter/Stratham	4, 5, 16	Nate Hazen
Newmarket	3, 12, 13, 14	Michele Wensman/ Lorelei Chernyshov
Durham/Eliot, ME	1, 2, 6, 7, 15	Laura Parsons
Dover	9, 10,17	Lydia Scott/Nell Neal
Portsmouth/New Castle	11, 18, 19, 20, 21, 22	Clif Horrigan
Phytoplankton	All Phytoplankton Sites	Candace Dolan/Steve Cooper

Quality Assurance and Quality Control (QAQC) Team

The QAQC team was formed to assure quality in methods and data for the GBCW. The team was responsible for assisting with the set-up, running and reporting of the QAQC lab sessions, and split sampling in the field.

Linda Albright	Barbara Baird	Malorie Blake
Donna Desautel-Pease	Karen Diamond	Candace Dolan
Jennifer Fox	Clif Horrigan	Ibby Lourie
Sue McCarthy	Peggy Mullin	Liz Sizemore
Barbara Trow		

Water-Sample Processing Team for Fecal Coliform

The Processing Team works in the Fecal Coliform Lab. at Kingman Farm, processing samples from each of the sample sites for each tide. Many of the volunteers on the team come from a laboratory science background, lending their skills and knowledge where the GBCW needs them most.

Elise Blake	Malorie Blake	Donna Desautel-Pease
Karen Diamond	Candace Dolan	Barbara Elkerton
Jennifer Fox	Amber Perkins	Kevin Ronkko
Lydia Scott	Kathy Watson	Michelle Wensman
Sam Wensman	Eileen Williams	

Fecal Coliform QAQC Team

Karen Diamond	Kevin Ronkko	David Waltz
Kathy Watson	Eileen Williams	

Rainfall Characterization Team (Rainfall Runoff Runners)

The GBCW received a grant from the NH Estuaries Project (NHEP) dictating participation in a rainfall characterization study with the Shellfish Program. This study entailed numerous field hours in a short amount of time. This team of volunteers who were "on-call" took water samples from designated culverts, drainpipes, and specific other sites around Hampton/Seabrook Harbor. Additional sampling days took place at sites around Little Harbor.

Barbara Baird	Elise Blake	Malorie Blake
Don Chamberland	Donna Desautels-Pease	Karen Diamond
Candace Dolan	Nate Hazen	Alex Kontor
Judy Kontor	Cheryl Niles	Bill Pagum
Robert Rowe	Lydia Scott	Bill Wetzel
Eileen Williams		

Instream Riparian Habitat Assessment Team

Don Chamberland	Lorelei Chernyshove	Donna Desautels-Pease
Laura Fant	Audrey Fortin	Lydia Scott
Andy Stewart	Barbara Trow	Eileen Williams

Dover Stormwater Investigation Team

Gayle Beaupre	Malorie Blake	Karen Diamond
Ellen Douglas	Tom Fargo	Nate Hazen
Kevin Ronkko	Lydia Scott	Barbara Trow
Eileen Williams		

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Konisky, R., Pagum, W., Reid, A., Schloss, J., and D.M. Burdick, 2000. GBCW 1990-1999; A Ten-Year Report on the Volunteer Water Quality Monitoring of the Great Bay Estuarine System. University of New Hampshire Cooperative Extension/Sea Grant. Technical Report UNH MP – AR-SG-00-12, 32pp.

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I. Appedices

Appendix I

Site Data

Site 1 - Peninsula

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L	WTEMP-H	DO-L	DO-H	SAL-L	SAL-H	SAT-L	SAT-H	pH-L	pH-H	FECAL-L	FECAL-H	LP-L	LP-H	DEPTH-L	DEPTH-H	ATEMP-L	ATEMP-H
					°C	°C	ppm	ppm	ppt	ppt	%	%			CFU/100ml	CFU/100ml	cm	cm			°C	°C
90	1	04/08/90			4.0	6.5	11.30	12.90	9.20	15.80	91.63	116.04	6.9	7.6	*	*	*	113.0	*	*	-2.0	9.5
90	1	04/25/90			9.5	10.0	9.20	8.50	13.20	17.80	87.43	84.06	6.8	8.2	*	*	25.0	120.0	*	*	7.0	11.0
90	1	05/09/90			11.0	18.0	8.60	8.40	11.50	17.90	83.73	98.45	7.2	7.5	*	*	50.0	110.0	*	*	9.5	26.0
90	1	05/24/90			11.0	12.5	7.70	5.40	12.20	17.60	75.28	56.37	7.3	7.6	*	*	85.0	135.0	*	*	6.0	11.0
90	1	06/08/90			17.5	19.5	5.30	8.20	17.40	22.00	61.32	101.35	7.4	7.7	*	*	70.0	135.0	*	*	16.0	21.0
90	1	06/22/90			18.5	19.5	5.70	8.00	18.80	24.40	67.81	100.31	7.2	7.7	*	*	75.0	130.0	*	*	16.0	28.0
90	1	07/06/90			21.0	22.0	5.30	7.40	24.00	26.50	68.19	98.43	7.3	7.8	*	*	60.0	115.0	*	*	12.0	23.0
90	1	07/21/90			23.0	24.5	5.70	7.30	28.20	30.00	77.98	103.65	7.5	7.8	*	*	80.0	120.0	*	*	21.0	29.0
90	1	08/06/90			24.0	23.0	5.90	7.20	27.20	30.20	81.67	99.70	7.3	7.7	*	*	105.0	145.0	*	*	21.0	21.0
90	1	08/20/90			20.0	24.0	5.80	7.30	22.00	28.90	72.38	102.08	*	7.8	*	*	60.0	160.0	*	*	12.0	20.0
90	1	09/03/90			22.0	22.5	5.80	6.80	22.50	26.00	75.35	90.99	7.2	7.7	*	*	110.0	155.0	*	*	16.0	22.5
90	1	09/18/90			14.5	16.5	6.20	7.30	26.10	29.80	71.17	89.31	7.5	7.0	*	*	103.0	235.0	*	*	5.5	10.0
90	1	10/04/90			13.0	16.0	7.80	8.30	26.50	31.00	87.02	101.33	*	7.8	*	*	125.0	230.0	*	*	6.0	23.0
90	1	10/18/90			13.0	16.0	5.80	6.90	17.80	24.00	61.29	80.60	7.4	7.5	*	*	102.0	168.0	*	*	10.0	21.0
90	1	11/02/90			7.5	*	8.70	*	13.20	*	78.87	*	7.2	*	*	*	*	*	*	*	6.0	*
91	1	04/14/91	JS MF JF PS MS BF		7.5	10.5	13.40	10.80	15.80	8.40	123.47	102.06	7.6	7.9	*	*	90.0	115.0	*	*	0.0	11.0
91	1	04/27/91	PS BF JS		12.0	13.0	8.40	9.50	10.30	16.30	83.04	99.47	7.4	7.8	*	*	75.0	95.0	*	*	14.0	24.5
91	1	05/13/91	JS MF JF		15.5	17.5	7.20	8.30	13.70	18.30	78.27	96.53	*	7.5	*	*	40.0	75.0	*	*	12.0	24.0
91	1	05/27/91	PS MS		18.0	19.0	5.60	7.80	19.40	23.70	66.21	96.47	6.6	7.0	*	*	80.0	130.0	*	*	14.0	19.0
91	1	06/11/91	MF BF MS PS		21.0	21.0	5.65	7.30	24.20	27.70	72.78	96.03	7.2	7.7	*	*	60.0	130.0	*	*	21.0	28.0
91	1	06/25/91	AR MS PS		20.0	22.0	6.10	8.25	25.90	28.90	77.92	111.33	6.8	7.8	*	*	75.0	140.0	*	*	19.0	31.5
91	1	07/10/91	MF JF MS PS		19.0	20.0	5.60	8.70	28.90	31.80	71.49	115.23	7.2	7.7	*	*	85.0	110.0	*	*	12.0	35.0
91	1	07/26/91	MS PS		22.5	21.5	5.60	7.60	28.60	31.60	76.11	103.32	7.5	7.6	*	*	85.0	135.0	*	*	22.0	24.0
91	1	08/08/91	MF JF		21.5	21.0	4.20	8.60	30.40	32.10	56.68	116.23	7.4	7.9	*	*	80.0	135.0	*	*	20.0	26.0
91	1	08/24/91	MS PS JS		20.0	22.0	4.20	6.20	8.60	13.90	48.57	76.70	6.5	7.2	*	*	65.0	90.0	*	*	17.0	21.5
91	1	09/07/91	JT MF JF		19.0	21.0	5.20	7.30	21.20	25.00	63.36	94.49	*	*	*	*	120.0	135.0	*	*	18.0	24.0
91	1	09/22/91	MS PS		14.0	17.0	6.10	7.90	19.60	26.90	66.57	95.84	6.7	7.2	*	*	120.0	250.0	*	*	3.0	15.0
91	1	10/06/91	MS PS		15.0	15.0	7.60	7.90	10.80	20.60	80.41	88.56	6.6	7.2	*	*	65.0	140.0	*	*	16.0	18.5
91	1	10/22/91	PS MS		9.5	*	8.80	*	14.80	*	84.45	*	6.8	*	*	*	65.0	*	*	*	1.0	*
91	1	11/06/91	PS MS	BF	6.5	9.0	9.40	8.30	19.60	23.50	86.64	83.20	7.2	7.4	*	*	150.0	240.0	*	*	3.0	*
92	1	04/17/92	MS PS	MS	5.0	6.5	10.60	8.70	13.00	21.60	90.29	81.24	6.8	7.7	*	*	100.0	140.0	*	*	1.0	9.0
92	1	05/02/92	MS PS	MS PS	12.5	12.0	8.75	10.70	13.90	20.30	89.33	112.36	6.7	7.5	*	*	85.0	100.0	*	*	11.0	18.0
92	1	05/16/92	PS JS	PS	14.5	14.0	7.80	9.40	18.00	23.30	85.18	104.94	7.2	7.7	*	*	*	100.0	*	*	10.0	16.5
92	1	05/31/92	PS JS	PS MS RB	17.5	16.5	5.80	8.00	22.60	26.30	69.21	95.74	7.2	7.5	*	*	60.0	120.0	*	*	13.5	16.0
92	1	06/14/92	PS JS	PS MS	20.0	21.0	5.80	7.60	18.00	21.80	70.71	96.53	7.1	*	*	*	60.0	120.0	*	*	21.0	29.0
92	1	06/29/92	PS	KG	20.0	21.5	6.00	7.70	25.40	28.20	76.41	102.53	7.0	7.8	130	2	65.0	150.0	*	*	15.0	30.0
92	1	07/13/92	MS PS	JJ JJ	21.0	21.7	6.90	*	28.20	29.80	91.05	*	6.7	7.8	55	3	90.0	155.0	*	*	22.0	34.0
92	1	07/28/92	MS PS	CN JJ	20.7	20.7	6.60	7.20	25.20	28.60	84.73	94.36	7.1	7.7	172	4	95.0	140.0	*	*	14.0	27.0
92	1	08/10/92	MS PS	JB KG	19.7	21.7	5.40	7.50	25.90	29.80	68.32	100.84	7.4	7.7	54	9	125.0	150.0	*	*	17.5	26.5
92	1	08/27/92	MS PS	JB	22.2	22.2	5.70	7.70	23.90	29.10	74.66	104.03	6.8	7.9	340	4	125.0	155.0	*	*	22.0	29.0
92	1	09/11/92	MS PS	MS	18.7	18.2	5.70	7.60	27.10	29.40	71.28	95.49	7.3	7.3	74	16	130.0	230.0	*	*	19.0	22.0
92	1	09/25/92	MS PS	MS	12.3	13.3	7.20	8.70	25.90	30.70	78.33	99.74	7.2	7.6	33	0	130.0	200.0	*	*	14.0	17.0
92	1	10/10/92	PS JS	JB KG	12.3	12.8	8.20	8.70	17.00	28.80	84.38	97.47	7.1	7.5	TNTC	198	30.0	182.0	*	*	16.5	21.0
92	1	10/24/92	JS CN	JB	8.3	9.1	8.30	8.70	25.90	27.80	82.61	89.72	7.8	7.7	10	10	170.0	300.0	*	*	10.0	15.0
92	1	11/09/92	MS PS	MS PS	1.3	5.3	10.60	10.80	14.10	25.60	81.93	99.91	7.0	7.2	50	110	*	385.0	*	*	-7.0	2.0
93	1	04/21/93	BH EC NW DT	EO BC EG LP	*	14.0	9.10	11.90	3.50	10.30	64.17	122.90	7.2	8.1	200	100	40.0	80.0	170.0	380.0	15.0	19.0
93	1	05/06/93	BH EC DT	BC GC CR LP	16.5	18.0	6.70	8.50	12.20	19.00	73.71	100.26	7.0	7.5	170	*	52.5	95.0	133.0	370.0	18.0	27.0
93	1	05/20/93	BH NW	LP BC EO	13.5	14.0	6.40	7.60	14.00	22.30	66.81	84.32	7.2	7.4	170	20	87.5	90.0	168.0	365.0	15.0	15.0
93	1	06/03/93	EO CR BH	EG BC LP	14.0	15.5	7.20	8.30	22.00	27.70	79.74	98.22	7.5	7.7	20	0	65.0	95.0	125.0	375.0	15.0	23.0
93	1	06/23/93	EO BH	LP NW	20.0	18.0	6.36	7.90	25.80	28.20	81.19	98.52	7.6	7.9	110	10	73.0	110.0	150.0	365.0	20.5	26.0
93	1	07/06/93	EO BH	NW LP	23.0	22.5	5.60	8.00	27.50	29.80	76.29	109.52	7.5	7.9	20	0	102.5	155.0	146.0	365.0	25.2	33.0
93	1	07/22/93	EC PPC LP	EC LP	20.5	18.0	5.50	7.50	28.90	31.20	72.21	95.31	7.3	7.8	20	10	97.5	138.0	135.0	370.0	25.0	24.5
93	1	08/03/93	DT LP	LP KP	23.0	23.0	5.10	7.80	27.10	31.50	69.32	108.86	7.2	7.7	*	*	123.0	158.0	140.0	345.0	23.0	30.0
93	1	08/19/93	NW DT BH	EO BH EFG	23.0	23.0	4.70	7.05	28.00	31.20	64.22	98.21	7.3	7.3	120	0	110.0	190.0	153.0	383.0	19.0	22.5
93	1	09/02/93	LP	DT BH	22.0	22.5	4.50	7.30	31.00	31.10	61.51	100.73	7.4	7.8	50	20	122.0	230.0	155.0	350.0	19.0	25.9
93	1	09/20/93	LP	NW DT BH	16.0	15.5	6.70	7.77	29.00	32.90	80.76	95.08	7.7	7.8	40	0	118.0	230.0	130.0	385.0	14.0	15.0
93	1	10/04/93	GC CR LP	EO DT BH	14.0	16.5	6.50	8.46	28.80	30.90	75.14	104.23	7.4	7.7	10	0	105.0	230.0	165.0	363.0	15.0	24.0

Site 1 - Peninsula

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L °C	WTEMP-H °C	DO-L ppm	DO-H ppm	SAL-L ppt	SAL-H ppt	SAT-L %	SAT-H %	pH-L	pH-H	FECAL-L CFU/100ml	FECAL-H CFU/100ml	LP-L cm	LP-H cm	DEPTH-L	DEPTH-H	ATEMP-L °C	ATEMP-H °C
93	1	10/18/93	EF EC LP	DT CR BH	12.0	12.0	6.69	8.00	28.10	31.10	73.83	90.05	7.1	7.9	10	0	100.0	305.0	165.0	405.0	16.5	21.5
93	1	11/09/93	EF BH	EC NW LP	6.5	6.0	10.25	9.52	22.30	28.50	96.15	92.03	7.9	7.9	15	4	130.0	315.0	130.0	340.0	11.0	0.5
94	1	04/26/94	EC, GC, LP, TS	EC, GC, LP, KP	8.0	8.4	9.40	10.90	13.10	20.00	86.20	104.38	7.1	8.0	30	3	45.0	112.5	120.0	355.0	5.0	7.5
94	1	05/10/94	NW, JL, LP	JL, BH	12.0	13.5	8.20	9.22	8.50	16.70	80.22	97.81	7.4	7.8	30	12	72.5	137.5	165.0	355.0	14.0	16.5
94	1	05/25/94	LP, EO, TT ,BC	EC, TS, DJ, JL	15.0	14.5	7.10	8.80	13.90	7.55	76.48	90.42	7.2	7.6	100	11	140.0	127.5	300.0	375.0	12.0	14.5
94	1	06/09/94	LP, CR, JL	DT, EF, BH	18.0	18.0	6.10	7.83	9.20	25.90	68.03	96.27	7.4	7.8	170	6	102.0	130.0	110.0	325.0	18.0	26.0
94	1	06/23/94	BH, DH, JL, EC	DJ, LP	20.5	20.0	6.50	7.70	26.10	29.60	83.90	100.60	7.5	7.8	9	180	96.5	150.0	120.0	255.0	19.5	26.5
94	1	07/11/94	BH, NW	JT, BH	23.5	24.1	6.05	8.00	27.60	30.60	83.21	113.01	7.6	7.9	110	0	102.5	192.5	147.0	350.0	21.8	29.8
94	1	07/25/94	LP, KM	NW BH DH	24.5	24.5	4.80	7.03	28.60	30.20	67.59	99.93	7.3	7.8	34	10	98.0	155.0	145.0	350.0	24.0	28.8
94	1	08/09/94	BH, JT, DJ, DH	LP, EC, KP	22.1	22.5	5.93	7.90	29.10	30.90	80.12	108.88	7.6	8.0	14	2	149.0	122.5	155.0	455.0	20.0	27.0
94	1	08/22/94	LP, KM, JB	EC, KP, LP	22.0	19.0	5.20	7.00	24.60	29.20	68.39	89.53	7.2	7.8	TNTC	9	98.0	163.0	135.0	350.0	20.0	17.0
94	1	09/07/94	LP	BH, JF, BC	15.5	18.0	7.20	7.70	26.50	30.20	84.56	97.24	7.5	7.6	44	1	83.0	218.7	140.0	385.0	12.0	23.5
94	1	09/21/94	BH, BM	JB, KP, LP	16.7	19.0	7.70	9.70	27.90	31.20	93.07	125.63	7.6	7.8	20	0	98.5	205.0	140.0	347.0	14.9	28.0
94	1	10/06/94	DJ, EC, LP	JF, JL, GC, JB	11.5	13.0	8.20	9.13	20.50	25.60	85.27	101.27	8.2	7.8	15	1	63.0	150.0	120.0	365.0	6.0	19.5
94	1	10/20/94	JB, BM, BH	NW, JL, LP	13.0	13.0	8.06	9.50	26.80	29.40	90.09	107.99	8.2	8.1	*	0	108.5	190.0	179.0	380.0	15.5	16.0
94	1	11/07/94	EG, BH	LP, KP, JL	10.0	11.0	7.84	8.10	14.90	28.90	76.16	87.95	7.6	7.8	52	7	25.0	100.0	60.0	170.0	8.2	13.0
95	1	04/18/95	GC, RJ, LP	BH, JB, CB	10.0	10.0	10.50	11.10	17.50	22.50	103.64	113.08	7.6	8.0	1	0	123.0	165.0	133.0	355.0	13.0	12.0
95	1	05/01/95	LP, CM	JL, CJ, BH	10.5	11.0	8.90	10.25	17.20	25.10	88.67	108.56	7.7	8.3	1	9	80.0	132.5	150.0	350.0	9.0	10.0
95	1	05/15/95	EC, CB, LP	BH, AW, RQ	13.0	11.0	7.30	9.20	20.40	25.00	78.37	97.38	6.8	7.8	32	1	60.0	129.0	125.0	375.0	10.0	8.0
95	1	05/30/95	RJ, NW, LP	JT, CJ, CG, BH	17.5	17.9	5.80	7.80	19.40	24.80	67.90	94.33	7.2	7.9	35	0	62.5	146.0	125.0	345.0	21.0	31.3
95	1	06/13/95	LC, BM, ST, LP	ET CG CJ BH	18.0	17.5	4.95	7.60	22.70	27.20	59.69	93.28	7.2	7.7	NA	6	82.5	127.5	125.0	360.0	22.5	17.5
95	1	06/27/95	EC, LP, BM	BH, RJ	21.5	21.5	6.00	8.12	25.80	29.00	78.75	108.65	7.7	7.9	57	1	101.0	155.0	135.0	330.0	18.0	21.8
95	1	07/12/95	LP	LP, AW	20.5	22.0	4.70	7.55	27.80	30.80	61.29	103.07	7.4	7.8	54	NV	92.5	130.0	155.0	355.0	21.5	24.5
95	1	07/27/95	RQ, AR	LP, CG, RJ	24.5	26.5	4.40	6.80	22.70	29.50	59.86	99.62	7.7	8.0	88	0	90.0	157.5	135.0	330.0	24.3	33.0
95	1	08/10/95	BAH, JL	LP, BM, JB	22.1	25.0	5.15	7.40	25.30	28.90	68.01	105.30	7.5	7.9	160	1	142.0	77.0	150.0	350.0	14.5	28.5
95	1	08/28/95	ET, LP, CM	RJ, ET, BH	19.5	20.0	7.10	7.45	28.90	30.20	91.50	97.70	8.0	7.7	NV	NV	101.0	139.5	138.0	355.0	16.0	26.0
95	1	09/11/95	BH, RG, EB	AW, DJ, CG, CJ, LP	16.0	18.5	8.60	*	29.60	30.70	104.05	*	7.6	7.9	22	1	61.0	185.0	130.0	360.0	17.0	29.5
95	1	09/26/95	BH, BM, AW	CB, LP	14.5	15.0	6.50	7.50	29.00	32.40	76.01	90.58	7.7	7.8	40	0	55.0	183.0	145.0	380.0	16.5	14.0
95	1	10/10/95	ET, ST, BH	AW, BM, LP	13.5	16.0	6.61	7.75	28.20	30.60	75.33	94.37	7.6	7.7	20	0	90.0	150.0	155.0	370.0	11.5	18.0
95	1	10/26/95	BM, CG, LP	CJ, BH, DM, BH	12.0	13.5	6.40	9.45	21.80	26.20	67.84	106.32	7.5	7.6	30	0	84.5	182.5	132.0	386.0	7.0	18.5
95	1	11/09/95	BM, LP, EB, NW	ET, EB, BH	5.0	6.3	6.90	9.25	9.80	16.70	57.61	82.68	7.0	7.3	110	80	*	122.5	*	165.0	7.5	-1.0
96	1	04/18/96	BH, ET, EB	LP, BM	7.2	9.0	11.30	11.30	1.60	7.40	94.44	102.53	6.6	6.6	80	20	35.0	65.0	190.0	345.0	12.5	21.0
96	1	05/06/96	NW, RJ, MH	AW, LP	11.0	10.0	8.30	9.30	9.40	21.60	79.81	94.20	6.8	7.1	30	100	67.5	140.0	155.0	330.0	5.0	11.0
96	1	05/20/96	ET, BH		16.0	17.0	7.20	8.90	7.40	15.40	76.31	100.77	6.6	7.2	700	10	108.5	115.0	185.0	360.0	21.0	34.0
96	1	06/03/96	CB, AW, BH		18.0	17.5	6.80	7.90	16.30	21.20	78.96	93.48	7.2	7.6	50	27	49.0	107.5	120.0	345.0	19.0	18.0
96	1	06/17/96	BH, KP, EB		22.5	22.5	5.70	7.80	20.00	25.20	73.65	103.88	7.0	7.6	44	2	80.0	112.5	145.0	330.0	29.0	26.0
96	1	07/01/96	EB, KP, LP		19.0	20.0	5.10	7.80	25.00	27.00	63.57	110.30	7.0	6.9	108	1	70.0	148.0	145.0	350.0	18.5	27.0
96	1	07/15/96	DJ, BH		20.5	23.0	6.60	7.10	8.90	16.30	77.19	90.68	6.9	7.4	120	410	68.0	87.0	110.0	345.0	19.0	24.0
96	1	07/30/96	BH, BH, DM		22.0	21.0	5.40	7.40	20.40	25.40	69.30	142.72	5.1	7.1	*	*	82.5	132.0	120.0	360.0	18.5	23.0
96	1	08/14/96	BH		21.0	23.0	5.40	8.90	25.40	27.60	70.28	121.33	7.2	7.6	280	4	118.0	142.5	150.0	335.0	16.5	26.0
96	1	08/29/96	AW, BH		20.0	21.0	5.20	6.90	27.60	30.00	67.11	92.05	7.5	7.8	70	0	91.0	142.0	140.0	385.0	16.2	27.0
96	1	09/16/96	DJ, LP		18.5	19.0	5.50	6.80	29.40	30.20	69.76	87.52	7.6	8.0	8	6	135.0	187.0	195.0	377.0	16.0	20.5
96	1	09/30/96	LP		15.5	16.0	6.70	7.90	26.40	30.30	78.64	96.01	7.8	7.9	18	0	78.0	203.0	135.0	370.0	17.0	22.5
96	1	10/15/96	BH, RG, DJ		8.0	12.0	8.20	8.60	25.30	28.50	81.29	95.16	7.8	8.0	8	6	50.0	142.5	140.0	355.0	6.5	12.0
96	1	10/29/96	AW, AB, GS, AC		9.0	11.0	8.30	8.60	5.50	12.20	74.48	84.08	6.9	7.5	36	16	54.0	48.0	164.0	375.0	10.0	12.0
96	1	11/06/96	*	*	*	*	*	*	*	*	*	*	*	*	14	10	*	*	*	*	*	*
97	1	04/23/97	BH	LP	9.0	11.5	9.50	10.40	2.30	6.40	83.70	99.40	7.4	7.2	1	0	68.0	82.5	175.0	365.0	12.0	14.5
97	1	05/06/97	BH, DM, KG, BH	LH, AL, LP	11.0	11.0	8.40	9.30	9.60	16.00	80.90	93.00	7.4	7.6	12	153	37.0	70.0	150.0	360.0	12.0	10.0
97	1	05/22/97		RG, LP	*	13.0	*	9.30	*	21.18	*	100.32	*	7.8	*	*		100.0		345.0		19.0
97	1	06/05/97	AL, BH	KW, AW, RQ	15.5	15.0	11.50	9.20	18.30	24.60	128.45	105.71	7.6	8.0	*	*	73.0	123.0	140.0	360.0	17.0	16.0
97	1	06/23/97	BH, KP, EB	LP, BH, DM	22.5	22.5	5.70	7.75	20.00	25.25	102.90	103.25	7.0	7.6	56	2	80.0	112.5	145.0	330.0	29.0	26.0
97	1	07/07/97	JJ, JJ	LP, AR	24.0	22.0	6.60	8.00	28.20	29.20	91.91	108.15	7.7	7.9	26	2	60.0	102.0	125.0	338.0	26.0	28.0
97	1	07/21/97	BH, GS, DM	DM, KP, LP	22.0	20.0	6.50	7.30	24.30	26.40	85.34	93.53	7.8	7.8	25	*	65.0	135.0	145.0	350.0	21.0	18.5
97	1	08/04/97	KP, EB, LP	BH, DS, BH	22.5	21.0	7.00	7.91	27.20	28.90	94.34	104.82	7.8	7.9	28	1	70.0	150.0	130.0	360.0	20.0	24.5
97	1	08/19/97	BH	LP., DS, LP	21.0	21.5	5.52	6.90	28.35	29.20	72.90	92.43	7.4	7.9	40	3	107.5	190.0	125.0	365.0	19.0	27.0
97	1	09/03/97	JF	JF	20.5	20.0	4.90	6.80	26.25	29.00	63.30	88.51	7.0	8.0	6	0	135.0	160.0	160.0	365.0	16.0	20.0
97	1	09/18/97	AL, BH	BB, LP	19.0	20.0	6.00	7.60	27.45	29.75	75.92	99.39	7.7	8.1	*	*	103.0	182.5	140.0	315.0	17.5	28.0

Site 1 - Peninsula

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L	WTEMP-H	DO-L	DO-H	SAL-L	SAL-H	SAT-L	SAT-H	pH-L	pH-H	FECAL-L	FECAL-H	LP-L	LP-H	DEPTH-L	DEPTH-H	ATEMP-L	ATEMP-H
					°C	°C	ppm	ppm	ppt	ppt	%	%			CFU/100ml	CFU/100ml	cm	cm			°C	°C
97	1	10/02/97	KW, LP, LP	BH, AL	12.0	15.0	7.60	8.25	27.15	30.45	83.36	98.38	8.0	8.1	11	0	105.0	197.5	150.0	345.0	8.0	19.0
97	1	10/17/97	LSP	BH, BH	11.5	13.5	7.00	8.48	27.75	30.30	76.25	97.97	7.9	8.2	30	1	120.0	267.5	148.0	405.0	9.0	15.5
97	1	11/03/97	EB, LP	BH	10.0	12.5	8.10	9.35	12.20	22.25	77.41	100.45	7.6	8.0	TNTC	*	50.0	107.5	175.0	386.0	8.0	14.5
98	1	05/12/98	BH, RG	CG, LP	11.0	13.0	8.35	8.80	4.00	11.30	77.82	89.45	7.1	7.5	146	68	85.0	97.0	110.0	365.0	9.0	13.0
98	1	06/10/98	SW, BH, AM, BM	LP, KW, LP	17.5	19.0	6.90	10.10	20.55	23.90	81.33	125.07	7.2	7.8	19	0	96.5	162.5	150.0	335.0	17.0	24.0
98	1	07/09/98	RB, SB	RB, AR	22.0	24.0	5.20	7.40	11.05	15.60	63.33	95.87	7.2	7.4	TNTC	26	84.0	138.0	165.0	350.0	22.0	27.0
98	1	08/10/98	DS, LP	KP, LP	23.5	24.0	5.50	7.00	27.30	28.20	75.51	97.48	7.1	7.6	TNTC	1	65.0	100.0	125.0	300.0	25.0	33.5
98	1	09/09/98	DS, CG, BB, LP	LM, LP	18.5	17.5	5.90	7.30	29.20	29.10	74.74	90.66	7.6	7.6	106	3	138.0	150.0	225.0	395.0	15.0	16.0
98	1	10/07/98	LP, AM, SW	BB, JM, MRS.P	10.5	12.0	8.00	8.45	29.35	29.40	86.17	94.05	7.7	7.7	14	0	97.0	185.0	138.0	370.0	6.0	16.0
98	1	11/05/98	LP	WM, SW, DS, LP	6.0	8.5	8.50	9.20	11.10	27.25	73.35	93.45	7.5	7.4	1	7	105.0	165.0	120.0	390.0	9.0	14.0
99	1	04/29/99	LP	LP	10.0	11.0	8.60	9.80	19.90	23.85	86.17	102.97	7.4	7.7	66	0	110.0	135.0	145.0	325.0	9.0	19.0
99	1	05/17/99	LP, SW, LP	DS, LP	15.0	17.0	7.00	8.25	22.35	25.95	79.32	99.50	7.6	8.0	88	0	70.0	152.5	160.0	350.0	14.0	22.0
99	1	06/15/99	LP	LP. CG. BB	21.5	20.0	5.10	7.30	26.50	28.90	67.22	94.96	7.4	7.7	174	20	65.0	140.0	155.0	360.0	22.5	26.0
99	1	07/13/99	LP	LP	20.5	19.5	5.80	7.40	28.60	30.50	76.01	96.31	7.7	7.8	30	0	90.0	150.0	120.0	345.0	17.0	23.0
99	1	08/12/99	LP	LP, MW,BB	19.5	19.5	4.80	7.50	28.95	32.45	61.88	98.82	7.5	7.8	26	0	85.0	147.5	140.0	360.0	21.0	29.5
99	1	09/13/99	JW, TH	LP	22.0	22.0	4.90	7.80	24.50	28.50	64.41	105.00	7.4	8.0	24	70	105.0	127.5	140.0	355.0	21.5	25.0
99	1	10/12/99	SW,BM,CG,LP	LP,AB,PM,JW,BB,AT,TH	12.0	13.5	8.00	8.00	25.20	26.85	86.65	90.38	7.8	7.8	10	0	125.0	200.0	*	305.0	6.0	12.0
99	1	11/09/99	LP	LP	5.0	8.0	8.90	9.00	17.30	23.40	77.91	88.11	7.4	7.7	26	6	138.0	115.0	145.0	335.0	3.0	12.5
00	1	04/19/00	CG, KM, PM, JM,CH	CG,JW,LP	9.0	8.5	9.60	10.60	10.60	20.85	88.78	103.25	7.5	7.8	123	3	123.0	115.0	150.0	370.0	5.0	26.0
00	1	05/18/00	LP, JW, PM, KM,	LP, JW, KP	15.0	15.0	6.50	8.60	15.00	20.40	70.47	96.29	7.3	7.5	20	2	80.0	125.0	135.0	345.0	15.5	22.0
00	1	06/19/00	JW	LP	20.5	21.5	5.30	7.20	17.00	21.90	64.86	92.35	7.3	7.7		10	67.5	105.0	140.0	335.0	20.0	26.0
00	1	07/17/00	JW, LP, AP	JW, LP	19.0	20.5	6.10	7.30	12.30	24.70	70.61	93.44	7.2	7.8	600	150	75.0	117.0	155.0	350.0	17.0	20.0
00	1	08/15/00	LP, JW	LP, JW	20.0	21.0	5.30	6.50	15.30	22.20	63.63	82.75	7.1	7.7	450	5	75.0	135.0	155.0	340.0	19.0	22.0
00	1	09/14/00	JG, AC, BH, JM, EB, JW, LP, RS	LP, JW, RS	20.0	20.0	6.40	8.25	26.90	30.70	82.25	108.52	7.6	7.9	28	0	115.0	138.0	145.0	340.0	15.0	22.5
00	1	10/16/00	LP	JP, JW, LH, BB, KG	13.0	8.0	8.30	8.10	26.50	28.90	92.59	82.27	7.8	8.0	0	0	53.0	222.5	165.0	355.0	13.5	8.0
00	1	11/13/00	JW, BB	LP, LH, ON, JG, BH	*	11.0	*	8.90	*	23.60	*	93.36	*	7.4				190.0		215.0	7.0	14.0
01	1	04/24/01	JW	JW	14.0	16.0	9.10	10.00	6.80	12.70	92.12	109.22	7.5	7.8	16	2	112.5	130.0	145.0	360.0	17.0	29.0
01	1	05/23/01	BH, JG, SH, LP	JW, PM, LH	15.0	18.0	6.30	8.70	19.80	22.70	117.11	104.91	7.3	7.7	34	1	72.5	142.5	135.0	350.0	17.0	19.0
01	1	06/21/01	JW,LP	JW, LP	22.5	21.5	5.10	7.10	13.20	20.80	91.80	90.49	7.2	7.7	0	130	42.5	82.5	120.0	335.0	18.5	19.0
01	1	07/23/01	LP,JW	LP, JW	24.0	24.0	6.30	8.10	25.00	29.00	120.22	113.33	7.4	7.9			80.0	140.0	115.0	360.0	26.0	33.5
01	1	08/20/01	LP	LP	22.5	21.0	5.50	7.50	27.80	30.20	74.39	100.18	7.3	7.7	80	2	80.0	145.0	145.0	375.0	21.5	22.0
01	1	09/18/01	AC, JM, JZ, DH, HV, LP	JW, LH, EL	17.0	19.0	6.00	8.20	29.00	30.80	73.76	105.94	7.6	8.0	31	0	98.0	217.5	135.0	285.0	19.0	26.5
01	1	10/17/01	SH, JG, BH, HV, LP	LP, DH, JZ	13.5	13.0	7.20	8.10	23.95	30.80	79.86	92.93	8.2	8.8	310	7	95.0	200.0	165.0	410.0	14.0	14.0
01	1	11/01/01	JW	SH, JC, BH, DH, LH, LP	8.0	10.0	8.50	8.90	29.80	30.10	86.86	95.31	8.5	7.8	0	0	145.0	355.5	145.0	360.0	7.0	14.3
02	1	04/29/02	LP, JR, AW, LH, EY	JW	5.0	7.0	9.20	10.00	9.90	19.60	76.86	93.29	7.1	7.9	32	2	70.0	115.0	150.0	370.0	5.0	7.0
02	1	05/28/02	BH,EY,JG,LH,DH,JR,LP	JW	20.0	22.0	6.80	8.20	14.80	19.80	81.40	104.88	6.9	7.6	41	5	55.0	135.0	110.0	335.0	20.0	22.0
02	1	06/25/02	LP	LP	19.0	20.5	6.20	7.60	12.60	19.10	71.89	94.13	7.3	7.6	74	2	63.0	110.0	130.0	360.0	21.0	26.0
02	1	07/25/02	LP	LP	21.5	22.0	6.10	7.90	24.50	28.80	79.44	106.54	7.8	7.7	18	0	85.0	100.0	125.0	345.0	21.0	23.0
02	1	08/26/02	JW	LP	22.0	23.0	5.70	7.60	29.50	31.40	77.20	106.01	7.5	7.6	6	0	110.0	170.0	145.0	350.0	26.5	28.0
02	1	09/23/02	HV, JP, LH, LP	LP	23.0	21.0	5.30	8.50	24.50	31.00	70.94	114.10	7.4	7.8	>600	20	58.0	160.0	162.0	355.0	23.0	25.0
02	1	10/22/02	JR,EY,HV,LP,LH	EG, AL-F,SC,TF,LP	8.0	11.5	7.50	8.30	28.5	29.8	75.97	91.64	8.8	7.9	4	0	113.0	217.5	167.0	350.0	-1.0	13.0
02	1	11/06/02	LP	LP,LH,SC,AL-F	6.5	8.5	9.1	8.9	25.0	28.6	86.91	91.23	7.4	7.5	4	2	115.0	290.0	190.0	340.0	7.0	9.0

Site 2 - JEL

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L °C	WTEMP-H °C	DO-L ppm	DO-H ppm	SAL-L ppt	SAL-H ppt	SAT-L %	SAT-H %	pH-L	pH-H	FECAL-L CFU/100ml	FECAL-H CFU/100ml	LP-L cm	LP-H cm	DEPTH-L cm	DEPTH-H cm	ATEMP-L °C	ATEMP-H °C
90	2	04/08/90			5.0	5.2	10.8	10.7	13.2	18.3	92.11	94.28	7.5	6.8	*	*	75.0	90.0	*	*	5.0	9.0
90	2	04/25/90			8.5	11.0	9.5	8.1	18.4	21.7	91.10	83.53	7.4	7.8	*	*	90.0	105.0	*	*	9.0	11.5
90	2	05/09/90			13.0	12.0	9.0	9.0	21.6	23.0	97.34	96.12	*	7.2	*	*	105.0	110.0	*	*	11.0	23.0
90	2	05/25/90			10.1	12.0	8.5	9.2	18.8	19.0	84.59	95.83	7.5	7.5	*	*	95.0	95.0	*	*	4.4	16.0
90	2	06/08/90			17.5	17.0	8.5	8.0	21.8	23.8	100.94	95.22	7.3	7.6	*	*	95.0	120.0	*	*	23.0	22.0
90	2	06/22/90			18.5	18.0	7.2	7.6	26.1	28.0	89.48	94.66	*	*	*	*	105.0	140.0	*	*	19.0	28.0
90	2	07/06/90			20.5	21.0	7.9	7.3	26.0	27.4	101.91	95.86	7.9	*	*	*	140.0	135.0	*	*	22.0	26.0
90	2	07/21/90			24.0	20.0	6.6	7.3	29.5	30.4	92.62	95.85	*	6.9	*	*	100.0	155.0	*	*	24.0	26.0
90	2	08/06/90			24.0	22.5	6.2	7.1	28.2	30.2	86.34	97.43	7.4	7.1	*	*	90.0	150.0	*	*	23.0	23.0
90	2	08/19/90			20.0	22.0	7.2	8.0	27.2	30.4	92.69	108.95	7.8	*	*	*	100.0	110.0	*	*	14.0	19.0
90	2	09/04/90			20.0	22.0	6.5	7.7	25.5	25.5	82.83	101.81	7.7	7.1	*	*	100.0	165.0	*	*	13.0	22.0
90	2	09/18/90			14.0	16.0	7.6	7.4	29.5	30.0	88.26	89.76	7.4	7.5	*	*	130.0	175.0	*	*	6.0	13.0
90	2	10/04/90			13.0	15.0	7.7	7.7	29.4	31.6	87.53	92.51	7.9	7.6	*	*	180.0	180.0	*	*	10.0	15.0
90	2	10/18/90			14.0	15.0	7.4	7.3	23.0	24.8	82.46	83.98	7.7	7.5	*	*	135.0	130.0	*	*	15.0	23.0
90	2	11/02/90			*	10.0	*	8.8	*	22.5	*	89.65	*	7.6	*	*	*	150.0	*	*	*	19.0
91	2	04/13/91	WP JH SJ		8.0	8.5	10.3	10.8	20.5	22.4	98.95	106.25	8.3	8.1	*	*	60.0	125.0	*	*	2.0	10.0
91	2	04/23/91	WP		7.5	*	9.3	*	15.8	*	85.87	*	*	*	*	*	35.0	*	*	*	10.0	*
91	2	04/27/91	WP JH SJ		11.0	12.0	9.4	10.3	14.8	17.5	93.35	106.31	7.5	7.5	*	*	70.0	120.0	*	*	19.0	25.0
91	2	05/13/91	JJ AR BP		15.0	14.5	7.8	7.6	17.0	21.3	85.57	84.67	7.3	7.6	*	*	65.0	86.0	*	*	19.0	25.0
91	2	05/28/91	JH SJ DJ		18.0	18.0	6.1	7.8	24.0	25.4	74.62	95.12	7.7	7.6	*	*	105.0	150.0	*	*	16.0	30.0
91	2	06/12/91	JH WP		19.0	19.0	7.2	7.9	26.8	29.1	90.74	100.98	7.8	7.4	*	*	100.0	145.0	*	*	18.0	26.0
91	2	06/25/91	JT		20.5	19.5	7.7	7.8	28.9	29.3	100.57	100.77	7.9	7.9	*	*	83.0	125.0	*	*	16.5	29.0
91	2	07/11/91	JT WP		19.5	18.5	6.4	7.4	29.7	31.5	82.37	95.63	7.8	7.8	*	*	121.0	150.0	*	*	18.5	26.0
91	2	07/26/91	JH SJ WP		22.0	22.0	6.8	8.1	31.1	31.8	93.00	111.26	7.8	7.4	*	*	110.0	185.0	*	*	22.0	24.0
91	2	08/09/91	SJ WP		22.0	20.0	7.2	7.4	31.8	31.2	98.90	97.65	7.9	7.8	*	*	130.0	190.0	*	*	19.0	26.0
91	2	08/25/91	JT JH		20.0	21.0	6.1	6.9	13.5	16.6	72.49	85.05	6.8	7.4	*	*	110.0	90.0	*	*	17.0	23.0
91	2	09/08/91	BP		18.0	18.0	7.1	7.1	25.1	26.9	86.87	87.21	7.7	7.7	*	*	110.0	140.0	*	*	18.0	24.0
91	2	09/23/91	BP SJ		15.0	16.0	7.5	7.5	27.2	23.1	87.59	87.13	7.5	7.6	*	*	180.0	250.0	*	*	12.0	19.0
91	2	10/06/91			13.0	16.0	7.3	8.0	20.3	21.5	78.32	92.04	7.1	6.5	*	*	100.0	150.0	*	*	5.0	12.0
91	2	10/23/91	SJ BP BG		10.0	12.0	8.9	8.6	20.8	22.9	89.19	91.79	7.8	7.6	*	*	145.0	190.0	*	*	5.0	15.0
91	2	11/06/91	BG BP	BG BP	8.0	9.0	9.0	9.0	23.1	26.8	87.94	92.20	7.5	7.6	*	*	175.0	205.0	*	*	0.0	9.0
92	2	04/16/92	MS BP	MS BP	7.0	7.0	11.4	11.4	20.8	23.5	107.18	109.10	8.0	8.1	*	*	75.0	127.0	*	*	3.0	8.0
92	2	05/01/92	MS BP	MS BP	12.0	11.0	10.7	10.3	17.8	20.8	110.12	106.14	8.0	7.9	*	*	80.0	90.0	*	*	13.0	17.0
92	2	05/15/92	MS BP	MS BP	13.5	14.0	8.8	9.7	21.4	24.7	96.07	108.68	7.8	7.8	*	*	90.0	135.0	*	*	12.0	14.0
92	2	05/31/92	BP	BP	16.0	15.5	8.1	8.7	26.3	27.4	95.39	102.76	7.8	7.7	*	*	100.0	140.0	*	*	13.5	16.0
92	2	06/15/92	BP	BP	19.5	20.5	7.1	7.6	22.2	23.4	87.86	96.53	7.7	7.8	*	*	80.0	120.0	*	*	19.0	21.0
92	2	06/30/92	MS BP	MS BP	20.0	20.0	8.1	7.9	28.0	29.5	104.15	103.15	7.8	7.7	*	*	105.0	152.0	*	*	22.0	26.0
92	2	07/13/92	MS	MS	20.4	20.5	7.7	7.5	29.3	31.5	100.42	100.06	7.8	7.8	3	1	125.0	200.0	*	*	23.0	28.0
92	2	07/29/92	MS BP	MS BP	20.4	20.0	6.6	7.5	28.0	30.2	85.39	98.35	7.6	7.9	1	3	95.0	160.0	*	*	18.0	27.0
92	2	08/13/92	BP	MS BP	20.0	19.0	7.0	8.0	32.5	30.2	93.12	102.32	7.8	7.7	29	1	150.0	210.0	*	*	16.0	19.0
92	2	08/27/92	MS BP	MS BP	21.4	19.9	7.1	7.1	27.7	29.1	93.40	91.61	7.6	7.9	8	2	180.0	190.0	*	*	22.0	25.0
92	2	09/11/92	MS BP	MS BP	20.5	19.0	7.0	7.6	29.1	30.2	92.02	97.82	7.5	7.8	4	2	200.0	265.0	*	*	18.0	22.0
92	2	09/25/92	BP	BP	14.0	16.0	8.4	8.6	30.4	31.1	98.12	105.06	7.8	7.8	4	1	150.0	195.0	*	*	1.0	15.0
92	2	10/11/92	MS BP	MS BP	15.5	16.0	8.7	9.0	31.1	30.2	105.22	108.70	7.9	7.9	5	10	260.0	380.0	*	*	17.0	17.0
92	2	10/25/92	BP	MS	11.5	11.5	9.1	8.9	28.5	29.8	99.61	98.26	8.0	7.6	10	0	195.0	200.0	*	*	8.0	9.0
92	2	11/09/92	MS BP	MS BP	6.0	9.0	10.3	9.8	25.6	27.7	97.62	101.00	7.9	7.9	30	30	230.0	370.0	*	*	-2.0	3.5
93	2	04/21/93	MS BP	BP NP MS	10.0	11.5	10.6	11.2	7.3	10.9	98.40	109.87	7.1	*	10	10	65.0	75.0	250.0	450.0	18.0	20.0
93	2	05/06/93	BP NP MS	MS	14.5	13.5	11.7	11.2	17.0	20.2	127.01	121.37	7.2	7.8	*	30	85.0	90.0	225.0	460.0	36.0	25.0
93	2	05/20/93	BP MS	MS BP	13.5	13.5	7.5	8.0	23.3	23.3	82.85	88.37	6.7	7.5	0	10	90.0	110.0	245.0	460.0	12.0	18.0
93	2	06/03/93	BP NP MS	BP NP MS	13.5	12.5	7.8	8.3	24.9	27.5	87.04	92.21	7.4	7.5	10	0	55.0	115.0	205.0	440.0	13.0	25.0
93	2	06/23/93	NP BP	NP BP	18.0	17.5	7.4	7.5	27.2	28.9	91.71	93.03	*	7.6	20	20	55.0	100.0	210.0	540.0	20.0	30.0
93	2	07/06/93	ML BP	ML BP	21.0	20.5	7.2	8.0	29.9	31.2	96.00	106.53	7.8	7.6	*	0	135.0	177.5	240.0	440.0	26.0	31.0
93	2	07/22/93	ML NP	NP ML	20.5	18.5	6.8	8.0	30.3	31.2	90.05	102.63	7.7	7.8	0	0	117.0	155.0	230.0	470.0	22.0	25.0

Site 2 - JEL

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L	WTEMP-H	DO-L	DO-H	SAL-L	SAL-H	SAT-L	SAT-H	pH-L	pH-H	FECAL-L	FECAL-H	LP-L	LP-H	DEPTH-L	DEPTH-H	ATEMP-L	ATEMP-H
					°C	°C	ppm	ppm	ppt	ppt	%	%			CFU/100ml	CFU/100ml	cm	cm	cm	cm	°C	°C
93	2	08/03/93	BP	BP	21.0	21.0	6.9	7.9	30.7	33.1	91.78	106.76	7.7	7.9	*	*	140.0	130.0	250.0	430.0	25.0	30.0
93	2	08/19/93	BP MS	BP MS	21.0	20.0	5.9	7.0	32.4	31.6	79.89	92.60	7.7	7.7	0	0	135.0	170.0	220.0	470.0	24.0	29.0
93	2	09/02/93	BP MS	BP MS	21.5	22.5	6.0	8.2	32.5	31.9	82.03	113.71	7.9	8.0	0	2	160.0	290.0	240.0	440.0	20.0	26.0
93	2	09/20/93	BP MS	BP MS	14.5	14.5	7.1	8.0	31.4	31.4	84.33	95.01	7.7	7.8	1	0	200.0	250.0	240.0	465.0	15.0	15.0
93	2	10/04/93	BP MS	BP MS	13.5	14.5	7.9	8.2	30.1	30.1	91.15	96.57	7.8	7.9	10	0	140.0	260.0	260.0	455.0	16.0	22.0
93	2	10/18/93	BP MS	BP MS	10.0	10.0	8.2	8.8	30.9	30.9	88.29	94.75	7.8	7.9	10	3	250.0	230.0	250.0	490.0	17.0	20.0
93	2	11/09/93	BP MS	BP MS	*	*	10.5	9.3	*	*	*	*	7.9	7.9	8	6	230.0	460.0	230.0	460.0	10.5	5.0
94	2	04/26/94	JP BP	JP BP	8.0	7.5	9.9	10.2	18.4	22.2	93.84	97.91	7.6	7.8	4	33	105.0	130.0	210.0	250.0	2.0	13.0
94	2	05/10/94	JP BP	JP BP	12.0	12.0	8.9	8.9	17.8	19.0	92.03	92.71	7.8	7.8	15	14	123.0	163.0	230.0	230.0	*	18.0
94	2	05/25/94	JP BP MS	BP MS	14.0	12.0	7.9	8.7	19.3	21.7	86.05	91.63	7.7	7.6	5	2	105.0	137.0	225.0	465.0	12.0	15.0
94	2	06/09/94	BP	BP JP	17.0	17.0	8.0	8.3	24.0	25.6	95.34	99.89	7.6	7.6	2	*	130.0	168.0	225.0	420.0	19.0	24.0
94	2	06/23/94	BP MS	JP MS	20.0	18.0	6.4	7.6	29.5	30.2	83.57	95.97	7.6	7.8	12	7	127.0	165.0	215.0	445.0	21.0	29.0
94	2	07/11/94	BP MS	BP MS	22.0	20.6	6.8	7.8	29.1	29.0	91.87	102.47	7.8	7.6	3	3	152.0	177.0	260.0	405.0	24.0	27.0
94	2	07/25/94	BP MS	BP MS	23.5	22.0	5.7	6.5	29.8	30.4	79.43	88.52	7.8	*	1	3	116.0	150.0	230.0	460.0	24.0	29.0
94	2	08/09/94	BP MS	BP MS	21.0	20.5	6.5	8.0	31.7	30.2	87.63	105.88	7.9	7.7	2	1	125.0	135.0	235.0	440.0	20.0	26.0
94	2	08/22/94	MS JP	MS JP	19.5	18.0	6.5	7.4	30.9	30.7	84.81	93.74	7.5	7.6	*	*	150.0	175.0	240.0	465.0	19.5	16.5
94	2	09/07/94	BP MS	BP MS	15.0	16.0	7.4	7.8	29.0	30.6	87.42	94.98	7.8	7.8	2	1	162.0	155.0	235.0	480.0	14.0	23.0
94	2	09/21/94	BP MS	BP MS	16.0	16.5	8.4	9.2	30.3	30.6	102.09	113.13	8.4	8.4	1	1	165.0	270.0	245.0	470.0	17.0	23.0
94	2	10/06/94	BP MS	BP MS	12.0	13.0	9.6	8.0	24.2	28.1	103.31	90.17	8.4	8.4	1	2	122.0	145.0	225.0	475.0	9.0	13.0
94	2	10/20/94	JP BP	JP BP	12.0	14.0	10.2	9.0	27.8	29.5	112.35	104.52	8.4	*	0	0	177.5	255.0	245.0	465.0	13.0	11.0
94	2	11/07/94	BP MS	MS BP	11.0	11.0	8.0	8.4	27.7	29.1	86.18	91.33	8.3	7.5	14	3	42.5	75.0	225.0	425.0	9.0	12.0
95	2	04/18/95	BP	BP JP	8.0	8.0	10.5	10.4	21.7	22.3	101.66	101.09	7.8	7.8	0	0	128.5	131.0	215.0	310.0	10.0	11.0
95	2	05/01/95	JP BP	JP BP	10.0	9.5	10.0	9.7	23.6	26.1	102.60	99.99	8.0	7.8	2	0	120.0	185.0	220.0	430.0	7.0	9.0
95	2	05/15/95	JP BP	JP BP	8.0	6.0	8.6	8.5	25.2	26.4	85.20	81.00	7.8	7.8	2	0	105.0	145.0	220.0	455.0	8.0	6.0
95	2	05/30/95	BP JJ	AM JJ	16.0	15.0	7.0	7.9	25.1	25.6	82.33	91.34	7.8	7.7	2	4	122.5	135.0	230.0	420.0	20.0	27.0
95	2	06/13/95	WP LP	WP	17.0	16.0	6.5	7.4	26.4	27.7	78.62	88.46	7.6	7.8	5	1	105.0	152.5	230.0	445.0	20.0	17.0
95	2	06/27/95	WP LP	JB WP	21.0	22.0	7.1	8.4	27.4	28.5	93.23	113.08	8.0	8.0	2	0	97.5	140.0	220.0	415.0	17.0	18.0
95	2	07/12/95	WP LP	WP LP	19.0	18.0	7.7	7.8	29.5	29.5	98.67	98.07	7.8	7.9	4	2	105.0	170.0	225.0	445.0	18.0	23.0
95	2	07/27/95	WP LP	JAM ASR	24.0	23.5	6.5	7.2	29.6	30.2	91.27	100.57	7.8	7.2	0	2	135.0	150.0	230.0	425.0	23.0	30.0
95	2	08/10/95	WP LP	LP WP	23.0	21.0	6.9	7.1	28.6	29.8	94.63	94.60	7.6	7.8	0	0	127.5	192.5	215.0	455.0	20.0	28.0
95	2	08/28/95	LP WP	LP WP	19.0	19.0	7.0	7.7	30.8	30.3	90.43	99.17	7.9	7.9	NV	NV	163.0	170.0	240.0	440.0	19.0	21.0
95	2	09/11/95	WP LP	LP WP	16.5	16.5	7.0	7.2	31.6	31.2	86.63	88.87	7.8	7.8	0	0	145.0	200.0	215.0	455.0	14.5	21.0
95	2	09/26/95	LP WP	LP WP	15.0	15.0	7.3	7.8	31.0	31.8	87.36	93.83	7.9	8.0	7	4	185.0	215.0	245.0	460.0	19.0	15.0
95	2	10/10/95	BP JJ	BP LP	13.0	15.0	7.3	8.1	31.1	30.4	83.91	96.56	7.9	7.8	2	2	115.0	190.0	140.0	455.0	11.0	17.0
95	2	10/26/95	LP ASR	LP	12.0	12.0	7.8	7.8	26.5	28.0	85.19	86.03	8.0	7.8	8	20	165.0	150.0	230.0	475.0	13.0	14.0
95	2	11/09/95	LP, WP	LP WP	7.0	7.5	9.2	9.2	18.6	22.2	85.27	88.32	7.6	7.7	0	27	133.0	160.0	260.0	460.0	2.0	1.0
96	2	04/18/96	LP GV	LP GV	6	7	11	11.2	10.5	11.3	94.58	99.17	7.6	7.6	2	1	67.5	95.0	235.0	460.0	11	14
96	2	05/06/96	GV LP RB E	GV LP	10	10	9.3	8.8	16.8	18.6	91.4	87.46	7.4	7.6	1	5	107.5	145.0	225.0	435.0	4	12
96	2	05/20/96	LP GV	LP GV	14	14	8.2	8.7	15.3	18.6	87.2	94.36	7.4	7.7	2	1	117.5	192.5	255.0	455.0	25	33
96	2	06/03/96	GV JJ	JJ GV	17	16	6.7	6.9	20.6	23.2	78.22	80.21	7.6	7.6	7	2	85	85.0	210.0	570.0	24.5	16
96	2	06/17/96	LP	LP JJ JJ	20.5	19	7.1	8	31.3	26.9	94.61	100.88	7.8	8.1	240	40	142.5	182.5	235.0	420.0	22	26
96	2	07/01/96	LP GV	LP GV	18	17.5	7	7.6	27.5	29.4	86.92	94.57	7.8	7.7	6	3	107.5	125.0	215.0	450.0	18	27
96	2	07/15/96	LP GV	LP GV	21	21	6.6	7.2	22.2	23.6	84.02	92.42	7.6	*	3	0	112.5	127.5	245.0	330.0	19	25
96	2	07/30/96	GV EB	EB GV	20	18	6.9	7.5	23.9	26.8	87.08	92.72	7.6	7.8	4	2	100.0	25.0	200.0	440.0	17.5	22
96	2	08/14/96	LP GV	GV	20	20	6.4	6.8	27.3	28.9	82.45	88.46	8.1	8	4	1	135.0	167.5	235.0	315.0	23	27
96	2	08/29/96	GV WP LP	GV WP	20	19	6.1	7.2	29.8	30.5	79.8	92.84	8.2	7.7	0	0	115.0	165.0	220.0	385.0	23	29
96	2	09/16/96	GV LP	JP GV	18	18	6.7	7.5	30.7	30.2	84.87	94.71	7.8	7.7	0	0	178.0	212.0	265.0	455.0	15	18
96	2	09/30/96	JP GV	GV LP	15	15	6.69	7.7	28.5	30.7	78.78	91.97	7.6	7.7	0	21	165.0	238.0	225.0	450.0	11	18
96	2	10/15/96	LP GV	LP GV	10	12	8.6	8	27.7	29.3	90.63	88.99	7.9	7.8	9	13	70.0	190.0	225.0	340.0	5	10
96	2	10/29/96	GV LP	LP SH WP	10	10.5	8.4	8.5	9.5	15.5	78.99	83.81	7.1	7.5	8	10.5	50.0	75.0	250.0	460.0	8.0	10.5
96	2	11/06/96	LP	AR	6	9	9.6	2.7	13.1	18.3	83.88	26.18	7.6	7.6	7	9	115.0	*	265.0	*	7.0	9.0

Site 2 - JEL

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L °C	WTEMP-H °C	DO-L ppm	DO-H ppm	SAL-L ppt	SAL-H ppt	SAT-L %	SAT-H %	pH-L	pH-H	FECAL-L CFU/100ml	FECAL-H CFU/100ml	LP-L cm	LP-H cm	DEPTH-L cm	DEPTH-H cm	ATEMP-L °C	ATEMP-H °C
97	2	04/23/97	MB, EB, CB, RB	MB, EB, CB, RB	8	9	11.5	11.4	6	9.4	101.05	104.67	7.4	7.4	7	5	103.0	108.0	230.0	435.0	11.0	15.0
97	2	05/06/97	MB, EB, CB, RB	CB, RB	10	10	10.5	11.6	14.8	18.6	101.93	115.29	7.4	7.5	6	*	52.5	107.5	210.0	340.0	12.0	11.0
97	2	05/22/97	CB, EB	JJ, SJ, JJ	11.0	12.0	9.9	9.2	13.6	22.6	97.60	98.01	7.5	7.6	3	3	80.0	132.0	190.0	440.0	11.0	22.0
97	2	06/05/97	MB, EB, RB, CB	RB, EB	14.0	14.0	8.9	9.3	24.5	26.7	100.08	106.04	7.8	7.8	*	*	107.5	185.0	165.0	430.0	14.0	15.0
97	2	06/23/97	MB, EB, CB	MB, EB	21.0	19.0	8.2	8.7	27.1	28.9	107.48	111.07	7.7	7.9	*	*	85.0	50.0	190.0	375.0	24.0	27.0
97	2	07/07/97	MB, EB, AR	MB, EB	21.0	19.0	7.9	8.7	29.1	30.2	104.81	111.97	7.8	7.8	0	1	95.0	155.0	200.0	395.0	25.0	28.0
97	2	07/21/97	MB, EB	EB, MB, CB	20.0	19.0	7.9	9.3	26.6	26.9	101.31	117.28	7.8	7.7	1	6	95.0	50.0	195.0	420.0	19.0	19.0
97	2	08/04/97	EB, MB, CB, RB	RB, MB, EB	21.0	20.0	8.1	8.7	29.6	30.2	107.80	114.09	7.8	7.8	0	2	150.0	183.0	165.0	405.0	19.0	21.0
97	2	08/19/97	EB, EB, MB, CB	RB, CB	20.5	19.0	7.4	7.6	30.0	29.8	97.81	97.57	7.8	7.8	2	1	33.0	253.0	200.0	405.0	18.0	23.0
97	2	09/03/97	EB, MB, CB	EB, MB, CB	20.0	19.0	7.5	7.8	29.2	29.5	97.75	99.95	7.6	7.8	1	0	205.0	298.0	205.0	410.0	17.6	22.0
97	2	09/18/97	CB, MB, EB	CB, MB, EB	19.0	18.0	8.1	7.4	28.8	29.5	103.35	93.04	7.9	7.8	*	*	180.0	225.0	205.0	470.0	20.0	28.0
97	2	10/02/97	MB, EB, CB	EB, MB, CB	12.0	13.0	8.5	8.6	30.4	30.6	95.24	98.53	7.8	7.8	1	2	185.0	350.0	225.0	410.0	8.0	15.0
97	2	10/17/97	EB, CB, MB	CB, BM	11.5	13.0	9.3	8.7	30.2	31.4	102.95	99.60	7.8	7.7	6	1	210.0	297.5	210.0	450.0	7.0	15.0
97	2	11/03/97	EB, MB, CB	EB, MB, CB	10.0	10.0	9.1	8.9	27.1	27.1	95.49	93.39	7.6	7.8	4100	TNTC	105.0	192.5	240.0	450.0	12.0	15.0
98	2	05/12/98	EB,MB,CB	MB,CB	11.0	12.0	9.5	9.0	9.7	14.3	91.51	91.08	7.3	7.4	24	14	60.0	95.0	260.0	445.0	12.0	13.5
98	2	06/10/98	CB,EB,MB,RB	CB,RB,	16.0	16.0	8.9	9.1	23.5	25.6	103.65	107.36	7.8	7.8	2	0	153.0	188.0	210.0	405.0	18.5	23.0
98	2	07/09/98	MB,JJ,JJ	MB,EB,JJ	20.0	20.0	6.3	6.8	10.1	19.6	73.46	83.68	7.1	7.3	0	0	165.0	138.0	230.0	420.0	18.0	25.0
98	2	08/10/98	MB,CB	MB,CB	22.5	21.0	6.7	8.8	29.5	30.4	91.56	117.69	7.6	7.5	3	0	120.0	140.0	200.0	420.0	26.0	29.0
98	2	09/09/98	PS,CC	PS,JF	18.0	16.0	6.6	7.4	29.9	30.7	83.19	90.14	7.7	7.6	4	2	190.0	207.5	245.0	485.0	19.0	16.0
98	2	10/07/98	PS, BT	PS	11.0	11.0	8.1	8.8	29.4	31.0	88.22	96.87	7.8	7.5	1	0	190.0	242.5	220.0	465.0	2.0	14.0
98	2	11/05/98	PS	PS	6.5	8.0	8.6	8.8	26.3	29.2	82.86	89.53	6.9	7.4	2	0	130.0	207.5	200.0	485.0	5.0	10.0
99	2	04/29/99	EB, CB, MB	CB, EB, MB	9.5	9.5	9.8	9.8	24.8	26.1	100.16	101.05	7.9	7.8	4	1	30.0	205.0	220.0	425.0	10.0	16.0
99	2	05/17/99	EB, MB, CB	EB, MB, CB	14.5	14.0	8.0	9.3	25.9	27.2	91.72	106.41	7.6	7.7	4	1	120.0	180.0	190.0	430.0	16.0	19.0
99	2	06/15/99	EB, MB, CB	EB, MB, CB	20.0	19.0	6.7	7.4	28.9	29.6	87.16	94.86	7.4	7.4	2	0	112.5	140.0	215.0	410.0	23.0	22.0
99	2	07/13/99	CB, RS	CB, CP	19.0	18.0	7.1	7.3	31.2	30.8	91.96	92.53	7.4	7.8	0	0	135.0	205.0	190.0	430.0	15.0	20.0
99	2	08/12/99	CB, EB	CB, EB	19.0	19.0	7.5	7.8	24.3	31.2	93.10	101.02	7.7	7.9	0	0	152.5	257.5	210.0	435.0	21.0	22.0
99	2	09/13/99	CB,EB,MB	CB,MB,EB	21.0	19.5	7.1	7.7	30.2	30.3	94.84	100.06	7.8	7.1	10	6	180.0	225.0	215.0	435.0	22.0	22.0
99	2	10/12/99	MB, EB, CB	MB,EB,CB	12.0	12.0	9.0	8.7	26.5	28.1	98.27	96.01	7.6	7.6	4	5	210.0	310.0	210.0	430.0	9.0	15.0
99	2	11/09/99	EB,MB,CB	EB,MB,CB	6.0	7.5	9.6	9.7	23.1	25.3	89.47	95.01	7.6	7.4	8	8	180.0	210.0	225.0	440.0	3.0	10.0
00	2	04/19/00	EB, MB	EB, MB	8.50	8.00	10.30	10.60	19.60	22.10	99.53	102.90	8.60	8.30	3.00	1.00	92.50	125.00	220.00	445.00	6.00	7.50
00	2	05/18/00	EB,MB,RB	MB, EB, RB	14.00	11.00	8.30	8.70	19.75	21.20	90.66	89.88	7.60	7.50	3.00	3.00	95.00	75.00	220.00	430.00	16.00	21.00
00	2	06/19/00	JJ, JJ, D D-P	JJ, JJ, DD-P	20.00	18.00	6.50	6.50	23.30	25.00	81.74	79.48	7.20	7.10	0.00	1.00	120.00	170.00	230.00	505.00	19.00	22.00
00	2	07/17/00	DD-P, BD	DD-P, BD	20.00	19.00	6.50	7.10	29.50	28.85	84.87	90.62	7.80	7.80	1.00	18.00	90.00	122.50	240.00	425.00	16.50	19.00
00	2	08/15/00	EB,MB	EB, MB	20.00	20.00	6.90	6.60	25.90	27.20	88.14	84.97	7.60	7.60	13.00	2.00	125.00	142.50	230.00	430.00	19.00	21.50
00	2	09/14/00	EB,MB	EB, MB	19.00	19.00	8.60	8.60	29.50	30.20	110.20	110.69	7.70	7.90	0.00	0.00	75.00	275.00	220.00	420.00	16.00	23.00
00	2	10/16/00	EB,MB	EB, MB	12.00	11.00	8.60	8.50	28.90	28.90	95.41	92.30	7.60	7.70	4.00	2.00	175.00	237.00	210.00	440.00	7.00	5.00
00	2	11/13/00	EB,MB	EB, MB	9.00	10.00	8.70	8.90	23.50	26.10	87.21	92.81	7.50	7.80	12.00	31.00	200.00	205.00	230.00	470.00	6.00	10.00
01	2	04/24/01	EB,MB	EB, MB	12.0	12.0	9.8	9.9	11.0	15.2	97.28	100.76	7.1	7.8	0	1	155.0	172.5	225.0	440.0	19.0	31.0
01	2	05/23/01	EB,MB	EB, MB	14.5	14.0	8.0	8.0	25.6	26.6	91.54	91.16	7.5	7.8	0	3	95.0	150.0	205.0	410.0	15.5	18.0
01	2	06/24/01	EB, RB	EB, RB	22.0	20.0	7.1	7.2	21.8	23.9	91.86	90.87	7.4	7.5	6	5	85.0	125.0	190.0	395.0	20.0	18.5
01	2	07/23/01	EB, MB	EB, MB	22.0	20.0	7.7	7.9	28.2	28.9	103.47	102.77	7.6	7.8			125.0	170.0	200.0	420.0	28.0	30.0
01	2	08/20/01	EB, MB	EB, MB	21.0	20.0	6.9	7.8	30.3	31.2	92.22	102.92	7.6	7.8	13	2	120.0	175.0	205.0	430.0	22.0	24.0
01	2	09/18/01	MB, CB	MB, CB	17.0	17.0	7.9	8.6	31.6	31.9	98.73	107.69	7.7	7.7	2	0	145.0	205.0	200.0	450.0	17.0	25.0
01	2	10/17/01	MB, CB	MB, CB	13.0	13.0	8.1	8.8	30.6	30.6	92.80	100.82	7.7	7.7	17	7	195.0	280.0	270.0	460.0	12.0	14.0
01	2	11/01/01	MB, CB	MB, CB	9.0	10.0	9.4	9.5	29.9	30.0	98.33	101.67	7.6	7.8	6	1	210.0	385.0	210.0	415.0	8.0	12.5
02	2	04/29/02	MB, LC	MB, LC	8.0	8.0	9.3	9.3	22.2	24.0	90.34	91.41	7.4	7.7	17	1	95.0	140.0	220.0	400.0	4.0	7.0
02	2	05/28/02	MB, LC	MB, LC	15.0	15.0	7.9	8.3	21.6	22.8	89.10	94.31	7.5	8.3	0	0	115.0	162.5	193.0	355.0	14.0	19.0
02	2	06/25/02		LC	*	18.0	*	6.4	*	22.4	*	77.03		7.6		3	*	140.0	*	410.0	*	25.0
02	2	07/25/02	MB, LC	MB, LC	21.0	21.0	7.6	9.2	29.6	30.2	101.11	122.89	7.6	7.8	1	1	95.0	160.0	170.0	370.0	21.0	22.0
02	2	08/26/02	MB, LC	MB, LC	21.0	20.0	*	6.8	31.7	31.5	*	89.90	7.7	7.7	1	2	180.0	207.5	180.0	355.0	27.0	26.0
02	2	09/23/02	MB	MB	20.0	20.0	7.9	9.0	31.2	31.9	104.24	119.28	7.5	7.4	6	6	180.0	285.0	225.0	405.0	22.0	21.0
02	2	10/22/02	MB	MB	9.0	11.0	9.7	9.3	29.9	30.2	101.46	101.86	7.5	7.7	8	1	195.0	215.0	215.0	355.0	2.0	11.0
02	2	11/06/02	MB, LC	MB, LC	7.0	8.0	9.7	9.2	28.3	29.9	95.87	94.08	7.3	7.5	2	3	220.0	210.0	220.0	440.0	7.5	7.0

SITE 3 - Lamprey River

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L °C	WTEMP-H °C	DO-L ppm	DO-H ppm	SAL-L ppt	SAL-H ppt	SAT-L %	SAT-H %	pH-L	pH-H	FECAL-L CFU/100ml	FECAL-H CFU/100ml	LP-L cm	LP-H cm	DEPTH-L cm	DEPTH-H CM	ATEMP-L °C	ATEMP-H °C
90	3	04/08/90			*	5.5	*	12.2	*	3.4	*	99.23	*	7.2	*	*	*	125.0	*	*	*	5.0
90	3	04/25/90			11.5	12.0	10.8	11.0	2.4	3.3	100.89	104.47	7.1	7.6	*	*	124.0	125.0	*	*	10.0	11.0
90	3	05/09/90			11.0	12.5	10.4	10.2	1.8	2.0	95.73	97.24	7.2	7.3	*	*	110.0	115.0	*	*	8.0	16.0
90	3	05/24/90			11.0	12.0	10.9	10.9	1.8	1.8	100.34	102.65	8.1	7.6	*	*	165.0	155.0	*	*	8.5	16.0
90	3	06/08/90			17.5	19.0	8.4	8.0	6.8	4.5	91.51	88.72	7.2	7.3	*	*	85.0	90.0	*	*	14.5	23.0
90	3	06/25/90			20.0	20.0	7.6	7.8	8.0	6.0	87.61	88.94	7.3	7.2	*	*	85.0	80.0	*	*	19.0	20.0
90	3	07/07/90			21.0	23.0	7.8	7.8	9.8	7.9	92.57	95.15	7.2	7.1	*	*	70.0	65.0	*	*	18.0	28.0
90	3	07/21/90			24.0	27.0	6.4	7.2	4.6	16.1	78.17	98.64	7.2	7.5	*	*	85.0	75.0	*	*	26.0	32.0
90	3	08/06/90			24.0	24.0	6.9	7.4	11.9	19.2	87.61	97.82	7.3	7.6	*	*	115.0	90.0	*	*	23.5	22.0
90	3	08/20/90			20.8	23.5	7.0	7.7	10.1	5.5	81.82	93.00	7.2	7.1	*	*	100.0	105.0	*	*	14.0	20.0
90	3	09/04/90			20.0	22.5	7.4	8.0	6.7	4.6	84.70	95.00	7.0	7.1	*	*	110.0	100.0	*	*	14.0	22.5
90	3	09/17/90			17.0	18.0	7.2	7.8	10.6	9.6	79.31	87.19	7.1	7.4	*	*	75.0	100.0	*	*	10.0	14.5
90	3	10/04/90			13.5	15.5	8.1	8.6	15.7	9.8	85.42	91.42	7.6	7.2	*	*	70.0	105.0	*	*	4.0	14.0
90	3	10/18/90			13.5	15.0	10.0	9.8	2.1	1.7	97.53	98.54	7.0	7.0	*	*	65.0	85.0	*	*	2.5	20.0
90	3	11/02/90			6.0	7.5	12.0	12.2	1.4	2.2	97.71	103.57	7.3	7.0	*	*	90.0	100.0	*	*	0.0	14.0
91	3	04/13/91	DB RA VE	DB RA VE	9.0	10.0	10.7	10.7	4.1	4.3	95.24	97.61	7.5	7.5	*	*	*	95.0	*	*	0.5	10.5
91	3	04/27/91	DB BA VE SW	DB BA VE SW	13.0	15.0	10.0	10.0	1.4	2.8	96.09	101.16	7.2	7.2	*	*	118.0	115.0	*	*	15.0	25.0
91	3	05/14/91	DB MA	DB MA	*	17.5	8.4	8.6	4.1	3.5	*	92.01	7.0	7.0	*	*	70.0	100.0	*	*	17.0	16.0
91	3	05/27/91	DM BA VE	DM BA VE	18.0	21.5	6.8	7.6	8.2	5.2	75.42	88.83	6.9	6.9	*	*	65.0	85.0	*	*	15.0	21.0
91	3	06/12/91	DB MA	DB MA	21.0	25.0	6.8	7.7	13.1	7.9	82.19	97.45	7.1	7.1	*	*	50.0	60.0	*	*	22.0	29.5
91	3	06/26/91	DB RA VE	DB RA VE	21.0	25.0	7.4	9.0	11.9	15.2	88.84	118.46	7.4	7.4	*	*	90.0	80.0	*	*	22.0	31.0
91	3	07/10/91	DB MA VE	DB MA VE	19.0	22.0	7.0	7.2	20.4	18.8	84.89	91.56	7.6	7.6	*	*	80.0	70.0	*	*	19.0	28.0
91	3	07/25/91	DB RA	DB RA	23.0	26.5	6.6	10.3	18.8	20.3	85.49	143.16	7.4	7.4	*	*	95.0	80.0	*	*	21.0	29.0
91	3	08/09/91	DB MA	DB MA	22.0	23.0	6.2	6.7	25.0	28.5	81.74	91.83	7.4	7.4	*	*	75.0	85.0	*	*	20.0	23.0
91	3	08/25/91	RA DB MA	RA DB MA	19.5	21.5	8.4	8.2	2.0	2.0	92.83	94.24	5.9	5.9	*	*	80.0	120.0	*	*	17.0	22.0
91	3	09/08/91	RA VE	RA VE	18.0	22.0	6.3	7.8	10.8	7.0	70.89	92.94	7.2	7.2	*	*	70.0	100.0	*	*	16.0	26.0
91	3	09/22/91	RA	RA	15.0	17.0	8.0	8.8	8.9	5.4	83.73	94.17	6.7	6.7	*	*	80.0	130.0	*	*	2.0	16.0
91	3	10/06/91	RA	RA	15.0	15.0	9.0	9.2	5.6	2.4	92.46	92.86	7.2	7.2	*	*	80.0	130.0	*	*	16.0	18.0
91	3	10/23/91	DB	DB	9.5	10.0	11.7	11.2	3.0	3.0	104.70	101.42	7.2	7.2	*	*	85.0	90.0	*	*	8.0	16.0
91	3	11/05/91	DB	DB MA	8.0	8.0	9.4	10.8	6.8	2.9	82.99	93.20	7.2	7.2	*	*	110.0	110.0	*	*	0.0	7.0
92	3	04/17/92		DB NE	*	6.5	*	12.2	*	3.4	*	101.76	*	7.0	*	*	*	90.0	*	*	*	8.0
92	3	05/02/92	DB RA	DB RA	13.0	14.0	9.7	10.1	3.4	3.7	94.25	100.48	6.9	7.1	*	*	bev	110.0	*	*	12.0	16.0
92	3	05/18/92	DB MA	DB MA	15.5	17.5	8.4	8.7	5.8	3.7	87.30	93.18	7.1	7.1	*	*	*	120.0	*	*	12.0	17.5
92	3	05/31/92	RA MA	RA MA	17.5	18.0	6.2	8.3	12.8	5.6	69.85	90.75	7.4	7.4	*	*	35.0	85.0	*	*	13.0	17.0
92	3	06/14/92	VE RA DB	VE RA DB	21.0	24.0	6.9	7.7	6.3	4.8	80.35	94.14	7.0	7.0	*	*	80.0	105.0	*	*	21.0	31.0
92	3	06/29/92	MA VE	MA	20.0	24.0	7.6	6.9	14.0	7.9	90.57	85.75	7.3	7.3	*	*	55.0	80.0	*	*	18.5	24.5
92	3	07/13/92	MA VE	VE CN	21.0	24.0	7.1	7.1	9.8	8.0	84.26	88.28	7.2	7.3	358	359	70.0	75.0	*	*	24.0	30.0
92	3	07/28/92	MA RA SM	MA RA	20.0	22.5	6.8	7.8	10.1	9.0	79.29	94.82	7.4	7.5	830	890	90.0	90.0	*	*	18.0	24.0
92	3	08/11/92	MA DB	MA DB	20.0	23.0	6.7	7.8	10.1	7.2	78.13	94.80	7.0	7.1	300	200	95.0	95.0	*	*	18.0	27.0
92	3	08/26/92	MA DB	MA DB	21.0	24.0	7.2	7.6	4.3	5.9	82.96	93.46	7.5	7.5	1020	360	90.0	100.0	*	*	18.0	28.0
92	3	09/10/92	DB MA	DB MA	19.0	22.0	7.4	8.2	9.8	5.4	84.47	96.87	7.1	7.8	3100	2240	80.0	125.0	*	*	23.0	28.0
92	3	09/25/92	DB MA	DB MA RA	14.5	16.5	8.0	7.6	19.7	23.0	88.27	89.12	7.6	7.8	NTVD	NTVD	105.0	105.0	*	*	2.0	12.0
92	3	10/10/92	RA MA	RA MA	14.0	14.5	8.8	9.0	8.1	12.8	89.74	95.31	7.4	7.7	3840	2160	45.0	90.0	*	*	16.0	18.0
92	3	10/24/92	RA MA VE	RA MA	9.0	10.0	10.0	10.7	9.4	4.5	91.82	97.73	7.5	7.3	50	50	70.0	125.0	*	*	7.0	15.0
92	3	11/09/92		MA RA	*	4.5	*	12.6	*	1.4	*	98.72	*	7.2	*	90	*	110.0	*	*	*	2.0
93	3	04/21/93	MA DB BC SA	DB BC	12.5	13.5	10.3	10.7	*	*	*	*	7.4	7.7	*	30	*	130.0	*	130.0	17.0	22.0
93	3	05/06/93	MA BC	MA BC	16.5	19.5	*	8.5	0.0	1.1	*	93.49	7.4	7.2	*	90	*	45.0	*	45.0	18.0	27.0
93	3	05/20/93	DB MA BC	DB CC BC	15.5	16.5	8.6	8.8	5.0	2.5	88.99	91.72	7.1	6.9	*	1000	*	100.0	*	115.0	19.0	15.0
93	3	06/03/93	MA BC	MA BC	15.0	17.5	7.8	8.5	8.6	3.0	81.50	90.70	6.8	7.0	230	100	45.0	65.0	*	320.0	14.0	22.0
93	3	06/23/93	MA BC	JJ JJ	21.5	23.5	6.3	7.8	15.8	12.3	78.03	98.34	7.3	7.7	270	330	50.0	50.0	125.0	370.0	22.0	25.0
93	3	07/06/93	JJ JJ DB	MA DB BC	24.5	29.5	7.2	9.8	15.1	15.5	93.86	139.66	7.4	8.2	100	100	15.0	75.0	135.0	235.0	28.0	30.0
93	3	07/22/93	DB CC		23.5	22.5	6.4	7.2	9.4	2.5	79.43	84.57	7.6	7.9	200	50	75.0	95.0	85.0	380.0	24.0	25.0
93	3	08/03/93	DB BC	DB	24.0	27.5	7.4	10.8	13.7	18.8	94.88	151.46	7.3	7.8	470	100	110.0	100.0	135.0	220.0	23.0	31.5
93	3	08/19/93	DB BC	BC DB MA	22.0	24.5	5.2	6.6	20.9	23.2	66.93	90.05	7.1	7.3	120	90	85.0	100.0	120.0	380.0	18.0	25.0
93	3	09/02/93	DB BC	DB BC	22.5	24.5	5.0	7.0	23.7	28.4	66.01	98.45	7.1	7.6	*	*	110.0	120.0	115.0	350.0	21.0	28.0
93	3	09/20/93	BC AR	DB BC	14.5	16.5	6.6	5.6	19.8	22.2	72.86	65.35	7.4	7.3	*	*	120.0	135.0	115.0	280.0	14.0	15.0
93	3	10/04/93	DB BC	MA BC MA	14.0	16.0	9.0	8.7	6.0	6.8	90.70	92.11	7.1	7.1	540	180	150.0	125.0	150.0	360.0	16.0	22.0
93	3	10/18/93	DB	DB BC	10.5	13.0	9.4	9.8	8.0	6.9	88.62	97.12	6.9	7.0	*	*	115.0	100.0	120.0	280.0	12.0	18.0
93	3	11/10/93	MA DB BC SA	DB	5.5	5.5	11.7	11.9	6.3	2.5	96.83	96.28	7.0	7.3	*	*	110.0	125.0	120.0	240.0	12.0	-2.0
94	3	05/10/94	DB MA	DB MA	*	14.5	*	10.8	*	3.7	*	108.61	*	7.3	*	*	*	*	*	*	*	19.0
94	3	05/25/94	DB MA	DB MA	16.5	17.5	4.6	8.7	4.1	1.6	48.37	92.13	7.1	7.0	230	130	75.0	110.0	140.0	185.0	12.0	16.0
94	3	06/09/94	DB MA	DB MA	19.0	23.0	7.0	7.9	23.0	8.3	86.21	96.58	7.4	7.4	330	250	87.0	97.5	110.0	215.0	18.0	24.0
94	3	06/23/94	DB MA	DB MA	21.5	25.0	6.1	7.2	18.4	15.6	76.67	94.97	7.5	7.1	240	300	77.5	67.5	105.0	225.0	23.0	28.5
94	3	07/11/94	MA MA RA	MA MA RA	23.5	27.0	6.6	7.6	16.9	8.5	85.34	100.00	7.7	7.2	180	40	108.0	195.0	115.0	340.0	25.0	29.0
94	3	07/25/94	DB MA MA	DB MA	24.5	28.5	5.6	7.8	20.6	23.5	75.28	114.19	7.3	7.0	6400	20	92.5	87.5	110	255.0	24	*
94	3	08/09/94	DB MA MA SA	DB MA	18	26	*	*	17	25.3	*	*	7.8	8.3	310	30	*	*	*	*	20	25
94	3	08/22/94	DB RA	DB RA	21.0	20.5	6.5	7.8	13.0	7.5	78.52	90.54	7.3	7.4	*	160	92.5	113.0	100.0	215.0	19.0	17.0
94	3	09/07/94	DM MA	DB MA	16.0	18.0	7.8	8.4	18.3	24.0	88.03	102.09	7.9	7.4	100	40	120.0	90.0	120.0	270.0	15.0	*
94	3	09/21/94	MA DB	MA DB SA	16.5	20.5	8.3	10.7	17.1	20.9	93.95	133.92	7.6	8.4	20	10	90.0	100.0	100.0	335.0	16.5	26.0
94	3	10/06/94	DB MA	MA AR MA SA	10.5	14.0	8.3	9.6	9.6	7.5	80.89	97.57	7.4	6.9	*	*	65.0	80.0	90.0	365.0	8.0	14.0

SITE 3 - Lamprey River

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L °C	WTEMP-H °C	DO-L ppm	DO-H ppm	SAL-L ppt	SAL-H ppt	SAT-L %	SAT-H %	pH-L	pH-H	FECAL-L CFU/100ml	FECAL-H CFU/100ml	LP-L cm	LP-H cm	DEPTH-L cm	DEPTH-H CM	ATEMP-L °C	ATEMP-H °C
94	3	10/20/94	DB MA	DB MA MA SA	11.0	12.0	10.5	10.4	7.0	4.6	99.56	99.50	7.6	7.4	39	55	102.5	106.5	120.0	106.5	13.0	15.0
94	3	11/07/94	DB MA	DB MA	10.5	11.5	8.2	9.3	14.8	12.3	80.02	91.99	7.1	7.0	59	*	42.5	57.5	85.0	310.0	8.0	11.5
95	3	04/18/95	*	*	*	*	*	*	*	*	*	*	*	*	*	28	*	*	*	*	*	*
95	3	05/01/95	*	DB MA MA SA	*	12.5	*	10.8	*	2.7	*	103.36	*	7.1	*	*	*	55.0	*	55.0	*	12.0
95	3	05/15/95	*	DB	*	12.0	*	10.2	*	3.3	*	96.87	*	7.3	*	0	*	87.5	*	235.0	*	6.0
95	3	05/30/95	*	DB MA	*	18.0	*	8.5	*	4.8	*	92.53	*	7.4	*	240	*	82.5	*	210.0	*	24.0
95	3	06/13/95	DB MA	DB MA	20.0	21.0	6.4	7.6	13.4	6.3	76.01	88.50	7.4	7.1	0	400	77.5	82.5	105.0	360.0	17.0	*
95	3	06/27/95	DB	MA DB MA SA	25.0	21.0	7.0	8.6	12.4	18.6	90.74	107.22	7.1	7.6	700	120	52.5	67.5	140.0	325.0	17.0	20.0
95	3	07/12/95	DB MA	DB	20.5	25.5	5.7	7.2	21.5	25.8	71.59	101.48	7.1	7.1	200	17	53.0	62.5	85.0	235.0	17.0	28.0
95	3	07/27/95	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
95	3	08/10/95	DEB	DB	22.5	26.0	6.8	8.6	14.1	7.9	85.00	110.82	7.4	7.1	230	200	32.5	107.5	90.0	335.0	18.0	30.0
95	3	08/28/95	DB	DB	19.0	22.0	6.0	7.6	22.4	28.4	73.61	102.25	7.1	7.6	NV	NV	97.5	82.5	110.0	350.0	19.0	23.0
95	3	09/11/95	MA DB	MA DB	17.0	19.0	6.3	8.8	27.1	25.6	76.53	110.10	7.4	7.4	90	10	72.5	82.5	100.0	350.0	13.0	20.0
95	3	09/26/95	DB	MA	15.0	14.5	6.4	7.0	23.3	29.6	72.94	82.17	7.7	7.6	290	10	87.5	97.5	100.0	375.0	15.0	13.0
95	3	10/10/95	DB MA	DB MA	12.5	16.0	8.0	9.2	11.7	8.6	80.62	98.16	7.0	6.9	100	30	95.5	92.5	120.0	350.0	10.0	18.0
95	3	10/26/95	DB MA	DB MA	11.0	12.0	9.6	10.3	1.9	1.3	88.42	96.73	6.8	6.9	130	30	62.5	102.5	110.0	380.0	7.0	14.0
95	3	11/09/95	DB	DB, AM	6.0	4.0	13.5	13.0	0.2	2.2	109.16	101.03	7.6	6.9	0	10	97.5	*	145.0	*	0.0	0.0
96	3	04/18/96	DB MA	DB MA	6.0	7.0	12.3	12.8	0.2	0.2	99.5	106.1	7.2	7.1	60	*	*	97.5	*	*	5.0	12.5
96	3	05/06/96	DB MA	DB	12.5	12.5	10.6	10.7	0.6	1.4	100.3	101.7	7.8	7.3	140	20	127.0	152.5	127.0	325.0	3.0	7.0
96	3	05/20/96	DB MA	DB	17.5	18	9.7	9.6	2.8	2.2	103.39	103.05	7.7	7.3	110	80	152.5	152.5	165	330	22	32
96	3	06/03/96	DB	MA MA SA	18	17.5	8.9	4.5	3.55	2.45	96.23	47.87	7.1	7	90	*	47.5	87.5	165	360	18	16
96	3	06/17/96	MA DB	DB MA MO S	23	25	7.6	7.9	10.9	3.4	94.22	97.67	7.1	7	198	190	*	103	*	335	21	25.5
96	3	07/01/96	MA MA MR E	*	20	*	8.5	*	14.7	*	*	101.7	*	*	192	114	68.5	*	112.0	*	20	*
96	3	07/15/96	DB MA	MA MA	21	22	8.7	7.2	1.1	1.2	98.57	83.21	7	7.1	370	490	47.5	92.5	155.0	*	19	24
96	3	07/30/96	MA MA DB	DB MA	21.5	23	8.9	7.2	11.3	4.8	107.51	86.4	7.1	7.2	90	200	63.0	67.5	105.0	330.0	20.5	20
96	3	08/14/96	DB	DB MA	21	26	7.5	8.6	11.7	12.6	89.94	113.61	7.1	7.4	410	190	77.5	82.5	90.0	340.0	18	25
96	3	08/29/96	DB	DB MA	21	25	6.3	7.4	22.9	22.2	80.53	101.28	7.4	7.5	102	18	62.5	82.5	100.0	325.0	19	28.5
96	3	09/16/96	DB MA	DB MA	18.5	19.5	6.7	8.4	18.8	21.2	79.71	103.34	7.2	*	230	68	117.0	113.0	165.0	375.0	15	18
96	3	09/30/96	DB MA	DB MA	16	17	9.6	7	15.7	11.9	106.69	77.68	7.4	7.4	86	46	67.5	117.5	130.0	365.0	15	17.5
96	3	10/15/96	DB MA	DB MA	9.5	11	9.1	9.8	13.3	10.3	86.53	94.71	6.5	6.9	48	40	62.5	82.5	120.0	350.0	4	12
96	3	10/29/96	NO DOCK	NO DOCK	*	*	*	*	*	*	*	*	*		*		*	*	*	*	*	*
96	3	11/06/96	AR	NO DOCK	7	*	12.4	*	0.2	*	102.8	*	7.1			30	*	*	*	*	7	*
97	3	04/23/97	*	DB, MA	*	11.0	*	11.5	*	1.2	*	105.5	*	7.3	*	*	*	*	*	*	*	16.0
97	3	05/06/97	NO DOCK	DB	*	12.0	*	10.4	*	1.3	*	97.7	*	7.4	*	*	*	122.5	*	150.0	*	11.0
97	3	05/22/97	DB, JT	DB, OA	13.0	15.0	9.8	9.8	3.4	2.4	95.2	98.9	7.1	7.4	*	*	97.5	82.5	110.0	320.0	12.0	17.0
97	3	06/06/97	DB, JT	DB, JT	17.0	20.0	8.3	8.4	6.7	11.4	89.5	98.7	7.4	7.6	'LE TAKEN WRONG DAY		92.5	77.5	115.0	330.0	16.0	21.0
97	3	06/23/97	DB, MA, JT	DB, MA, JT	24.5	26.0	6.6	7.5	13.4	12.1	85.2	98.8	7.6	7.6	106	122	45.0	53.0	80.0	330.0	28.0	28.0
97	3	07/07/97	DB, MA	DB, MA	27.0	27.0	7.6	9.4	16.2	17.5	104.2	129.8	7.7	7.5	74	22	63.0	68.0	105.0	320.0	26.5	28.0
97	3	07/21/97	GA, MA	GA, MA	19.5	19.0	7.1	8.8	15.0	15.0	84.3	103.4	7.4	7.1	78	30	70.0	78.0	70.0	320.0	19.5	18.5
97	3	08/04/97	DB, MA, S.	DB, MA	19.5	20.0	8.3	9.7	16.6	23.3	99.4	122.0	7.1	8.3	158	24	97.0	83.0	110.0	313.0	20.0	22.0
97	3	08/19/97	DB, MA, S	DB, MA	21.0	24.0	5.9	7.6	26.1	28.2	76.9	105.8	7.4	7.4	88	2	47.0	67.0	80.0	340.0	19.0	23.0
97	3	09/03/97	DB, MA	DB,MA	19.0	21.0	6.8	*	18.4	19.0	81.5	*	7.6	7.4	20	10	77.5	122.5	115.0	320.0	15.0	20.0
97	3	09/18/97	DB, BA	DB, MA	19.0	22.0	6.9	8.2	15.0	18.8	81.1	104.3	7.3	7.6	*	*	77.5	122.5	90.0	350.0	20.0	25.0
97	3	10/02/97	DB, MA	DB, MA, S	11.0	14.5	8.5	8.7	19.9	21.9	87.1	97.3	7.4	7.8	24	4	115.0	157.5	115.0	310.0	7.0	15.0
97	3	10/17/97	NO DOCK	*	*	14.5	*	8.8	*	23.2	*	99.2	*	7.5	*	18	*	132.5	*	300.0	6.5	18.0
97	3	11/03/97	*	DB, MA, S	*	10.0	*	10.4	*	3.8	*	94.6	*	7.4	*	TNTC	*	57.5	*	180.0	*	15.0
98	3	05/12/98	DB,MA	DB, MA	11.0	12.5	9.9	10.2	0.0	0.7	90.2	96.5	7.5	7.4	76	TNTC	107.5	148.0	140.0	370.0	11.5	15.0
98	3	06/10/98	BD, MA	DB, MA	18.0	20.5	7.6	8.2	7.0	3.0	83.7	92.9	7.3	7.7	64	100	57.0	133.0	100.0	310.0	20.0	25.0
98	3	07/09/98	DB,MA	DB,MA	20.5	23.5	7.2	7.4	2.1	3.8	81.2	89.2	7.3	7.4	16	16	117.5	117.5	120.0	325.0	19.0	26.0
98	3	08/10/98	DB, MA	DB, MA	26.0	26.5	6.4	8.5	18.0	22.9	87.1	119.9	7.7	8.3	96	14	42.5	77.5	80.0	325.0	26.0	31.0
98	3	09/09/98	DB,JT	DB,MH	19.0	19.0	6.6	7.8	23.0	23.7	81.3	96.5	7.3	8.1	52	28	97.5	97.5	105.0	370.0	19.0	12.0
98	3	10/07/98	AR, FC, KD	DB	11.0	13.0	8.4	8.4	23.9	28.1	88.3	94.7	8.1	7.9	10	0	*	122.5	*	305.0	10.0	17.0
98	3	11/05/98	DB	DB	10.0	7.0	9.0	9.2	12.4	7.9	86.1	79.8	7.5	7.9	2	2	47.5	97.5	130.0	305.0	4.0	9.0
99	3	04/29/99	NO DOCK	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
99	3	05/17/99	FC	DB	17.0	20.0	7.6	7.3	10.3	10.1	83.55	85.12	7.6	7.4	38	4	35.0	57.5	35.0	310.0	19.0	24.0
99	3	06/15/99	DB,AS,FC	DB,AS	22.0	24.5	5.6	9.6	19.5	19.5	71.50	128.25	8.0	8.2	56	10	27.5	67.5	62.0	310.0	22.0	28.0
99	3	07/13/99	DB, FC	DB	21.0	22.0	5.8	6.8	20.9	25.3	73.28	89.78	7.3	7.8	16	6	65.0	72.5	65.0	310.0	17.0	24.0
99	3	08/12/99	DB, FC	DB, AR	20.0	23.5	4.7	4.7	24.0	27.5	59.34	64.60	7.7	7.6	66	64	62.5	102.5	75.0	320.0	20.0	28.0
99	3	09/13/99	DB,FC	DB	23.0	23.0	6.4	6.9	9.0	4.9	78.51	82.83	7.3	7.4	330	250	100.0	117.5	100.0	315.0	22.0	28.0
99	3	10/12/99	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
99	3	11/09/99	*	MY, CAH, JM	*	7.0	*	11.6	*	0.9	*	96.56	*	7.1	*	12	*	100.0	*	315.0	*	10.5
00	3	04/19/00	DB, RM	DB, RM	10.00	10.00	9.40	9.20	0.00	0.00	83.69	81.91	7.40	7.40	12.00	22.00	95.00	117.50	95.00	325.00	7.00	6.00
00	3	05/18/00	DB,BA	DG.BA	15.00	17.00	7.10	9.10	3.55	1.50	72.12	95.34	7.30	7.30	38.00	46.00	67.50	92.50	95.00	310.00	18.00	22.00
00	3	06/19/00	DB, RM, AH	RM, DB, AH	20.00	21.00	7.60		5.40	1.75	86.38	0.00	7.30	7.30	48.00	46.00	67.50	107.50	95.00	295.00	16.00	23.00
00	3	07/17/00	DB, RM, AH	DB, RM, AH	20.50	21.50	7.20	7.80	8.85	4.50	84.19	90.83	7.30	7.30	64.00	40.00	67.50	87.50	100.00	305.00	17.00	19.00
00	3	08/15/00	DB, RM	DB, RM	21.00	21.50	6.30	7.20	3.00	4.40	72.09	83.80	7.10	7.10	150.00	160.00	87.50	105.00	100.00	305.00	19.00	21.00
00	3	09/14/00	DB, RM	DB, RM	17.00	23.00	7.10	9.00	16.50	21.60	80.90	118.45	7.50	7.70	78.00	10.00	90.00	132.00	90.00	305.00	15.00	22.00
00	3	10/16/00	NO DOCK	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
00	3	11/13/00	DB, AH	DB	7.50	7.50	10.30	10.10	7.40	7.40	90.15	88.40	7.20	7.20	120.00	120.00	67.50	77.50	180.00	110.00	5.00	10.00
01	3	04/24/01	DB, SR, AH	DB, SR, AH, VE	17.0	17.0	8.8	9.3	0.8	2.1	91.9	97.7	7.7	7.1	14	8	182.5	122.5	190.0	190.0	27.0	33.0
01	3	05/23/01	DB, SR, AH, VE	DB, SR, AH, VE	14.0	18.0	7.7	8.5	8.9	7.0	78.9	93.7	7.1	7.0	30	26	69.0	82.1	90.0	310.0	14.0	18.0
01	3	06/21/01	DB, VE, SR	DB, SR, AH, VE	23.0	23.0	6.7	7.7	4.2	1.6	80.2	90.9	7.0	7.0	0	94	50.0	80.0	70.0	100.0	19.0	18.0
01	3	07/23/01	DB, SR, AH	DB, SR, AH	25.5	28.0	8.2	8.0	3.6	13.3	102.4	109.8	7.4	7.4			62.5	67.5	65.0	310.0	28.0	32.0
01	3	08/20/01	DB, SR, AH, VE	DB, SR, VE	23.0	24.0	6.5	9.6	20.1	25.9	84.8	131.9	7.4	7.6	600	48	47.5	62.5	70.0	335.0	23.0	23.0
01	3	09/18/01	DB, SR, AH	DB, SR	16.0	20.0	7.1	7.2	25.3	28.5	83.6	93.4	7.4	7.4	30	0	80.0	87.5	80.0	320.0	17.0	24.0
01	3	10/17/01	SR, AH	SR, AH	13.0	14.0	8.8	9.1	11.8	7.5	89.7	92.5	7.0	6.9	390	104	90.0	125.0	90.0	125.0	12.0	14.0
01	3	11/01/01	SR, VE, AH, DB	JR, VE, AH, DB	8.0	9.5	9.8	9.8	8.7	6.8	87.5	89.6	6.9	6.9	84	10	145.0	135.0	200.0	155.0	7.0	12.0
02	3	04/29/02	AH, SR	VE, AH, SR	7.0	8.5	11.0	11.1	9.2	7.3	96.2	99.5	7.2	6.5	8	4	65.0	120.0	65.0	310.0	4.0	6.0

SITE 3 - Lamprey River

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L °C	WTEMP-H °C	DO-L ppm	DO-H ppm	SAL-L ppt	SAL-H ppt	SAT-L %	SAT-H %	pH-L	pH-H	FECAL-L CFU/100ml	FECAL-H CFU/100ml	LP-L cm	LP-H cm	DEPTH-L cm	DEPTH-H CM	ATEMP-L °C	ATEMP-H °C
02	3	05/28/02	NH, AH, SR	SR, AH	17.0	18.5	8.2	8.9	3.4	2.5	86.8	96.6	6.5	6.7	10	48	55.0	97.5	55.0	255.0	18.0	18.0
02	3	06/25/02	NH, SR	NH, SR	20.0	21.0	8.6	8.7	1.5	0.8	95.7	98.4	6.9	7.1	68	66	67.0	132.5	75.0	290.0	20.0	28.0
02	3	07/25/02	VE, SR	VE, SR	22.0	26.0	8.2	10.4	2.0	22.9	95.2	145.4	7.1	7.8	24	2	65.0	85.0	65.0	285.0	21.0	23.0
02	3	08/26/02	SR, VE, AH	SR, VE, AH	21.0	21.0	7.1	9.8	27.5	29.3	93.3	130.3	7.4	7.6	0	2	90.0	122.5	90.0	300.0	25.0	27.0
02	3	09/23/02	AH, SR	SR, AH	22.0	22.0	6.5	9.6	23.2	21.9	84.8	124.3	7.4	8.0	>600	580	62.5	107.5	100.0	290.0	22.0	23.0
02	3	10/22/02	*	SR, AH	*	10.0	*	11.5	*	8.1	*	107.3	*	6.9	*	32	*	117.5	*	170.0	*	11.0
02	3	11/06/02	*	VE, JF, BS	*	5.0	*	12.2	*	7.9	*	100.7	*	6.9	*	180	*	95.0	*	275.0	*	9.0

Site 4 - Depot Rd

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L	WTEMP-H	DO-L	DO-H	SAL-L	SAL-H	SAT-L	SAT-H	pH-L	pH-H	FECAL-L	FECAL-H	LP-L	LP-H	DEPTH-L	DEPTH-H	ATEMP-L	ATEMP-H
					°C	°C	ppm	ppm	ppt	ppt	%	%			CFU/100ml	CFU/100ml	cm	cm	cm	cm	°C	°C
90	4	04/24/90			5.1	8.1	9.5	11.7	11.2	11.0	80.26	105.93	7.5	7.9	•	•	BSV	BSV	•	•	6.2	16.0
90	4	04/08/90			•	10.0	•	9.7	•	17.1	•	95.51	•	7.6	•	•	•	105.0	•	•	•	11.0
90	4	05/09/90			12.6	12.0	12.0	8.8	10.2	20.1	119.67	92.29	7.8	7.9	•	•	BSV	BSV	•	•	13.0	13.0
90	4	05/24/90			13.0	13.0	6.3	10.8	15.2	15.8	65.95	112.33	7.2	7.7	•	•	BSV	BSV	•	•	9.5	13.5
90	4	06/08/90			19.0	18.1	8.6	8.0	19.9	20.4	103.99	95.15	7.7	7.8	•	•	BSV	BSV	•	•	19.0	22.7
90	4	06/22/90			19.0	22.0	7.7	7.5	24.3	25.2	95.33	98.73	7.6	7.7	•	•	•	85.0	•	•	19.0	31.0
90	4	07/07/90			21.0	23.6	9.5	6.7	25.8	22.4	123.55	89.78	8.0	7.9	•	•	•	90.0	•	90.0	19.5	30.0
90	4	07/20/90			23.0	25.9	8.4	8.6	28.9	29.3	115.40	123.72	8.0	7.9	•	•	•	•	•	•	24.1	37.0
90	4	08/05/90			24.0	26.6	6.7	7.7	27.8	28.5	93.08	112.15	7.8	8.0	•	•	BSV	115.0	•	115.0	24.0	28.0
90	4	08/20/90			19.0	21.5	7.5	8.2	24.0	18.4	92.93	103.07	7.6	7.8	•	•	•	120.0	•	120.0	14.5	19.0
90	4	09/03/90			18.5	22.5	6.3	6.8	22.2	22.4	76.47	89.09	7.5	7.6	•	•	•	45.0	•	•	12.0	27.5
90	4	09/18/90			11.5	15.0	8.5	7.0	27.1	25.6	92.19	80.93	7.6	7.6	•	•	•	95.0	•	•	7.0	16.5
90	4	10/04/90			13.0	15.5	9.2	8.8	28.6	29.0	104.04	105.00	7.6	7.9	•	•	•	90.0	•	90.0	4.0	21.5
90	4	10/18/90			14.0	16.1	7.0	7.5	19.9	21.2	76.53	86.13	7.4	7.6	•	•	•	95.0	•	95.0	16.0	20.3
90	4	11/02/90			7.7	11.0	8.9	9.1	14.4	16.3	81.29	91.20	7.6	7.7	•	•	•	110.0	•	110.0	10.0	23.0
91	4	04/14/91	LS FM EP EN	LS FM EP EN	5.5	11.5	9.2	12.0	19.9	16.3	82.92	121.59	7.7	8.3	•	•	•	40.0	•	40.0	-4.0	12.0
91	4	04/28/91	LS FM EP	LS FM EP	10.0	14.5	9.0	9.2	12.7	13.3	86.27	97.71	7.6	7.8	•	•	•	4.0	•	•	9.5	14.0
91	4	05/13/91	EP FM	EP FM	14.0	18.0	7.6	7.8	15.0	15.2	80.67	90.00	7.5	6.9	•	•	•	70.0	•	70.0	14.0	33.0
91	4	05/27/91	EP LS	EP LS	17.0	19.5	8.2	8.2	21.4	22.0	96.19	101.35	7.7	7.7	•	•	BSV	40.0	•	40.0	12.0	19.0
91	4	06/11/91	EP JJ JJ LS BF	EP JJ JJ LS BF	21.0	22.0	7.6	7.8	26.8	27.4	99.44	104.31	•	7.8	•	•	BSV	60.0	•	60.0	26.0	29.0
91	4	06/26/91	LS EP	LS EP	23.5	24.5	9.4	9.2	30.0	28.5	131.15	129.46	8.0	7.9	•	•	•	55.0	•	55.0	27.0	30.0
91	4	07/10/91	EP AR	EP AR	20.0	22.5	8.4	8.9	31.5	31.9	111.05	123.41	7.9	7.9	•	•	•	55.0	•	55.0	19.0	25.0
91	4	07/25/91	EP LS	EP LS	22.0	24.0	6.7	7.1	31.1	30.8	91.63	100.42	7.7	7.8	•	•	•	55.0	•	•	21.5	22.0
91	4	08/09/91			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
91	4	08/24/91	FM LS	FM LS	17.5	23.5	6.3	6.5	8.2	9.0	69.16	80.50	7.2	7.2	•	•	10.0	40.0	•	•	17.0	22.0
91	4	09/08/91	FM MM	FM MM	17.0	23.0	5.4	8.0	•	•	•	•	7.4	7.8	•	•	•	•	•	•	14.0	24.0
91	4	09/22/91	LS FM	LS FM	10.0	18.0	7.0	8.7	23.4	24.0	71.73	105.73	7.3	7.8	•	•	•	•	•	•	4.0	19.0
91	4	10/06/91	LS FM	LS FM	15.0	16.0	7.3	7.7	16.7	19.0	79.94	87.26	7.6	7.6	•	•	•	120.0	•	120.0	15.0	20.0
91	4	10/23/91	LS EP	LS EP	8.0	12.0	8.8	9.2	18.0	19.5	83.20	96.13	7.8	7.8	•	•	•	80.0	•	80.0	4.0	15.0
91	4	11/06/91	LS EP	EP	•	9.0	•	9.3	•	23.5	•	93.23	•	7.8	•	•	•	50.0	•	50.0	•	11.0
92	4	04/16/92	HM PF PW	PF PW	6.5	7.5	11.0	12.0	20.8	22.2	102.18	115.16	7.7	8.2	•	•	•	70.0	•	70.0	6.0	9.0
92	4	05/02/92	PW PF HN	FM	12.5	12.5	8.8	10.1	14.8	16.1	90.33	104.48	7.8	8.3	•	•	•	BSV	•	•	16.0	15.5
92	4	05/15/92			16.5	17.0	9.8	8.7	20.1	21.2	112.92	101.94	7.7	7.8	•	•	•	BSV	•	•	14.0	17.0
92	4	06/01/92	PW	PW	12.0	12.0	7.5	8.0	15.0	24.0	76.24	85.99	7.7	7.6	•	•	•	•	•	•	10.0	10.5
92	4	06/15/92	PW	PW	21.0	21.0	9.0	8.8	21.2	21.2	113.91	111.38	7.8	7.8	•	•	•	•	•	•	20.5	22.0
92	4	06/29/92	PK PW	PK PW LS	22.0	24.5	9.0	8.6	29.0	27.8	121.53	120.52	7.8	7.8	8.0	3	•	70.0	•	70.0	23.0	31.0
92	4	07/14/92	PW	PW PK	20.0	19.5	8.2	7.3	29.4	30.2	106.97	94.83	8.0	7.9	4.0	2	•	•	•	•	21.0	18.0
92	4	07/29/92	PW JJ	JJ JJ	23.5	24.0	8.5	8.1	30.3	30.6	118.81	114.43	8.1	7.9	2.0	2	•	90.0	•	•	24.0	30.0
92	4	08/12/92	PK PW	PK LS	19.0	21.0	7.6	9.1	23.5	30.3	93.89	121.63	7.6	•	10.0	1	140.0	BSV	•	•	18.5	22.0
92	4	08/26/92	PW LS	PW LS	21.5	25.5	6.6	8.6	27.8	26.9	87.67	121.99	7.6	8.0	22.0	4	•	BSV	•	•	23.0	30.0
92	4	09/11/92	LS PW	LS PW	19.0	22.0	7.2	8.6	30.8	29.9	93.02	116.76	7.8	8.0	8.0	9	•	•	•	•	20.0	23.0
92	4	09/26/92	DW JH	DW JH	12.5	14.5	9.4	9.0	24.6	30.4	102.50	106.20	7.6	7.9	5.0	3	BSV	BSV	•	•	13.0	15.5
92	4	10/10/92	PW LS	PK LS	14.0	15.0	7.2	8.5	27.1	30.7	82.33	101.52	7.6	8.0	•	18	BSV	BSV	•	•	18.0	23.0
92	4	10/24/92	LS PW	LS JJ	7.0	10.0	8.7	9.9	28.4	28.4	86.05	104.82	7.6	7.7	0.0	0	•	BSV	•	•	8.0	15.0
92	4	11/09/92	•	PW LS	-7.5	3.5	10.1	11.3	23.5	24.3	•	99.35	7.8	7.9	0.0	0	•	•	•	•	-6.0	4.0
93	4	04/21/93	•	LS PW	•	11.5	•	11.7	•	7.7	•	112.65	•	8.2	10.0	10	•	70.0	•	70.0	•	29.0
93	4	05/06/93	•	LS PM	•	19.0	•	9.2	•	11.5	•	106.02	•	7.7	•	40	•	40.0	•	40.0	•	24.0
93	4	05/20/93	•	PM PW	•	14.0	•	8.1	•	20.5	•	88.88	•	7.7	•	0	•	85.0	•	85.0	•	13.0
93	4	06/03/93	•	LS AR	•	20.0	•	8.6	•	23.3	•	108.15	•	7.9	•	0	•	55.0	•	55.0	•	25.0
93	4	06/23/93	•	LS	•	21.0	•	7.7	•	1.2	•	87.28	•	8.0	•	30	•	30.0	•	60.0	•	28.0
93	4	07/06/93	•	JJ JJ LS	•	26.0	•	•	•	28.1	•	•	•	8.1	•	0	•	55.0	•	55.0	•	35.0
93	4	07/22/93	•	LS PW	•	23.0	•	7.8	•	29.4	•	106.80	•	8.0	•	0	•	70.0	•	70.0	•	27.0
93	4	08/03/93	•	LS PW	•	26.0	•	9.8	•	28.9	•	141.87	•	8.1	•	•	•	75.0	•	75.0	•	33.0
93	4	08/19/93	•	PW	•	24.0	•	8.4	•	28.5	•	117.18	•	7.8	•	0	•	60.0	•	60.0	•	24.0
93	4	09/02/93	•	LS KF	•	24.0	•	7.9	•	31.7	•	112.35	•	7.9	•	0	•	60.0	•	60.0	•	24.5
93	4	09/20/93	•	LS PF KF	•	17.5	•	9.2	•	30.1	•	114.98	•	8.1	•	10	•	80.0	•	80.0	•	14.0
93	4	10/04/93	•	AT LS PW PF	•	17.5	•	9.8	•	29.2	•	121.79	•	8.0	•	TNTC	•	60.0	•	60.0	•	24.0
93	4	10/18/93	•	LS PW	•	16.0	•	10.1	•	27.5	•	120.59	•	8.0	•	240	•	40.0	•	40.0	•	12.0
93	4	11/09/93	•	LS AT KF	•	8.0	•	10.1	•	23.1	•	98.68	•	7.9	0.0	0	•	35.0	•	35.0	•	4.0
94	4	04/26/94	•	LS KF PM	•	9.0	•	11.2	•	19.6	•	109.49	•	7.9	•	1	•	55.0	•	55.0	•	8.0
94	4	05/10/94	•	LS KF AT PW	•	16.0	•	9.9	•	11.9	•	107.63	•	7.8	•	30	•	40.0	•	40.0	•	20.0
94	4	05/25/94	•	LS KF AT PW	•	16.0	•	9.4	•	18.3	•	106.08	•	7.6	•	1200	•	70.0	•	70.0	•	15.0

Site 4 - Depot Rd

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L	WTEMP-H	DO-L	DO-H	SAL-L	SAL-H	SAT-L	SAT-H	pH-L	pH-H	FECAL-L	FECAL-H	LP-L	LP-H	DEPTH-L	DEPTH-H	ATEMP-L	ATEMP-H
					°C	°C	ppm	ppm	ppt	ppt	%	%			CFU/100ml	CFU/100ml	cm	cm	cm	cm	°C	°C
94	4	06/09/94	•	KF AT	•	22.0	•	9.5	•	24.3	•	124.73	•	7.0	•	•	•	25.0	•	25.0	•	29.0
94	4	06/23/94	•	LS KF PM AT	•	23.0	•	8.1	•	28.6	•	111.08	•	8.1	•	7	•	50.0	•	50.0	•	27.0
94	4	07/11/94	•	LS KF PW	•	27	•	8.6	•	30.9	•	128.12	•	8.1	•	9	•	50	•	50	•	28.0
94	4	07/25/94	•	PW PM KF	•	27.5	•	7.7	•	31.7	•	116.22	•	7.9	•	2	•	80.0	•	80.0	•	34.0
94	4	08/09/94	•	PM KF PW	•	26.5	•	8.8	•	31.1	•	130.15	•	8.2	•	1	•	45	•	45	•	29.0
94	4	08/22/94	•	LS KF	•	19	•	7.3	•	30.6	•	94.19	•	7.8	•	•	•	70	•	70	•	16.0
94	4	09/07/94	•	LS PM KF PW	•	18	•	9.8	•	31.3	•	124.62	•	8	•	•	•	85	•	85	•	28.0
94	4	09/21/94	•	KF AT PM PW	•	20	•	9.9	•	31.3	•	130.72	•	8.1	•	0	•	42	•	42	•	22.0
94	4	10/06/94	•	LS KF	•	13	•	12.5	•	24.2	•	137.42	•	8.5	•	2	•	88	•	88	•	13.0
94	4	10/20/94	•	LS AT KF	•	13	•	11.8	•	29.4	•	134.13	•	8.3	•	0	•	80	•	80	•	•
94	4	11/07/94	•	LS KF PW	•	9	•	9.7	•	23.6	•	97.30	•	•	•	15	•	15	•	50	•	10.0
95	4	04/18/95	•	LS KF AT	•	•	•	11.6	•	•	•	•	•	7.1	•	0	•	•	•	55.0	•	12.0
95	4	05/01/95	•	PG KF PW	•	13.0	•	10.6	•	21.6	•	114.65	•	7.8	•	0	•	BSV	•	45.0	•	10.0
95	4	05/15/95	•	PG KF PW	•	12.5	•	8.8	•	23.6	•	95.32	•	7.6	•	2	•	BSV	•	75.0	•	9.0
95	4	05/30/95	•	PM KF LS	•	23.0	•	•	•	20.1	•	•	•	7.6	•	50	•	•	•	35.0	•	27.0
95	4	06/13/95	•	LS AT KF PW	•	18.0	•	8.4	•	24.8	•	102.59	•	7.6	•	4	•	BSV	•	57.0	•	16.0
95	4	06/27/95	•	LS PM	•	23.0	•	8.7	•	28.8	•	119.45	•	7.9	•	11	•	BSV	•	25.0	•	25.0
95	4	07/12/95	•	LS PW KF	•	24.0	•	•	•	29.2	•	•	•	7.8	•	1	•	•	•	55.5	•	28.0
95	4	07/27/95	•	PM KF	•	29.5	•	8.7	•	28.5	•	133.20	•	8.0	•	NV	•	BSV	•	65.0	•	35.0
95	4	08/10/95	•	LS PM KF	•	25.5	•	9.0	•	27.3	•	127.96	•	8.0	•	1	•	BSV	•	65.0	•	32.0
95	4	08/28/95	•	LS KF PW	•	23.0	•	8.3	•	30.1	•	114.86	•	7.9	•	NV	•	BSV	•	65.0	•	23.0
95	4	09/11/95	•	PM AT	•	20.5	•	8.1	•	31.3	•	107.93	•	8.1	•	0	•	BSV	•	65.0	•	21.0
95	4	09/26/95	•	PM KF LS PW	•	15.0	•	7.5	•	30.4	•	89.41	•	7.7	•	1	•	BSV	•	55.0	•	15.0
95	4	10/10/95	•	LES KF MY PM PW	•	16.0	•	9.0	•	32.0	•	110.59	•	7.9	•	0	•	BSV	•	55.0	•	19.0
95	4	10/26/95	•	LES KF AT PM	•	12.5	•	9.3	•	24.2	•	101.15	•	7.8	•	0	•	BSV	•	80.0	•	1.5
95	4	11/09/95	•	LS KF MY PM	•	6.0	•	10.8	•	13.7	•	94.72	•	7.5	•	14	•	45.0	•	60.0	•	0.0
96	4	04/18/96	•	KF PM PW	•	11.5	•	10.7	•	2.0	•	99.7	•	7.5	•	20	•	25.0	•	60.0	•	14.0
96	4	05/06/96	•	KF PM	•	11.5	•	9.2	•	6.4	•	87.9	•	7.4	•	3	•	65.0	•	65.0	•	10.0
96	4	05/20/96	•	LS AT KF PW	•	20.5	•	8.8	•	10.9	•	104.06	•	7.6	•	11	•	65.0	•	65.0	•	31
96	4	06/03/96	•	LS KF PM PW	•	19	•	9.6	•	18.4	•	115.07	•	7.8	•	0	•	57.5	•	60.0	•	17
96	4	06/17/96	•	LS PM KF	•	25	•	10.1	•	24	•	139.67	•	8	•	0	•	45.0	•	45.0	•	23
96	4	07/01/96	•	LS KF	•	25	•	8.4	•	26.4	•	117.78	•	8	•	19	•	65.0	•	65.0	•	31.5
96	4	07/15/96	•	PM KF	•	24	•	7.9	•	18.6	•	104.08	•	7.8	•	276	•	65.0	•	65.0	•	27
96	4	07/30/96	•	LS KF	•	22.5	•	9.1	•	22.3	•	119.16	•	8	•	1	•	65.0	•	65.0	•	23
96	4	08/14/96	•	LS KF PW	•	25	•	8.2	•	26.8	•	115.25	•	8	•	4	•	45.0	•	45.0	•	30
96	4	08/29/96	•	PM PW	•	23.5	•	8.8	•	28.9	•	121.97	•	7.8	•	61	•	80.0	•	80.0	•	30
96	4	09/16/96	•	KF	•	19	•	8.3	•	29.5	•	106.36	•	7.8	•	5	•	80.0	•	80.0	•	23
96	4	09/30/96	•	LS PM KF	•	15.5	•	9.4	•	27	•	110.75	•	8	•	0	•	75.0	•	75.0	•	18
96	4	10/15/96	•	LS KF	•	9	•	10	•	21.7	•	99.08	•	8	•	600	•	50.0	•	50.0	•	12
96	4	10/29/96	•	KF PM PW	•	6.5	•	9.9	•	4.2	•	82.96	•	7.4	•	TNTC	•	10.0	•	85.0	•	12
96	4	11/06/96	•	PM KF PW	•	7.5	•	10.5	•	8.5	•	92.51	•	7.4	•	15	•	50.0	•	50.0	•	9
97	4	04/23/97	•	LS, PM, KF, PW	•	11.5	•	10.6	•	5.9		101	•	7.8	•	8	•	70.0	•	70.0	•	17.0
97	4	05/06/97	•	LS, KF, PM	•	11	•	9.3	•	14.8		92.4	•	7.1	•		•	60.0	•	60.0	•	13.0
97	4	05/22/97	•	PM, KF	•	15.0	•	8.9	•	13.7	•	95.8	•	7.4	•	32	•	30.0	•	65.0	•	17.0
97	4	06/05/97	•	LS, KF, PM	•	17.0	•	9.1	•	20.7	•	106.3	•	7.8	•	•	•	50.0	•	50.0	•	16.0
97	4	06/23/97	•	KF	•	26.0	•	6.8	•	24.0	•	95.7	•	7.6	•	24	•	25.0	•	70.0	•	28.0
97	4	07/07/97	•	KF, PM	•	24.0	•	7.9	•	27.6	•	109.6	•	7.6	•	3	•	62.5	•	70.0	•	27.0
97	4	07/21/97	•	LS, KF	•	20.5	•	4.5	•	25.4	•	57.5	•	7.9	•	2	•	50.0	•	50.0	•	18.5
97	4	08/04/97	•	KF, LS	•	22.0	•	6.9	•	29.1	•	93.2	•	7.1	•	13	•	LOOSE EELGRASS BLOCKING VISIBILITY	•	50.0	•	23.0
97	4	08/19/97	•	LS, PM, KF	•	23.5	•	9.0	•	29.0	•	124.8	•	8.5	•	1	•	85.0	•	85.0	•	29.0
97	4	09/03/97	•	KF, PM	•	19.0	•	7.6	•	27.6	•	96.2	•	7.0	•	0	•	60.0	•	60.0	•	22.0
97	4	09/18/97	•	LS, BS, PW	•	22.5	•	7.5	•	29.0	•	102.2	•	7.9	•	•	•	40.0	•	40.0	•	23.0
97	4	10/02/97	•	LS, KF	•	13.0	•	9.9	•	29.5	•	112.6	•	7.8	•	4	•	45.0	•	45.0	•	15.0
97	4	10/17/97	•	LS, PM, KF	•	14.0	•	9.4	•	29.5	•	109.2	•	8.0	•	3	•	65.0	•	65.0	•	17.0
97	4	11/03/97	•	LS, KF, PW	•	11.0	•	9.3	•	25.8	•	98.9	•	7.8	•	45	•	75.0	•	75.0	•	14.5
98	4	05/12/98	•	LS, RS, BH, PM	•	14.0	•	10.6	•	7.0	•	107.4	•	7.6	•	56	•	30.0	•	35.0	•	15.0
98	4	06/10/98	•	LS, PM, KA, PW	•	23.0	•	10.5	•	21.8	•	138.4	•	8.4	•	100	•	45.0	•	45.0	•	24.0
98	4	07/09/98	•	LS,PM,RS,PW	•	29.0	•	6.6	•	9.3	•	90.3	•	7.6	•	0	•	45.0	•	45.0	•	28.0
98	4	08/10/98	•	LS,PM	•	26.0	•	7.1	•	27.5	•	101.9	•	7.6	•	2	•	60.0	•	60.0	•	32.0
98	4	09/09/98	•	LS,PW,RS	•	18.0	•	7.9	•	29.4	•	99.3	•	8.0	•	TNTC	•	45.0	•	45.0	•	16.5
98	4	10/07/98	•	LS, PM	•	14.0	•	9.9	•	30.3	•	115.6	•	7.8	•	1	•	30.0	•	30.0	•	21.0

Site 4 - Depot Rd

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L °C	WTEMP-H °C	DO-L ppm	DO-H ppm	SAL-L ppt	SAL-H ppt	SAT-L %	SAT-H %	pH-L	pH-H	FECAL-L CFU/100ml	FECAL-H CFU/100ml	LP-L cm	LP-H cm	DEPTH-L cm	DEPTH-H cm	ATEMP-L °C	ATEMP-H °C
98	4	11/05/98	•	PM	LS	7.0	•	9.8	•	24.6	•	94.5	•	7.8	•	0	•	55.0	•	55.0	•	10.0
99	4	04/29/99	•	LS, PM	•	14.0	•	10.0	•	22.2	•	110.88	•	7.8	•	66	•	35.0	•	35.0	•	15.0
99	4	05/17/99	•	LS, PM, PW	•	18.0	•	8.9	•	24.2	•	108.26	•	7.8	•	16	•	40.0	•	40.0	•	28.0
99	4	06/15/99	•	LS, PM	•	24.0	•	9.4	•	26.1	•	129.29	•	8.1	•	1	•	85.0	•	85.0	•	26.0
99	4	07/13/99	•	LS, PW, PM	•	21.0	•	7.3	•	29.8	•	97.24	•	7.8	•	100	•	EEL GRASS, VERY MURKY	•	50.0	•	24.0
99	4	08/12/99	•	LS, PM	•	23.0	•	8.4	•	30.5	•	116.52	•	7.8	•	0	•	50.0	•	50.0	•	34.0
99	4	09/13/99	•	LS,PM	•	23.0	•	10.1	•	26.8	•	137.03	•	7.8	•	6	•	50.0	•	50.0	•	25.0
99	4	10/12/99	•	LS,PM,PW	•	13.0	•	10.2	•	23.6	•	111.68	•	7.8	•	4	•	45.0	•	45.0	•	15.0
99	4	11/09/99	•	LS,PM,PW	•	7.0	•	10.4	•	20.8	•	97.78	•	7.7	•	16	•	50.0	•	50.0	•	12.0
00	4	04/19/00	•	PM, LS	•	8.00	•	11.30	•	15.70	•	105.31	•	7.70	•	0.00	•	40.00	•	40.00	•	7.00
00	4	05/18/00	•	PM,EA	•	16.00	•	9.20	•	19.25	•	104.42	•	7.70	•	0.00	•	40.00	•	40.00	•	24.00
00	4	06/19/00	•	LS, PS, EA, PM	•	24.00	•	9.50	•	20.50	•	126.51	•	8.00	•	16.00	•	40.00	•	40.00	•	25.00
00	4	07/17/00	•	LS, PM	•	21.00	•	8.10	•	25.45	•	105.12	•	7.80	•	60.00	•	40.00	•	40.00	•	21.00
00	4	08/15/00	•	LS, PM	•	21.00	•	8.30	•	22.20	•	105.67	•	7.70	•	21.00	•	50.00	•	50.00	•	28.50
00	4	09/14/00	•	PM, JJ, JJ	•	24.00	•	12.10	•	28.90	•	169.20	•	8.00	•	2.00	•	50.00	•	50.00	•	27.00
00	4	10/16/00	•	PM, LS	•	9.00	•	8.10	•	26.00	•	82.54	•	7.70	•	•	•	50.00	•	50.00	•	5.00
00	4	11/13/00	•	PM, LS	•	9.00	•	9.00	•	20.90	•	88.72	•	7.60	•	0.00	•	55.00	•	55.00	•	10.00
01	4	04/24/01	•	LS, PM	•	14.0	•	9.6	•	11.8	•	100.0	•	7.6	•	1	•	60.0	•	60.0	•	34.0
01	4	05/23/01	•	LS, PM, PW	•	16.0	•	9.2	•	22.9	•	106.7	•	7.6	•	1	•	40.0	•	40.0	•	19.0
01	4	06/21/01	•	LS, PM, DP	•	20.0	•	6.9	•	17.9	•	84.1	•	7.1	•	21	•	25.0	•	25.0	•	19.0
01	4	07/23/01	•	LS, PM	•	26.0	•	8.6	•	26.9	•	123.1	•	7.8	•		•	70.0	•	70.0	•	34.0
01	4	08/20/01	•	LS, PM	•	23.0	•	7.6	•	28.8	•	104.4	•	7.5	•	24	•	40.0	•	40.0	•	24.0
01	4	09/18/01	•	LS, PM	•	21.0	•	9.4	•	29.7	•	125.1	•	7.8	•	0	•	40.0	•	40.0	•	27.0
01	4	10/17/01	•	LS, PM, PW	•	14.0	•	8.1	•	28.9	•	93.7	•	7.7	•	15	•	50.0	•	50.0	•	16.0
01	4	11/01/01	•	LS, PM, PW	•	10.0	•	9.6	•	27.4	•	101.0	•	7.8	•	>120	•	70.0	•	70.0	•	13.0
02	4	04/29/02	•	LS, PM	•	8.0	•	11.9	•	14.4	•	110.0	•	7.1	•	12	•	100.0	•	100.0	•	6.0
02	4	05/28/02	•	LS, PM	•	17.0	•	8.6	•	18.1	•	98.9	•	7.4	•	29	•	35.0	•	35.0	•	20.0
02	4	06/25/02	•	LS, PM, PH	•	22.5	•	7.9	•	17.5	•	100.6	•	7.5	•	8	•	45.0	•	45.0	•	31.0
02	4	07/25/02	•	LS, PM	•	26.0	•	8.9	•	28.3	•	128.4	•	7.9	•	3	•	35.0	•	35.0	•	27.0
02	4	08/26/02	•	PM, LS, PW	•	24.0	•	8.3	•	29.8	•	116.7	•	7.7	•	0	•	65.0	•	65.0	•	29.0
02	4	09/23/02	•	LS, PM, BT	•	22.0	•	7.8	•	31.1	•	106.7	•	7.8	•	4	•	60.0	•	60.0	•	23.0
02	4	10/22/02	•	LS, PW	•	8.5	•	9.5	•	28.0	•	97.0	•	7.7	•	2	•	60.0	•	60.0	•	12.0
02	4	11/06/02	•	LS, PW	•	7.0	•	9.4	•	25.7	•	91.3	•	7.7	•	64	•	•	•	40.0	•	9.0

Site 5 - Portsmouth Country Club

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L	WTEMP-H	DO-L	DO-H	SAL-L	SAL-H	SAT-L	SAT-H	pH-L	pH-H	FECAL-L	FECAL-H	LP-L	LP-H	DEPTH-L	DEPTH-H	ATEMP-L	ATEMP-H
					°C	°C	ppm	ppm	ppt	ppt	%	%			CFU/100ml	CFU/100ml	cm	cm			°C	°C
90	5	4/8/1990			5.0	11.0	10.7	10.4	2.80	7.20	85.64	98.73	7.2	7.3	*	*	*	23.0	*	*	3.0	14.0
90	5	04/25/90			11.0	11.0	9.3	9.3	1.80	16.00	85.61	93.03	7.3	7.7	*	*	*	65.0	*	*	10.0	10.0
90	5	05/09/90			12.0	21.0	8.8	8.9	2.00	12.70	82.97	107.33	7.5	7.4	*	*	*	55.0	*	*	11.0	27.0
90	5	05/24/90			10.0	15.0	9.0	8.6	1.80	13.90	80.94	92.64	7.4	7.6	*	*	*	36.0	*	*	12.0	9.0
90	5	06/08/90			17.0	23.0	7.7	7.9	4.10	17.50	81.81	101.58	7.3	7.8	*	*	*	45.0	*	*	18.0	22.0
90	5	06/22/90			18.0	25.0	5.8	7.7	10.80	22.50	65.27	105.57	7.2	7.8	*	*	*	45.0	*	*	17.0	29.0
90	5	07/07/90			20.0	24.0	6.6	8.2	10.10	24.80	76.96	111.93	7.4	8.0	*	*	*	50.0	*	*	17.0	22.0
90	5	07/22/90			23.0	26.0	4.7	7.1	20.10	28.20	61.33	102.36	7.5	8.0	*	*	*	75.0	*	*	22.0	27.0
90	5	08/06/90			23.0	23.0	5.5	7.5	18.60	29.50	71.16	103.41	7.4	7.9	*	*	*	45.0	*	*	23.0	22.0
90	5	08/20/90			19.0	21.0	6.6	8.3	12.20	26.10	76.36	108.14	7.2	8.0	*	*	*	90.0	*	*	10.0	19.0
90	5	09/04/90			18.0	21.0	6.5	7.9	10.80	22.20	73.14	100.57	7.3	7.7	*	*	*	95.0	*	*	14.0	20.0
90	5	09/18/90			12.0	14.0	6.6	8.2	14.90	26.90	67.05	93.65	7.3	7.8	*	*	*	55.0	*	*	10.0	13.0
90	5	10/04/90			12.0	15.0	6.6	8.5	17.50	27.40	68.12	99.40	7.8	8.2	*	*	*	*	*	*	11.0	23.0
90	5	10/18/90			13.0	14.0	7.2	7.3	0.10	10.80	68.69	75.61	7.2	7.2	*	*	*	60.0	*	*	17.0	24.0
90	5	11/02/90			*	10.0	*	9.1	*	14.60	*	88.24	*	7.6	*	*	*	80.0	*	*	*	19.0
91	5	04/14/91	HJ SM LK BB	HJ SM LK BB	6.5	11.5	9.9	10.4	2.80	17.50	82.28	106.15	7.5	8.1	*	*	*	70.0	*	*	3.0	11.0
91	5	04/28/91	HJ LK BB	HJ LK BB	13.0	15.0	8.1	8.6	2.10	11.40	78.14	91.30	7.0	7.6	*	*	*	30.0	*	*	9.0	12.0
91	5	05/14/91	LK HJ BB	LK HJ BB	18.5	17.0	6.0	7.5	5.60	17.10	66.26	85.76	7.3	7.6	*	*	*	45.0	*	*	17.0	15.0
91	5	05/28/91	BB HJ LK	BB HJ LK	18.0	23.0	6.2	7.2	8.20	22.60	68.76	95.31	7.4	7.7	*	*	*	65.0	*	*	16.0	28.0
91	5	06/12/91	BB HJ LK	BB HJ LK	21.0	24.0	4.8	6.1	10.30	22.90	57.12	82.35	7.3	7.8	*	*	*	70.0	*	*	20.0	25.0
91	5	06/26/91	BB SM HJ LK	BB SM HJ LK	21.0	25.0	7.2	8.5	14.20	27.80	87.56	120.17	7.7	8.0	*	*	*	85.0	*	*	21.0	30.0
91	5	07/11/91	BB LK HJ	BB LK HJ	20.0	23.0	5.8	8.0	20.60	29.80	71.79	110.51	7.4	7.9	*	*	*	90.0	*	*	18.0	27.0
91	5	07/26/91	LK BB HJ	LK BB HJ	22.0	23.0	4.6	6.0	18.60	30.20	58.43	83.08	7.5	7.8	*	*	*	85.0	*	*	20.0	24.0
91	5	08/09/91	HJ SM LK	HJ SM LK	22.0	23.0	5.5	7.4	23.80	32.10	72.00	103.66	7.6	7.9	*	*	*	95.0	*	*	19.0	21.0
91	5	08/25/91	LK SN BB	LK SN BB	19.0	23.0	6.0	7.4	1.80	9.60	65.58	91.10	7.1	7.5	*	*	*	70.0	*	*	16.0	20.0
91	5	09/09/91	HJ RJ BB RH	HJ RJ BB RH	18.0	22.0	5.8	8.6	6.00	23.80	63.55	112.58	7.3	7.9	*	*	*	95.0	*	*	12.0	19.0
91	5	09/23/91	HJ LK BB	HJ LK BB	12.0	16.0	7.8	8.0	3.30	20.90	74.08	91.70	7.2	7.7	*	*	*	115.0	*	*	11.0	18.0
91	5	10/07/91	LK SM BB	LK SM BB	12.0	13.5	7.6	8.4	2.00	13.90	71.65	87.64	7.3	7.6	*	*	*	55.0	*	*	5.0	12.0
91	5	10/23/91	HJ LK SM	HJ LK SM	7.0	11.0	8.8	9.4	1.60	17.50	73.55	94.90	7.3	7.7	*	*	*	*	*	*	2.0	14.0
91	5	11/06/91	LK HJ BB	LK SM BB	5.0	6.0	9.2	9.5	5.20	22.00	74.69	87.89	7.7	7.8	*	*	*	*	*	*	0.0	7.0
92	5	04/16/92	LK SM HJ BB	SM BB	5.5	8.5	10.8	12.0	2.80	18.30	87.54	115.00	7.2	8.3	*	*	BSV	55.0	*	*	-2.0	2.0
92	5	05/02/92	LK HJ SM BB	LK HJ SM BB	12.5	14.5	8.6	9.8	2.10	15.30	82.03	105.31	7.4	8.1	*	*	BSV	90.0	*	*	11.0	13.0
92	5	05/16/92	LK SM BB	LK SM BB	13.5	15.5	7.3	8.5	6.70	18.70	73.05	95.17	7.4	7.8	*	*	BSV	65.0	*	*	8.0	14.0
92	5	06/01/92	SM BB	SM HJ BB	14.0	13.5	6.4	7.5	12.60	17.60	66.98	80.00	7.4	7.6	*	*	BSV	35.0	*	*	9.0	9.0
92	5	06/14/92	LK BB	LK BB	21.0	27.0	4.6	6.9	3.70	13.90	52.83	93.42	7.1	7.7	*	*	BSV	55.0	*	*	20.0	30.0
92	5	06/30/92	HJ LK SM	HJ LK SM	22.0	26.0	5.1	8.6	16.00	25.60	63.84	122.13	7.2	7.9	*	42	BSV	80.0	*	*	20.0	29.0
92	5	07/14/92	LK SM BB	LK SM BB	21.0	20.0	5.5	6.7	11.60	27.20	65.92	86.26	7.2	7.7	0	10	bsv	95.0	*	*	20.0	17.0
92	5	07/28/92	HJ BB LK	HJ BB LK	20.0	22.0	5.9	7.5	14.00	26.80	70.31	99.94	7.3	7.7	480	16	bsv	100.0	*	*	22.0	24.0
92	5	08/13/92	SM BB	SM BB	19.0	20.0	6.8	8.7	14.40	27.20	79.65	112.01	7.4	7.8	137	2	bsv	bsv	*	*	12.0	19.0
92	5	08/27/92	LK SM HJ BB	LK SM BB	22.5	24.0	4.5	6.2	16.00	26.00	56.85	85.22	7.2	7.6	560	15	bsv	125.0	*	*	20.0	26.5
92	5	09/11/92	LK SM HJ BB	LK SM HJ BB	20.0	21.0	5.1	7.1	12.70	27.40	60.33	93.23	7.2	7.7	390	8	bsv	bsv	*	*	18.0	22.0
92	5	09/26/92	SM HJ LK BB	SM HJ BB	12.0	14.0	7.4	8.7	17.50	29.50	76.38	101.03	7.5	7.9	90	5	bsv	bsv	*	*	11.0	15.0
92	5	10/11/92	HJ LK BB	HJ LK BB	13.0	14.0	6.2	7.7	10.50	28.50	62.73	88.84	7.1	7.5	540	42	bsv	bsv	*	*	13.0	17.0
92	5	10/25/92	SM BB	SM BB	9.0	9.0	8.1	8.8	9.30	26.00	74.33	89.67	7.2	7.6	200	0	bsv	bsv	*	*	7.0	8.0
92	5	11/09/92	LK SM BB	LK HJ SM BB	1.0	3.0	10.9	10.9	2.20	19.10	78.15	91.80	7.5	7.7	10	10	bsv	80.0	*	*	-6.0	2.0
93	5	04/21/93	BB HJ SM	BB HJ SM	13.5	15.5	8.8	11.2	1.10	4.40	85.35	115.51	7.3	8.2	180	330	*	57.5	*	100.0	15.0	20.0
93	5	05/06/93	HJ SM BB AR	HJ SM BB	17.0	18.5	7.6	7.9	1.80	15.50	79.75	92.21	7.4	7.5	*	*	40.0	47.5	40.0	70.0	19.0	29.0
93	5	05/20/93	BB DC	HJ BB DC	13.5	15.5	7.3	7.9	3.90	18.60	71.91	88.40	7.2	7.4	1100	0	35.0	62.5	35.0	110.0	11.5	13.0
93	5	06/03/93	HJ SM DC BB	HJ SM DC BB	14.0	17.5	6.6	7.8	10.30	23.20	68.16	93.41	7.4	7.6	240	10	30.0	27.5	30.0	125.0	14.0	22.0
93	5	06/23/93	SM BB DC	SM BB	19.5	21.5	6.2	6.9	15.60	26.80	73.83	90.44	7.3	7.6	*	*	30.0	27.5	30.0	120.0	20.0	24.0
93	5	07/06/93	SM BB DC	SM BB DC	24.5	28.0	7.2	7.6	19.80	15.70	96.35	105.71	7.4	7.7	350	0	35.0	102.5	35.0	115.0	24.0	34.0
93	5	07/22/93	BB DC	BB DC SM	21.5	22.5	5.5	7.0	24.30	32.30	71.54	97.30	7.3	7.7	200	0	45.0	55.0	45.0	75.0	22.0	25.0
93	5	08/03/93		BB DC SM	23.5	27.5	7.8	8.8	18.00	28.80	101.49	130.58	7.3	7.8	600	0	45.0	110.0	45.0	120.0	24.0	31.0
93	5	08/19/93	SM DC	SM DC BB	21.0	23.0	4.2	6.8	23.80	30.10	53.98	94.10	7.2	7.7	210	10	35.0	135.0	35.0	135.0	19.5	24.5
93	5	09/02/93	BB SM DC	BB SM DC	22.0	24.0	4.3	8.2	24.10	31.50	56.39	116.47	7.2	7.8	100	0	45.0	110.0	45.0	110.0	20.0	23.5

Site 5 - Portsmouth Country Club

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L	WTEMP-H	DO-L	DO-H	SAL-L	SAL-H	SAT-L	SAT-H	pH-L	pH-H	FECAL-L	FECAL-H	LP-L	LP-H	DEPTH-L	DEPTH-H	ATEMP-L	ATEMP-H
					°C	°C	ppm	ppm	ppt	ppt	%	%			CFU/100ml	CFU/100ml	cm	cm			°C	°C
93	5	09/20/93	BB SM	BB SM DC	15.0	16.5	6.8	9.2	19.60	24.10	75.77	108.61	7.5	7.9	*		45.0	87.5	45.0	145.0	18.0	15.0
93	5	10/04/93	BB SM DC	BB SM DC	12.5	16.0	7.9	9.5	12.90	28.00	80.18	113.78	7.4	7.9	140	0	50.0	110.0	50.0	110.0	17.0	22.0
93	5	10/18/93	BB DC	BB DC SM	11.5	14.0	7.4	8.5	13.90	28.50	73.90	98.08	7.5	7.8	*	*	45.0	27.5	45.0	*	16.0	18.0
93	5	11/09/93	SM DC BB	SM DC	5.0	3.0	10.5	10.1	5.70	22.00	85.51	86.74	7.4	7.7	*	*	35.0	85.0	35.0	85.0	10.0	1.0
94	5	04/26/94	BB DC SM	BB DC SM	8.0	8.0	9.0	10.4	1.60	17.00	77.09	97.71	7.3	8.0	60	12	*	72.5	*	115.0	5.0	7.0
94	5	05/10/94	BB DC SM	BB DC SM	14.0	16.0	8.3	8.8	1.00	10.60	81.35	94.96	7.3	7.6	100	60	*	27.5	*	110.0	14.0	18.0
94	5	05/25/94	BB DC SM	BB DC SM	15.0	15.5	6.5	7.6	4.90	17.00	66.52	84.23	7.3	7.5	TNTC	20	*	82.5	*	135.0	11.0	15.0
94	5	06/09/94	BB DC	BB DC SM	18.5	23	5.5	8.9	7.10	21.60	61.24	117.14	7.3	8.0	520	11	*	55.0	*	95.0	19.0	26.0
94	5	06/23/94	BB DC SM	BB DC SM	20.5	23.0	5.6	7.9	19.50	27.20	69.52	107.44	7.3	7.9	TNTC	25	35.0	40.0	35.0	70.0	21.0	22.0
94	5	07/11/94	BB DC	DC SM	24.0	27.0	6.9	10.4	20.50	28.20	91.88	152.51	7.5	8.2	340	34	35.0	75.0	35.0	75.0	24.0	33.0
94	5	07/25/94	BB DC	DC SM	25.0	28.0	6.5	9.3	16.90	28.60	85.69	139.00	7.5	7.9	430	10	35.0	97.5	35.0	115.0	25.0	30.0
94	5	08/09/94	BB DC	BB DC SM	21.0	25.0	6.0	8.9	22.50	29.20	76.52	126.87	7.4	8.1	320	10	35.0	115.0	35.0	115.0	21.0	27.0
94	5	08/22/94	BB DC	BB DC	20.0	19.5	5.1	7.0	8.80	27.00	59.05	89.16	7.3	7.5	1000	0	35.0	90.0	35.0	90.0	19.0	16.0
94	5	09/07/94	BB DC SM	BB DC SM	14.5	17.0	6.8	9.6	15.70	29.20	73.25	118.16	7.3	8.1	*	*	35.0	100.0	35.0	100.0	15.0	21.0
94	5	09/21/94	BB DC SM	BB DC SM	16.0	19.5	8.5	11.5	13.20	28.50	93.10	147.83	7.8	8.4	57	1	25.0	105.0	25.0	105.0	16.0	23.0
94	5	10/06/94	BB DC	BB DC SM	9.5	13.0	7.9	11.4	3.10	20.30	70.73	122.31	7.3	8.4	110	2	35.0	62.5	35.0	100.0	8.0	14.0
94	5	10/20/94	BB DC SM	BB DC SM	11.0	13.0	7.3	10.4	8.40	25.50	69.78	115.28	7.4	8.3	33	3	35.0	75.0	35.0	130.0	19.0	16.0
94	5	11/07/94	BB SM	BB SM	9.0	9.0	8.3	9.0	13.40	27.40	78.07	92.57	7.4	7.7	260	10	35.0	18.5	35.0	*	8.0	11.0
95	5	04/18/95	BB SM	BB DC SM	10.0	12.5	10.8	11.1	1.15	18.80	96.33	116.73	7.6	8.0	22	NV	*	97.5	45.0	110.0	13.0	11.0
95	5	05/01/95	BB DC SM	BB DC SM	10.0	12.0	9.1	9.3	4.30	20.10	83.02	97.54	7.5	7.9	26	3	*	87.5	45.0	105.0	8.5	11.0
95	5	05/15/95	BB DC SM	BB DC SM	12.0	11.5	8.3	8.4	3.30	22.60	78.82	88.51	7.4	7.8	110	0	*	70.0	45.0	120.0	10.0	9.0
95	5	05/30/95	BB DC	BB DC	17.5	21.0	6.0	8.6	4.20	19.90	64.44	108.03	7.5	7.8	240	20	*	27.5	45.0	95.0	20.0	23.0
95	5	06/13/95	BB SM	DC SM BB	16.5	19.0	5.1	7.4	11.40	23.60	55.85	91.47	7.2	7.6	220	25	*	75.0	45.0	120.0	17.0	16.5
95	5	06/27/95	DC SM	DC SM	21.0	22.0	6.6	8.1	14.60	27.80	80.44	108.58	7.5	8.0	340	4	*	70.0	45.0	95.0	22.0	23.0
95	5	07/12/95	BB DC SM	BB DC SM	20.0	23.0	4.6	7.5	22.00	28.80	57.41	102.98	7.3	8.0	230	5	*	100.0	45.0	115.0	17.0	24.0
95	5	07/27/95	BB SM	BB DC SM	24.0	29.5	5.1	9.5	2.60	25.50	61.65	143.00	7.3	8.0	TNTC	NV	*	BSV	45.0	95.0	24.0	32.0
95	5	08/10/95	BB DC SM	BB SM	21.0	26.0	5.0	9.0	16.00	27.80	61.42	129.45	7.3	8.0	320	0	*	*	45.0	115.0	20.0	28.5
95	5	08/28/95	BB DC SM	BB DC SM	18.0	22.0	6.0	9.7	21.40	29.80	71.79	131.62	7.4	8.0	NV	NV	*	BSV	45.0	115.0	20.0	22.0
95	5	09/11/95	BB SM	BB SM DC	15.0	18.0	6.5	10.3	26.00	30.80	75.34	130.56	7.5	8.0	10	0	*	87.5	45.0	120.0	14.0	21.0
95	5	09/26/95	SM DC	BB DC SM	14.5	13.0	6.3	8.8	21.60	29.80	70.32	100.29	7.5	8.0	80	0	*	130.0	45.0	135.0	14.0	15.0
95	5	10/10/95	BB DC	BB DC SM	11.5	16.0	7.4	10.0	8.40	27.70	71.54	119.54	7.4	8.0	30	0	*	BSV	45.0	130.0	10.0	18.0
95	5	10/26/95	BB DC SM	BB DC SM	10.0	13.0	8.0	9.1	2.40	24.20	72.19	100.04	7.4	7.9	10	10	*	90.0	45.0	140.0	8.0	18.0
95	5	11/09/95	BB DC	BB DC	4.5	5.0	10.3	10.5	0.20	13.00	80.13	89.43	7.4	7.6	140	120	*	19.0	45.0	130.0	1.0	0.0
96	5	04/18/96	BB DC SM	BB DC SM	6.5	10.0	11.0	10.8	0.20	9.40	90.1	101.5	7.5	7.6	20	0	*	27.5	*	120.0	7.0	13.0
96	5	05/06/96	BB DC	BB JD DC	11.5	12	9.4	9.5	0.60	9.00	86.93	93.21	7.4	7.6	60	30	*	30.0	45.0	95.0	4.5	8.5
96	5	05/20/96	BB DC	DC SM	17.5	22	7.9	8	0.30	11.20	83.08	97.51	7.1	7.6	70	0	*	62.5	*	105.0	22	32
96	5	06/03/96	BB DC	BB DC SM	12.5	18.5	6.2	8.4	9.00	18.70	69.76	99.88	7.3	7.8	90	8	BSV	52.5	45.0	100.0	19	15
96	5	06/17/96	BB DC	DC SM	22	26	7.4	8.9	10.30	23.20	89.73	124.66	7.6	8	104	6	BSV	67.5	45.0	75.0	22	25
96	5	07/01/96	BB DC CC	DC SM JD	19	23.5	5.4	7.8	16.30	24.60	63.95	105.39	7.3	7.9	440	4	BSV	102.5	45.0	110.0	20	29.5
96	5	07/15/96	BB DC JD	DC SM JD	20	24	6.4	6.9	0.80	14.60	70.99	88.88	7.1	7.6	210	110	BSV	82.5	45.0	105.0	19.5	25
96	5	07/30/96	BB SM	BB DC SM	21	23	5	8.6	6.90	21.30	58.4	112.99	7.2	8	470	8	BSV	82.5	45.0	115.0	17.5	21
96	5	08/14/96	DC SM	DC SM JD	19	24	6.5	9	14.00	26.00	75.97	123.71	7.6	8	170	0	BSV	BSV	45.0	90.0	19	26
96	5	08/29/96	BB DC	BB DC	20	23.5	5.2	8.1	23.00	28.50	65.28	112	7.3	7.8	280	0	BSV	120.0	45.0	130.0	18	28
96	5	09/16/96	BB SM	BB SM	18	19	5.4	8.2	18.70	27.90	63.59	104.04	7.3	7.8	100	20	BSV	BSV	45.0	115.0	16	17
96	5	09/30/96	BB	BB DC SM	15	17.5	7	9	7.30	25.90	72.6	109.57	7.1	8	150	10	33.0	72.5	80.0	120.0	16	18
96	5	10/15/96	DC SM	BB DC SM	8	10	9.1	9.6	0.20	21.70	77.32	97.3	7.3	8	86	8	BSV	25.0	45.0	110.0	5	10
96	5	10/29/96	BB DC SM	BB DC SM	9	9	8.8	9.8	0.30	1.70	76.62	86.03	6.6	7.4	20	96	BSV	BSV	45.0	10.0	8	10
96	5	11/06/96	BB DC SM	BB DC SM	6.5	6.5	10.7	9.7	0.20	6.70	87.6	82.5	7.3	7.2	21	12	BSV	47.5	45.0	95.0	7.5	8
97	5	04/23/97	BB, DC	BB, DC	10.5	14.5	9.2	10	0.60	3.60	83.1	100.5	7.8	7.5	8	6	45.0	72.5	45.0	125.0	12.0	14.0

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YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L	WTEMP-H	DO-L	DO-H	SAL-L	SAL-H	SAT-L	SAT-H	pH-L	pH-H	FECAL- L	FECAL- H	LP-L	LP-H	DEPTH-L	DEPTH-H	ATEMP-L	ATEMP-H
					°C	°C	ppm	ppm	ppt	ppt	%	%			CFU/100ml	CFU/100ml	cm	cm			°C	°C
97	5	05/06/97	BB, DC	SM, DC	11.0	11.0	9.2	9.3	0.30	13.50	84.0	91.6	7.6	7.8	22	15	45.0	70.0	45.0	130.0	11.0	10.0
97	5	05/22/97	BB, DC	SM, DC	12.5	14.0	9.0	8.4	0.33	15.20	85.0	89.3	7.5	7.7	*	*	45.0	27.5	45.0	115.0	11.0	14.0
97	5	06/05/97	BB, DC	DC, SM	15.0	16.5	7.0	8.2	8.25	20.25	73.0	94.6	7.4	7.8	*	*	45.0	50.0	45.0	125.0	13.0	14.0
97	5	06/23/97	BB, SM, DC	BB, SM, DC	23.0	25.0	7.6	7.0	10.55	24.35	94.0	97.0	7.6	7.8	192	14	45.0	35.0	45.0	115.0	24.0	26.0
97	5	07/07/97	BB, DC, SM	BB, DC, SM	24.0	27.0	8.1	8.3	14.55	27.15	104.3	121.0	7.8	8.0	158	0	45.0	80.0	45.0	95.0	25.0	28.0
97	5	07/21/97	BB, DC, SM	BB, DC, SM	20.0	20.5	6.4	7.9	10.10	12.20	74.6	94.1	7.4	7.8	*	10	45.0	110.0	45.0	110.0	20.0	18.5
97	5	08/04/97	BB, DC, SM	BB, SM, DC	22.0	22.5	7.1	8.1	17.30	27.80	89.5	109.6	7.6	8.0	228	0	45.0	110.0	45.0	110.0	19.0	21.0
97	5	08/19/97	BB, SM, DC	BB, SM, DC	20.0	23.5	6.3	9.0	20.80	28.50	78.1	124.4	7.4	8.1	98	112	45.0	97.5	45.0	125.0	18.0	24.0
97	5	09/03/97	BB, SM, DC	BB, SM, DC	19.0	21.0	6.0	7.5	14.30	27.40	70.2	98.5	7.3	7.8	90	0	45.0	97.5	45.0	110.0	15.0	19.0
97	5	09/18/97	DC, JJ, JJ	DC, JJ, JJ	18.0	22.0	5.8	8.8	16.10	28.50	67.3	118.5	7.4	7.9	0	0	45.0	BSV	45.0	145.0	20.0	27.0
97	5	10/02/97	DC, SM	DC, BB, SM	9.0	12.5	8.2	9.4	9.95	27.50	75.5	104.4	7.3	8.0	28	0	45.0	80.0	45.0	105.0	6.0	14.0
97	5	10/17/97	BB, DC, SM	BB, DC, SM	11.0	13.5	7.1	9.2	18.50	29.50	72.1	105.7	7.6	8.0	190	8	45.0	BSV	45.0	150.0	6.0	14.0
97	5	11/03/97			11.0	13.0	8.0	9.3	0.60	17.70	73.1	98.2	6.9	7.7	570	110	45.0	80.0	45.0	135.0	17.0	13.5
98	5	05/12/98	DC, BB, SM	BB, DC, SM	10.5	15.0	10.2	9.7	0.28	8.90	92.0	101.5	7.3	7.6	310	114	BSV	37.5	45.0	130.0	11.0	13.0
98	5	06/10/98	BB, SM, DC	BB, SM, DC	18.0	23.0	6.5	9.2	4.50	21.15	70.6	120.8	7.4	8.0	34	2	45.0	57.5	45.0	95.0	19.0	24.0
98	5	07/09/98	SM,DC	SM, DC, BB	20.0	26.5	5.8	7.2	1.45	12.00	64.6	95.6	7.3	*	130	10	BSV	75.0		115.0	18.0	24.0
98	5	08/10/98	BB,DC	BB,SM,DC	25.0	27.0	5.5	7.9	15.10	27.30	72.4	115.2	7.4	7.9	148	2	45.0	70.0	45.0	115.0	27.0	31.0
98	5	09/09/98	BB, SM, DC	BB, SM, DC	19.0	19.0	7.2	8.2	20.00	27.55	87.1	103.8	7.6	8.0	0	2	45.0	100.0	45.0	155.0	18.5	15.0
98	5	10/07/98	BB, DC	BB, SM	9.0	12.5	9.1	9.8	19.60	30.08	89.0	110.7	7.8	8.3	38	0	45.0	95.0	45.0	95.0	6.0	15.0
98	5	11/05/98	BB, SM, DC	BB,SM,DC	4.0	7.0	9.4	10.3	9.80	25.05	76.5	99.6	7.3	7.9	8	0	45.0	40.0	45.0	150.0	4.0	9.0
99	5	04/29/99	BB, SM, DC	BB, SM, DC	10.0	12.5	8.4	9.3	6.15	21.60	99.51	77.45	7.4	7.7	0	4	45.0	52.5	45.0	120.0	9.0	13.0
99	5	05/17/99	SM, DC	SM, DC	16.5	19	8.4	8.1	11.20	24.30	70.01	100.54	7.2	7.6	44	20	45	67.5	45	115.0	17.5	18.0
99	5	06/15/99	3B, SM, DC, NM	IB, SM, DC, NI	22.5	23.5	6.8	7.3	20.10	28.50	87.92	100.94	7.4	7.8	660	26	45.0	50.0	45.0	130.0	22.5	25.0
99	5	07/13/99	BB, SM, DC	BB, SM, DC	20.0	20.5	5.1	6.6	22.65	30.65	63.89	87.59	7.3	7.6	68	4	45.0	115.0	45.0	115.0	17.0	20.0
99	5	08/12/99	SM,DC,BB	BB,SM,DC	19.0	22.5	4.5	8.8	25.25	30.90	56.18	121.28	7.3	7.9	80	0	45.0	95.0	45.0	130.0	20.0	28.0
99	5	09/13/99	BB,DC	BB,DC	20.0	23.0	6.6	9.2	5.65	28.30	75.12	125.94	7.2	8.0	380	2	45.0	115.0	45.0	115.0	22.0	21.0
99	5	10/12/99	SM,DC	BB,SM,DC	11.0	13.0	7.5	10.0	10.80	25.55	72.71	110.88	7.6	8.2	20	2	45.0	85.0	45.0	130.0	10.0	15.0
99	5	11/09/99	BB,SM,DC	BB,SM,DC	3.0	6.5	9.6	10.7	4.10	20.05	73.50	98.44	7.5	8.4	50	10	45.0	65.0	45.0	130.0	1.0	11.0
00	5	04/19/00	BB, SM, DC	BB,SM,DC	8.00	7.00	9.40	10.40	4.20	16.00	81.73	94.82	7.40	7.80	16.00	10.00	45.00	55.00	45.00	105.00	4.00	6.00
00	5	05/18/00	BB,SM, DC	BB,SM,DC	15.00	17.00	7.50	8.20	1.00	17.85	75.13	94.18	7.40	7.80	24.00	2.00	45.00	55.00	45.00	85.00	17.00	22.00
00	5	06/19/00	NH, DC	NH, DC	20.50	23.50	5.60	7.30	3.10	19.10	63.49	95.57	7.20	7.60	120.00	120.00	50.00	57.50	50.00	75.00	20.00	22.50
00	5	07/17/00	BB, SM, DC	BB,SM,DC	18.00	20.00	5.90	7.10	0.30	20.60	62.70	87.88	7.40	7.80	120.00	190.00	45.00	75.00	45.00	75.00	16.00	17.00
00	5	08/15/00	BB, SM	BB, SM	19.00	20.50	6.90	6.80	0.60	18.00	74.94	83.69	7.40	7.60	380.00	46.00	45.00	85.00	45.00	90.00	19.00	21.50
00	5	09/14/00	BB, DC	BB, DC, SM	16.00	22.50	6.70	9.40	8.95	28.20	71.63	127.45	7.30	8.10	370.00	4.00	45.00	90.00	45.00	90.00	17.00	22.00
00	5	10/16/00	BB, SM, DC	BB, SM, DC	11.00	11.00	7.40	8.40	12.20	26.90	72.34	90.02	7.40	7.80	116.00	4.00	50.00	105.00	50.00	105.00	6.00	3.00
00	5	11/13/00	BB, SM, DC	BB, SM, DC	8.00	9.00	9.40	8.80	0.20	17.00	79.87	84.63	7.40	7.60	16.00	18.00	45.00	85.00	45.00	125.00	6.00	9.00
01	5	04/24/01	BB, SM, DC	BB, SM, DC	15.0	19.0	7.9	9.4	1.20	10.40	79.2	107.7	7.3	7.7	40	10	45.0	100.0	45.0	100.0	21.0	30.5
01	5	05/23/01	BB, SM, DC	BB, SM, DC	13.0	16.0	6.6	8.0	9.15	23.00	66.3	92.9	7.3	7.6	>120	2	45.0	60.0	45.0	90.0	13.0	16.0
01	5	06/21/01	BB, SM, DC	BB, SM, DC	22.5	21.0	6.2	6.7	0.95	7.60	72.2	78.6	7.2	7.4	0	0	45.0	30.0	45.0	80.0	21.0	18.0
01	5	07/23/01	BB, SM	SM, DC	25.0	28.0	7.0	8.3	15.80	27.30	92.4	123.1	7.6	7.9			45.0	100.0	45.0	105.0	30.5	32.0
01	5	08/20/01	BB, SM, DC	BB, SM, DC	23.0	24.0	4.5	7.4	22.90	29.30	59.7	103.7	7.2	7.7	0	12	45.0	115.0	45.0	115.0	20.0	24.0
01	5	09/18/00	BB, SM, DC	BB, SM, DC	16.0	20.0	7.1	8.7	26.25	30.85	84.1	114.6	7.4	7.7	74	6	45.0	115.0	45.0	115.0	16.0	27.0
01	5	10/17/01	BB, SM, DC	BB, SM, DC	12.0	14.0	7.3	8.6	16.14	28.85	74.7	99.5	7.4	7.8	>120	40	45.0	130.0	45.0	130.0	12.0	15.0
01	5	11/01/01	BB, SM, DC	BB, SM, DC	6.0	8.0	9.3	9.8	14.85	28.60	82.2	99.3	7.5	7.8	>120	0	45.0	90.0	45.0	90.0	Lost	12.0
2	5	04/29/02	BB, DC	BB, NH	7.0	7.5	10.2	9.4	0.20	14.40	84.6	85.9	7.1	7.4	52	18	45.0	35.0	45.0	125.0	5.0	9.0
02	5	05/28/02	BB, SM, DC	BB, SM, DC	17.5	18.5	5.8	7.6	4.20	18.15	62.3	90.1	7.1	7.4	340	10	45.0	60.0	45.0	90.0	21.0	22.0
02	5	06/25/02	BB, SM, DC	BB, SM, DC	19.0	23.0	6.2	7.4	1.30	18.20	67.6	95.5	7.1	7.6	102	8	45.0	47.5	45.0	85.0	24.0	26.0
02	5	07/25/02	BB, SM, DC	BB, SM, DC	21.0	24.0	7.0	8.5	21.60	28.50	88.8	118.6	7.3	7.8	48	4	45.0	85.0	45.0	85.0	21.0	22.5
02	5	08/26/02	BB, DC	BB, SM, DC	23.0	25.0	7.3	8.5	25.50	31.50	98.3	122.8	7.5	7.6	52	0	45.0	95.0	45.0	85.0	27.0	27.0
02	5	09/23/02	BB, SM, DC	BB, SM, DC	21.0	22.0	4.9	8.6	19.60	31.05	61.4	117.6	7.0	7.9	0	24	45.0	100.0	45.0	100.0	22.5	23.0
02	5	10/22/02	DC, SC	DC, SC, BB	5.5	9.0	8.5	9.2	11.1	28.6	72.4	95.4	6.9	7.6	86	0	45.0	80.0	45.0	85.0	3.0	11.5
02	5	11/06/02	BB, DC	BB, DC	5.0	6.0	9.9	10.6	8.5	26.4	82.0	101.0	7.1	7.6	150	2	45.0	130.0	45.0	160.0	7.0	8.5

Site 6 - Fox Pt

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L	WTEMP-H	DO-L	DO-H	SAL-L	SAL-H	SAT-L	SAT-H	pH-L	pH-H	FECAL-L	FECAL-H	LP-L	LP-H	DEPTH-L	DEPTH-H	ATEMP-L	ATEMP-H
					°C	°C	ppm	ppm	ppt	ppt	%	%			CFU/100ml	CFU/100ml	cm	cm	cm	cm	°C	°C
90	6	04/08/90			4.5	5.5	11.2	10.8	17.30	21.40	97.17	98.31	*	7.9	*	*	106.0	205.0	*	*	-2.0	12.0
90	6	04/25/90			9.0	8.0	6.5	10.0	20.30	26.70	63.83	100.07	7.7	7.8	*	*	105.0	200.0	*	*	9.0	11.0
90	6	05/09/90			11.0	14.0	7.7	8.9	21.20	24.80	79.55	100.30	6.8	7.8	*	*	102.0	205.0	*	*	11.0	20.0
90	6	05/24/90			10.5	10.5	8.8	9.0	20.30	24.40	89.39	93.84	7.5	7.7	*	*	125.0	205.0	*	*	5.5	12.5
90	6	06/08/90			15.5	13.5	8.0	8.1	24.00	27.30	92.51	91.78	7.9	*	*	*	115.0	220.0	*	*	15.0	20.5
90	6	06/21/90			15.0	15.5	7.8	8.2	26.50	29.30	90.69	98.03	8.0	8.1	*	*	95.0	190.0	*	*	15.0	16.5
90	6	07/07/90			18.0	17.0	6.8	7.4	28.00	28.60	84.70	90.74	*	7.9	*	*	140.0	235.0	*	*	18.0	21.0
90	6	07/20/90			21.0	16.5	7.2	7.8	27.40	32.30	94.54	96.97	7.6	7.8	*	*	*	295.0	*	*	22.0	32.0
90	6	08/06/90			*	20.0	*	7.2	*	31.90	*	95.42	*	7.8	*	*	*	285.0	*	*	*	*
90	6	08/20/90			20.0	18.0	6.8	7.2	28.60	31.20	88.30	91.50	7.6	8.1	*	*	*	295.0	*	*	15.0	19.0
90	6	09/04/90			20.0	18.0	6.8	6.8	26.90	30.40	87.39	85.98	7.8	7.8	*	*	125.0	290.0	*	*	13.0	19.0
90	6	09/18/90			16.0	15.0	7.4	6.8	29.80	32.30	89.65	82.07	7.6	7.7	*	*	100.0	300.0	*	*	8.0	13.0
90	6	10/04/90			14.0	13.5	7.6	7.4	30.80	32.90	89.01	86.97	7.7	7.9	*	*	*	330.0	*	*	9.0	22.0
90	6	10/18/90			15.0	14.0	7.6	7.2	25.90	30.40	88.04	84.10	7.7	7.7	*	*	110.0	300.0	*	*	19.0	24.5
90	6	11/02/90			9.0	11.0	8.9	8.3	20.20	29.50	87.34	90.48	7.4	7.9	*	*	130.0	330.0	*	*	3.5	14.5
91	6	04/13/91	BF JO BH JT	BF JO BH JT	8.0	8.5	10.3	10.9	20.50	25.40	98.95	109.37	7.6	7.4	*	*	90.0	*	*	*	5.0	17.0
91	6	04/27/91	DF BF BH JO ET	DF BF BH JO ET	11.0	10.5	9.8	9.9	18.70	23.50	99.67	102.63	7.8	*	*	*	70.0	160.0	*	*	*	*
91	6	05/13/91	BH JJ	BH JJ	14.5	13.0	8.5	8.8	18.30	23.30	92.99	96.20	7.3	7.6	*	*	75.0	180.0	*	*	12.0	30.0
91	6	05/28/91	BH JJ BF	BH JJ BF	17.0	16.0	7.7	7.9	25.10	28.00	92.38	94.62	7.5	7.7	*	*	115.0	190.0	*	*	27.0	37.0
91	6	06/11/91	BH DF BF	BH DF BF	18.0	17.0	7.4	8.2	26.90	26.90	91.54	99.48	7.8	7.9	*	*	105.0	225.0	*	*	23.0	30.0
91	6	06/25/91	BH JJ	BH JJ	19.0	17.0	8.3	8.5	29.30	31.50	106.23	106.16	7.6	7.8	*	*	100.0	266.0	*	*	18.0	32.0
91	6	07/10/91	BH CC JJ	BH CC JJ	18.5	17.0	7.5	8.8	30.60	31.00	95.85	109.56	7.7	7.7	*	*	85.0	280.0	*	*	16.0	28.0
91	6	07/25/91	BH DF BF	BH DF BF	22.0	20.0	7.2	7.8	31.80	32.90	98.90	104.03	7.8	*	*	*	120.0	275.0	*	*	20.0	30.0
91	6	08/08/91	BH DF BF	BH DF BF	20.0	19.0	7.0	7.4	31.40	31.60	92.48	96.08	7.8	7.9	*	*	100.0	265.0	*	*	17.0	31.0
91	6	08/24/91	BH DF BF	BH DF BF	20.0	20.0	6.0	6.2	15.30	19.20	72.03	76.11	7.3	7.5	*	*	105.0	140.0	*	*	17.0	22.0
91	6	09/07/91	CC RF DF	CC RF DF	18.0	17.0	7.0	6.1	24.40	30.60	85.28	75.75	7.5	7.3	*	*	100.0	240.0	*	*	14.0	24.0
91	6	09/22/91	BH BF	BH BF	16.0	17.0	7.3	7.1	27.20	29.50	86.99	87.56	7.4	7.8	*	*	100.0	310.0	*	*	6.0	17.0
91	6	10/07/91	BH BF	BH BF	14.0	13.0	8.1	7.9	20.40	26.50	88.82	88.13	7.5	7.6	*	*	110.0	205.0	*	*	7.0	13.0
91	6	10/22/91	BH	BH	11.0	12.0	8.3	6.9	22.00	27.40	86.18	75.80	7.6	7.6	*	*	*	*	*	*	8.0	16.0
91	6	11/06/91	PO BH	BH PO	9.0	11.0	9.1	9.0	25.80	30.00	92.61	98.44	7.5	7.6	*	*	155.0	290.0	*	*	1.0	9.0
92	6	04/17/92	no data/snow storm	BH	*	5.0	*	10.7	*	28.40	*	100.92	*	7.6	*	*	*	*	*	*	2.0	4.0
92	6	05/02/92	BH	BH	11.0	9.0	10.6	8.7	20.00	24.50	108.69	87.78	7.6	8.0	*	*	100.0	145.0	*	*	10.0	20.0
92	6	05/15/92	BH CC	BH CC	13.0	12.0	9.1	9.3	22.90	26.70	99.23	101.71	7.7	7.8	*	*	95.0	200.0	*	*	12.0	20.0
92	6	06/01/92	CC AR	AR Newington students	14.0	12.0	8.2	8.9	27.20	29.10	93.83	98.87	7.8	7.7	*	*	77.0	205.0	*	*	9.0	10.0
92	6	06/15/92	AR PO	AR PO	19.5	17.0	7.0	7.7	23.30	26.70	87.19	92.70	7.7	7.7	*	*	125.0	185.0	*	*	20.0	23.0
92	6	06/29/92	BH PO	LA MA BH	18.5	15.5	8.5	8.5	28.10	29.90	106.95	102.01	7.8	7.7	2	5	*	*	*	*	15.0	28.0
92	6	07/14/92	BH CS	BH PO	19.5	16.0	8.7	8.5	31.20	29.80	113.73	102.97	7.9	8.0	3	2	*	*	*	*	18.0	22.0
92	6	07/28/92	PO CS	PO CS	20.0	16.5	6.9	8.3	28.90	29.30	89.76	101.22	7.8	7.4	18	5	*	*	*	*	15.0	25.0
92	6	08/12/92	PO BH	PO BH	19.0	16.0	7.7	8.6	30.20	30.80	99.10	104.86	7.5	7.6	0	2	*	*	*	*	19.0	22.0
92	6	08/27/92	PO CS	PO DW	20.0	18.0	6.9	7.7	28.50	30.80	88.89	97.60	7.7	7.6	6	5	*	*	*	*	20.0	24.0
92	6	09/10/92	BH PO	BH PO	16.0	16.0	7.6	7.7	30.40	31.00	92.43	93.39	7.8	7.7	ntvd	5	*	*	*	*	20.0	27.0
92	6	09/26/92	BH PO	BH PO	14.0	13.0	8.1	8.1	30.20	32.70	94.49	94.10	7.8	7.8	5	2	*	*	*	*	10.0	15.0
92	6	10/11/92	BH	BH	13.0	12.0	9.0	8.1	30.40	31.80	102.98	91.61	7.4	7.7	28	11	*	*	*	*	12.0	17.0
92	6	10/25/92	PO BH	BH	14.0	9.0	8.1	7.8	30.20	31.40	94.49	82.43	7.8	7.7	*	30	*	*	*	*	10.0	8.0
92	6	11/09/92	JJ JJ	JJ JJ	5.0	6.0	11.6	9.1	25.60	16.20	107.31	81.08	6.5	6.7	20	0	*	*	*	*	-2.0	4.0
93	6	04/21/93	JP BP CC BT	JP BP CC	9.5	8.5	11.0	10.9	9.70	16.30	101.89	103.15	7.5	7.7	10	20	80.0	142.5	110.0	300.0	13.0	20.0
93	6	05/06/93	JP BP	JP BP BH	13.0	10.5	8.8	9.2	18.10	24.50	93.15	95.99	7.6	7.7	30	0	85.0	200.0	85.0	310.0	18.0	25.0
93	6	05/20/93	JP BH	JP BH	13.0	11.0	8.2	9.3	23.20	26.70	89.58	99.53	7.5	7.6	*	0	125.0	205.0	125.0	275.0	11.0	14.0
93	6	06/03/93	JP BP BH	JP BP BH	12.5	11.0	8.4	9.1	25.80	29.40	92.30	99.14	7.5	7.7	0	0	100.0	207.0	100.0	310.0	10.0	24.0
93	6	06/23/93	BH	NB CC ND BH	17.0	13.0	7.4	5.5	27.70	29.80	90.23	62.68	7.6	7.9	100	10	80.0	200.0	80.0	285.0	18.0	21.0
93	6	07/06/93	JP BP	JP BP	19.0	16.0	7.8	8.5	28.50	30.90	99.33	103.70	7.6	7.3	0	0	110.0	275.0	110.0	275.0	28.0	29.0
93	6	07/22/93	BH JP BP	BH JP BP	18.0	14.0	7.1	8.4	29.70	31.40	89.38	98.77	7.8	7.7	0	20	110.0	303.0	110.0	320.0	22.0	22.0
93	6	08/03/93	JP BP	JP BP	19.5	18.0	7.8	7.9	30.50	31.00	101.52	100.27	7.7	7.2	*	*	90.0	260.0	90.0	260.0	23.5	31.0
93	6	08/19/93	BH JP BP	BH JP BP	21.0	17.5	7.0	8.0	31.10	30.90	94.02	100.49	7.5	7.8	10	0	115.0	177.5	115.0	265.0	18.0	23.0
93	6	09/02/93	BP JP BH	BH JP	19.5	16.5	6.6	8.0	31.60	30.90	86.49	98.56	7.6	7.6	10	0	145.0	355.0	145.0	355.0	19.0	26.0
93	6	09/20/93	JB BP	JB BP	14.5	12.0	7.3	8.0	31.40	32.40	86.70	90.84	7.8	7.8	4	2	130.0	335.0	130.0	350.0	13.0	14.0
93	6	10/04/93	JB BP BH	JB BP	14.0	12.0	8.2	7.8	30.10	32.20	95.60	88.45	7.1	7.3	7	13	145.0	340.0	145.0	340.0	19.0	20.0
93	6	10/18/93	JB BP BH	JB BP	10.0	9.5	8.2	8.4	29.20	30.50	87.29	89.20	7.1	*	4	2	125.0	315.0	125.0	375.0	16.0	15.0
93	6	11/09/93	JP	JP	7.0	7.0	9.6	9.0	27.30	28.80	94.24	89.26	7.6	7.7	4	3	115.0	295.0	115.0	295.0	10.0	5.0
94	6	04/26/94	BH BT	BH BT	8.0	6.0	10.4	10.5	22.10	27.20	100.95	100.60	7.9	8.0	11	27	95.0	147.0	95.0	230.0	5.0	7.0
94	6	05/10/94	BH BT	BH BT	12.0	11.0	9.1	9.5	17.50	21.60	93.92	98.39	7.9	7.8	24	12	135.0	255.0	135.0	310.0	13.0	17.0
94	6	05/25/94	BH BT	BH BT	13.5	11.0	8.6	9.4	20.40	26.50	93.31	100.47	7.7	7.9	8	5	120.0	240.0	120.0	355.0	11.0	15.0
94	6	06/09/94	BT JJ	BT JJ	16.0	14.0	7.6	8.3	23.50	27.40	88.51	95.09	7.8	7.9	3	60	135.0	250.0	135.0	320.0	11.0	*
94	6	06/23/94	BH BT	BH BT	19.0	*	8.5	7.7	28.20	30.00	108.05	*	7.9	7.8	10	4	105.0	285.0	105.0	335.0	20.0	25.0

Site 6 - Fox Pt

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L	WTEMP-H	DO-L	DO-H	SAL-L	SAL-H	SAT-L	SAT-H	pH-L	pH-H	FECAL-L	FECAL-H	LP-L	LP-H	DEPTH-L	DEPTH-H	ATEMP-L	ATEMP-H
					°C	°C	ppm	ppm	ppt	ppt	%	%			CFU/100ml	CFU/100ml	cm	cm	cm	cm	°C	°C
94	6	07/11/94	BH JJ	JJ JJ BM	22.0	18.0	*	7.8	33.40	31.20	*	99.12	7.0	7.0	2	5	120.0	320.0	120.0	320.0	23.0	27.0
94	6	07/25/94	BH BT	BH BT	22.0	16.0	6.5	7.6	30.40	30.30	88.52	92.37	7.8	7.9	1	4	115.0	295.0	115.0	335.0	29.0	29.0
94	6	08/09/94	BH BT	BH BT	20.0	18.0	7.4	7.8	30.20	30.60	97.04	98.75	*	7.9	2	2	115.0	285.0	115.0	335.0	20.0	27.0
94	6	08/22/94	JJ	BH	18.0	15.0	7.5	5.8	29.50	31.10	94.29	69.45	7.8	7.8	4	3	145.0	215.0	145.0	360.0	19.0	22.0
94	6	09/07/94	BT BH	BT BH	15.0	15.5	7.8	7.4	30.00	31.30	92.74	89.61	7.9	7.8	1	3	120.0	275.0	120.0	355.0	15.0	24.0
94	6	09/21/94	BH BT	BH BT	16.5	15.0	8.4	7.6	30.30	31.10	103.09	91.01	8.1	7.9	0	1	110.0	225.0	110.0	225.0	18.0	21.0
94	6	10/06/94	BH BT	BH BP	12.0	12.0	8.8	7.0	26.40	29.10	96.05	77.76	8.5	7.8	0	0	125.0	270.0	125.0	355.0	6.0	13.0
94	6	10/20/94	BH	AR SL	12.0	12.0	9.8	8.4	29.10	30.60	108.87	94.24	7.9	8.1	1	1	160.0	295.0	160.0	355.0	14.0	15.0
94	6	11/07/94	BH	DW BP	10.0	10.0	7.7	8.4	28.70	30.00	81.69	89.90	7.6	7.8	7	4	85.0	210.0	105.0	330.0	8.0	8.0
95	6	04/18/95	BT BH	BT	7.5	6.0	10.7	10.7	22.20	27.65	102.71	102.84	7.8	7.4	1	5	BSV	BSV	105.0	330.0	12.0	11.0
95	6	05/01/95	BH BT	BH BT	9.0	8.0	10.2	10.7	24.75	28.55	103.09	108.42	7.9	8.0	2	1	BSV	BSV	115.0	315.0	10.0	9.0
95	6	05/15/95	BT AR AB	BT AB	11.0	8.5	8.7	9.8	25.80	29.90	92.57	101.35	7.7	7.8	0	6	BSV	245.0	120.0	250.0	10.0	8.0
95	6	05/30/95	BT JJ	BH JJ	15.0	13.0	8.0	8.9	24.60	27.60	91.92	99.99	7.6	7.1	2	2	*	100.0	130.0	305.0	19.0	24.0
95	6	06/13/95	BH BT	BH BT DG	16.0	13.0	7.3	8.6	27.40	29.40	87.10	97.76	7.5	7.8	2	6	BSV	225.0	130.0	330.0	16.0	17.0
95	6	06/27/95	BT BH	BT BH	20.0	16.0	8.0	8.6	28.20	29.40	103.63	103.92	7.8	7.9	2	5	BSV	295.0	130.0	310.0	18.0	19.0
95	6	07/12/95	BH BT	BH JJ	18.0	14.0	7.0	8.8	29.20	30.50	87.84	102.86	7.4	7.7	5	3	BSV	310.0	100.0	360.0	17.0	23.0
95	6	07/27/95	BT DB	BT DG	22.0	20.0	6.4	7.5	30.20	32.40	87.05	99.71	7.6	7.9	4	5	BSV	290.0	125.0	315.0	23.0	30.0
95	6	08/10/95	BT BH	BT BH	21.5	18.5	7.1	7.6	29.00	29.60	95.00	96.52	7.6	7.8	na	4	BSV	252.5	110.0	335.0	17.0	28.0
95	6	08/28/95	BT DG	BT BH	18.0	16.0	7.0	7.8	29.90	30.00	88.23	94.61	7.7	7.9	NV	NV	BSV	295.0	120.0	335.0	18.0	21.0
95	6	09/11/95	BT BH	BT BH	16.0	14.0	7.2	7.6	31.30	31.60	88.07	89.48	7.7	7.6	1	1	BSV	BSV	110.0	340.0	15.0	18.0
95	6	09/26/95	BT BH	BT BH	14.0	13.5	8.0	7.8	30.80	31.40	93.69	90.77	7.7	7.5	2	3	BSV	BSV	130.0	355.0	14.0	14.0
95	6	10/10/95	BH BT	BH BT	13.0	14.0	7.5	7.8	31.40	30.80	86.38	91.35	7.6	7.8	0	0	BSV	350.0	130.0	350.0	9.0	17.0
95	6	10/26/95	BT DG	BT BH DG	12.0	12.0	8.0	7.0	26.40	29.10	87.32	77.76	7.8	7.6	6	2	BSV	273.0	125.0	355.0	3.0	13.0
95	6	11/09/95	BT DG	BT DG	7.0	8.0	9.2	9.0	19.30	24.60	85.66	88.81	7.3	7.6	16	16	150.0	185.0	150.0	350.0	4.0	1.0
96	6	04/18/96	BT RB EB	BT	8.0	7.0	11.3	11.4	10.50	0.20	102.0	94.5	*	7.6	28	50	82.5	95.0	115.0	355.0	10.0	12.0
96	6	05/06/96	BT BH	BT BH	10	9	9.7	9.9	17.30	22.30	95.63	98.47	7.7	8	0	6	BSV	210.0	115.0	315.0	9	8
96	6	05/20/96	BT BH	BT BH	13	11	8.5	9.6	16.00	21.70	88.84	99.49	7.6	7.8	3	*	82.0	202.5	150.0	340.0	18	30
96	6	06/03/96	BT BH	BH BT	16	12	8	9.1	21.80	25.50	92.2	98.75	7.7	8	0	3	BSV	105.0	100.0	330.0	18	16
96	6	06/17/96	BT RB EB	BT DG RB EB	19	16	7.5	8.3	25.90	29.70	94	100.46	8	8	1	2	BSV	272.5	140.0	320.0	22	26
96	6	07/01/96	*	BH BT	*	14	*	8.5	*	28.60	*	98.14	*	8.1	*	5	*	225.0	*	340.0	*	27
96	6	07/15/96	BH BT	BH BT	20	18.5	7.2	7.5	24.00	21.80	90.92	90.82	7.8	7.8	80	74	BSV	172.5	135.0	330.0	19	18
96	6	07/30/96	BT JJ JJ	BT DG	18	17.5	7.5	8.2	25.30	29.20	91.87	101.91	7.9	7.9	4	6	BSV	227.0	110.0	330.0	16	*
96	6	08/14/96	BH	BH	20	18	7.3	7.7	28.50	27.60	99.92	95.67	7.7	7.8	3	2	BSV	280.0	140.0	315.0	16	31
96	6	08/29/96	BH BT	BT DG	19	18	6.9	7.7	30.50	31.20	88.97	97.85	7.5	7.8	0	4	BSV	248.0	110.0	355.0	15	27
96	6	09/16/96	BT BH	BT BH HR DR	17	16	6.9	7.2	29.00	30.80	84.82	87.79	7.6	7.8	2	3	BSV	245.0	160.0	355.0	15	18
96	6	09/30/96	BH	BH	14	13	7.8	7.4	28.50	30.20	90	84.56	7.6	7.6	1	1	BSV	287.0	125.0	335.0	16	17
96	6	10/15/96	BH	JF DE	11	10	4.9	8.8	28.20	30.00	52.96	94.18	7.4	7.6	1	0	BSV	220.0	120.0	330.0	10	9
96	6	10/29/96	BH BT	BH	10	10	8.2	8.3	12.00	18.00	78.27	82.18	6.6	*	12	7	57.0	97.0	150.0	360.0	8	10
96	6	11/06/96	BH	BT	8	9	9.1	8.7	16.40	22.30	85.18	86.51	7.3	7.6	9	12	135.0	205.0	145.0	320.0	9	10
97	6	04/23/97	BH, NC, PH	BH, NC, PH	8.0	9.0	10.3	10.2	7.40	15.10	91.3	96.9	7.8	7.8	6	2	95.0	145.0	185.0	280.0	13.0	
97	6	05/06/97	PH, NC, BH	BH, PH, NC	10.0	8.0	9.6	9.7	15.90	23.60	93.8	95.1	7.8	7.8	1	1	85.0	155.0	110.0	430.0	10.0	10.0
97	6	05/22/97	BH, PH, NC	BH, PH	11.5	10.0	9.1	9.4	20.10	23.80	94.4	96.6	7.9	7.8	*	*	110.0	175.0	200.0	430.0	12.0	16.0
97	6	06/05/97	BH, PH, NC	PH, BH, NC	14.0	14.0	10.1	9.4	24.20	27.55	113.4	107.8	8.1	8.1	*	*	140.0	265.0	210.0	365.0	12.0	15.0
97	6	06/23/97	BH, PH, NC	BH, PH, NC	20.0	16.0	7.6	8.6	27.30	28.20	97.9	103.1	8.0	8.0	3	1	107.5	210.0	185.0	325.0	22.0	29.0
97	6	07/07/97	NC, PH, AM	NC, PH	19.5	16.5	7.4	8.7	29.30	30.15	95.6	106.7	7.8	7.5	0	5	112.0	240.0	115.0	445.0	28.0	25.0
97	6	07/21/97	BH, NC, PH	BH, NC, PH	19.0	15.5	7.7	8.1	25.90	28.70	96.5	96.5	7.5	7.8	0	5	140.0	255.0	155.0	410.0	18.0	18.0
97	6	08/04/97	NC, PH	NC, PH	19.0	18.0	8.8	7.7	29.80	29.50	113.0	96.8	8.1	8.1	0	0	130.0	315.0	160.0	320.0	18.0	20.0
97	6	08/19/97	BH, NC, PH	BH, NC, PH	19.0	15.0	7.4	8.0	30.50	30.65	95.4	95.5	8.0	8.0	3	1	160.0	300.0	160.0	385.0	15.0	20.0
97	6	09/03/97	BH	BH	19.0	17.0	7.1	6.2	28.55	30.30	90.4	76.8	7.9	7.9	0	2	165.0	353.0	165.0	380.0	16.0	19.0
97	6	09/18/97	NC, PH, BH	NC, PH	18.5	18.0	8.0	7.5	29.50	28.60	101.5	93.8	7.8	8.1	*	*	150.0	287.5	150.0	400.0	17.0	24.0
97	6	10/02/97	NC, BH, PH	PH, NC, BH	13.0	12.0	8.3	8.1	29.40	29.40	94.3	90.2	7.9	*	4	4	185.0	365.0	185.0	365.0	7.0	12.0
97	6	10/17/97	PH, NC, BH, JK, LK	BH, NC, PH	11.0	12.0	8.5	8.6	30.85	31.20	93.5	96.9	8.0	8.0	1	3	190.0	372.5	190.0	380.0	4.0	13.0
97	6	11/03/97	BH, NC, PH	NC, PH, BH	10.0	10.0	8.9	9.0	26.90	27.40	93.3	94.7	7.9	8.0	34	*	150.0	175.0	260.0	430.0	9.0	9.0
98	6	05/12/98	PH, NC, BB	PH, CC, MA	11.0	14.0	10.3	9.2	13.50	15.85	101.5	98.2	7.7	7.7	16	2	95.0	90.0	280.0	220.0	11.0	12.0
98	6	06/10/98	BH, NC, PH	BH, NC, PH	14.0	12.0	8.8	9.4	23.90	27.50	98.6	103.3	8.0	8.0	1	1	180.0	225.0	235.0	420.0	18.0	20.0
98	6	07/09/98	BH,NC,PH	NC,BH,PH	20.0	20.0	6.7	7.3	16.00	21.20	80.8	90.7	7.0	7.0	0	53	150.0	175.0	290.0	480.0	18.0	26.0
98	6	08/10/98	PH,NC,BH	PH,BH,NC	22.0	18.0	7.4	7.6	28.40	28.90	99.6	95.2	7.9		0	1	170.0	240.0	270.0	480.0	26.0	28.0
98	6	09/09/98	PH,NC,BH	NC,PH	18.0	16.0	6.8	7.4	29.50	31.75	85.5	90.8	7.9	7.9	1	0	132.5	330.0	295.0	500.0	18.0	17.5
98	6	10/07/98	BH, NC,PH	BH, NC, PH	11.0	10.0	7.4	7.6	30.00	31.40	80.9	82.1	8.0	7.9	1	0	270.0	305.0	270.0	510.0	5.0	13.0
98	6	11/05/98	BH	AB,JM	7.0	8.0	8.1	8.4	27.00	29.80	79.4	85.8	7.8	7.8	0	0	147.5	345.0	280.0	410.0	3.0	8.0
99	6	04/29/99	PH, NC	PH, NC	10.0	10.0	9.9	10.0	24.80	30.20	102.36	107.16	7.9	7.9	0	1	172.5	240.0	285.0	470.0	8.0	14.0
99	6	05/17/99	BH, NC, PH	BH, NC, PH	14.0	14.0	8.5	9.0	25.90	28.50	96.46	103.84	7.8	8.0	3	0	185.0	215.0	245.0	475.0	14.0	12.0
99	6	06/15/99	BH, NC, PH	BH, NC, PH	19.0	17.0	7.5	7.6	28.50	28.30	95.51	93.02	7.8	7.8	1	1	165.0	190.0	255.0	485.0	25.0	24.0
99	6	07/13/99	JJ, PM	JJ, CH	19.0	17.0	7.3	7.7	29.90	31.90	93.78	96.42	7.8	7.9	0	0	185.0	227.5	425.0	675.0	17.0	23.0

Site 6 - Fox Pt

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L	WTEMP-H	DO-L	DO-H	SAL-L	SAL-H	SAT-L	SAT-H	pH-L	pH-H	FECAL-L	FECAL-H	LP-L	LP-H	DEPTH-L	DEPTH-H	ATEMP-L	ATEMP-H
					°C	°C	ppm	ppm	ppt	ppt	%	%			CFU/100ml	CFU/100ml	cm	cm	cm	cm	°C	°C
99	6	08/12/99	BH, PH, NC	BH, PH, NC	18.0	17.0	7.6	7.9	30.60	32.25	96.22	99.15	8.9	*	0	0	222.5	262.5	545.0	LINE NOT LONG ENOUGH	20.0	25.0
99	6	09/13/99	BH,JJ,JJ	BH,JJ,JJ	23.0	18.0	6.9	7.3	*	29.20	*	91.61	7.8	8.2	8	9	212.0	235.0	555.0	765.0	21.0	20.0
99	6	10/12/99	BH, NC	BH,NC	13.0	12.0	8.1	7.3	27.15	30.00	90.74	81.58	7.9	7.8	4	0	285.0	290.0	545.0	750.0	8.0	13.0
99	6	11/09/99	BH, NC	BH,NC	7.0	8.0	9.2	9.6	25.70	27.95	89.34	96.88			11	8	215.0	295.0	565.0	LOST	0.0	6.0
00	6	04/19/00	DY, NC, BH	BH	7.00	7.00	10.70	11.10	21.65	24.70	101.16	107.08	7.80	8.00	0.00	0.00	87.50	137.50	545.00	770.00	4.00	5.00
00	6	05/18/00	BH,SS	BH, CD	14.00	13.00	9.10	9.20	20.40	24.20	99.79	101.14	7.60	7.80	2.00	1.00	142.00	200.00	540.00	770.00	25.00	19.00
00	6	06/19/00	MW, SW, SW, BH, SS	BH, SS	18.00	18.00	7.70	8.10	24.40	26.20	93.81	99.77	7.60	7.80	3.00	2.00	140.00	187.00	250.00	730.00	21.00	21.00
00	6	07/17/00	MW, SW, SW, BH	MW, SW, SW, SS	19.00	18.00	7.50	8.10	29.20	29.20	95.93	101.65	7.60	7.80	3.00	13.00	153.00	253.00	565.00	725.00	15.00	18.00
00	6	08/15/00	MW, SW, SW, BH	MW, SW, SW, SS	20.00	19.50	6.40	6.80	26.30	28.50	81.95	87.41	7.70	7.20	3.00	4.00	155.00	240.00	555.00	745.00	15.00	20.00
00	6	09/14/00	BH, MW, SW, SW	BH	19.00	17.50	7.60	7.40	30.10	29.90	97.75	92.37	7.70	7.30	0.00	0.00	232.00	267.00	550.00	880.00	16.00	22.00
00	6	10/16/00	BH, MW, SW, SW	MW, SW, SW, D DP	12.00	12.00	8.40	8.20	28.40	30.00	92.89	91.63	7.10	7.60	3.00	11.00	215.00	257.00	565.00	750.00	5.00	3.00
00	6	11/13/00	MW, SW, SW, BH, SS	SW, SW, MW, SM	9.00	10.00	9.20	9.00	24.80	22.30	93.01	91.57	7.50	7.50	1.00	21.00	260.00	275.00	545.00	785.00	2.00	10.00
01	6	04/24/01	MW, SW, SW, BH	MW, SW, SW	12.0	11.0	9.8	10.3	12.30	19.10	98.0	105.0	7.7	7.9	0	2	198.0	190.0	565.0	760.0	15.0	30.0
01	6	05/23/01	MW, SW, SW, BH	MW, SW, SW, BH	14.0	13.0	7.8	8.3	25.60	27.45	88.3	93.2	7.6	7.9	0	3	130.0	215.0	550.0	745.0	13.0	16.0
01	6	06/21/01	MW, SW, SW, BH	MW, SW, SW, BH	21.0	18.0	6.8	7.5	22.60	24.55	86.8	91.5	7.6	7.5	4	14	107.0	140.0	515.0	725.0	17.0	17.0
01	6	07/23/01	MW, SW, SW	MW, SW	21.0	17.0	8.7	8.5	27.80	29.50	114.5	104.8	7.7	7.6			138.0	247.5	490.0	755.0	28.0	29.0
01	6	08/20/01	MW, SW, SW, BH	BH	20.0	16.0	7.2	7.7	30.50	30.30	94.6	93.6	7.8	7.8	2	*	200.0	242.0	515.0	780.0	20.0	22.0
01	6	09/18/01	MW, SW, SW, BH	MW, SW, SW, BH	16.0	16.0	8.0	7.9	32.90	33.45	98.9	98.0	7.8	7.9	1	0	255.0	290.0	530.0	795.0	16.0	22.0
01	6	10/17/01	MW, SW, SW, BH	MW, SW, SW, BH	13.0	13.0	8.1	8.5	32.60	32.50	94.0	98.6	7.8	7.8	*	8	270.0	275.0	570.0	760.0	14.0	11.0
01	6	11/01/01	MW, BH	MW, BH, SW, SW, TK	9.0	9.5	9.0	8.5	30.90	31.40	94.8	90.8	7.9	7.8	1	1	310.0	370.0	555.0	770.0	8.0	12.0
02	6	04/29/02	MW, BH, BM	MW, BH, BM	8.0	7.0	9.6	10.3	24.70	27.70	94.8	101.4	7.6	7.8	1	1	110.0	192.0	455.0	675.0	3.0	5.0
02	6	05/28/02	MW, SW, SW, BM	MW, SW, SW	14.0	13.0	8.2	8.5	22.65	26.25	91.2	94.7	7.4	7.7	1	0	250.0	225.0	540.0	730.0	16.0	18.0
02	6	06/25/02	MW, SW, BH, SW	MW, SW, BH, SW	19.0	16.0	6.8	7.2	22.40	25.10	83.5	84.7	7.5	7.6	3	0	125.0	215.0	540.0	735.0	20.0	*
02	6	07/25/02	BH, BM	BH, BM	20.0	18.0	7.2	7.6	30.40	31.50	94.5	96.8	7.7	7.7	0	0	147.0	217.0	545.0	720.0	16.1	22.0
02	6	08/26/02	BH, BM	BH, BM	20.0	19.5	6.7	6.8	32.70	32.50	89.2	89.6	7.6	7.8	0	0	237.0	303.0	565.0	760.0	33.0	27.0
02	6	09/23/02	BH, MW, SW, SW	MW, BH	20.0	17.0	7.3	7.2	31.90	32.70	96.7	90.6	7.7	7.8	3	14	235.0	302.5	460.0	760.0	23.0	24.0
02	6	10/22/02	SW,SW,MW,BH	BH,BT	11.0	11.0	8.2	8.0	31.3	31.7	90.5	88.5	7.6	7.6	0	0	257.0	300.0	545.0	765.0	0.0	10.0
02	6	11/06/02	SW,SW,MW,BH	BH,BT	8.0	8.0	9.2	8.9	29.8	31.3	94.0	91.9	7.5	7.6	3	2	242.0	277.0	550.0	835.0	7.0	9.0

Site 7 - Cedar Pt

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L	WTEMP-H	DO-L	DO-H	SAL-L	SAL-H	SAT-L	SAT-H	pH-L	pH-H	FECAL-L	FECAL-H	LP-L	LP-H	DEPTH-L	DEPTH-H	ATEMP-L	ATEMP-H
					°C	°C	ppm	ppm	ppt	ppt	%	%			CFU/100ml	CFU/100ml	cm	cm	cm	cm	°C	°C
90	7	06/06/90			10.0	12.0	8.80	8.60	16.50	20.10	86.33	90.20	7.5	7.7	*	*	*	370	*	*	9.5	15.0
90	7	05/24/90			17.0	17.0	7.50	8.50	23.90	*	89.32	*	7.8	8.1	*	*	175.0	*	*	*	15.0	18.0
90	7	06/21/90			19.0	16.0	8.20	6.80	26.70	28.20	103.28	81.55	7.9	7.8	*	*	205.0	400.0	*	*	16.0	16.5
90	7	07/07/90			19.0	19.0	6.80	6.90	28.10	28.20	86.39	87.71	7.7	7.8	*	*	130.0	195.0	*	*	16.0	23.5
90	7	07/21/90			20.0	18.0	7.50	6.60	*	31.40	*	83.98	7.6	7.8	*	*	140.0	235.0	*	*	23.0	28.0
90	7	08/06/90			22.5	20.5	6.30	6.90	30.40	31.50	86.56	92.06	7.9	7.9	*	*	135.0	245.0	*	*	22.5	23.0
90	7	08/20/90			19.0	19.0	7.10	6.00	30.50	29.80	91.55	77.03	7.9	7.9	*	*	*	240.0	*	*	13.0	23.0
90	7	09/04/90			19.0	20.0	6.25	7.12	25.60	27.80	78.19	92.00	7.9	7.9	*	*	*	215.0	*	*	13.0	20.0
90	7	09/18/90			15.0	15.0	7.60	5.70	31.10	30.40	91.01	67.95	7.7	7.8	*	*	175.0	270.0	*	*	6.0	14.0
90	7	10/04/90			14.0	14.5	*	5.30	30.40	31.20	*	62.87	7.7	7.7	*	*	120.0	250.0	*	*	9.0	17.5
90	7	10/18/90			13.0	14.5	6.60	6.60	23.50	26.70	72.24	76.05	7.5	7.6	*	*	150.0	195.0	*	*	3.5	18.0
90	7	11/02/90			8.0	10.5	9.20	7.80	18.20	25.10	87.10	81.70	7.7	7.9	*	*	*	290.0	*	*	11.0	15.0
91	7	04/14/91	MG MR IL DL	MG MR IL DL	7.5	9.0	10.90	10.60	22.60	25.00	104.91	107.31	7.9	7.9	*	*	*	260.0	*	*	2.0	14.0
91	7	04/28/91	MG MR IL	MG MR IL	12.0	11.0	9.10	9.25	18.80	22.00	94.68	96.05	7.6	7.7	*	*	100.0	135.0	*	*	5.0	18.0
91	7	05/14/91	IL MR	IL MR	14.0	13.5	7.85	8.30	19.10	23.30	85.40	91.69	7.7	7.7	*	*	95.0	165.0	*	*	13.0	27.0
91	7	05/28/91	DL MR ML IL	DL MR ML IL	16.5	16.5	8.34	8.50	25.00	28.60	99.01	103.20	7.1	*	*	*	*	260.0	*	*	15.0	31.0
91	7	06/11/91	IL MR MG	IL MR MG	19.0	18.0	7.30	6.18	27.70	29.40	92.51	77.65	7.7	7.7	*	*	165.0	250.0	*	*	19.5	29.0
91	7	06/25/91	DL IL MR ML	DL IL MR ML	18.5	17.5	7.00	7.30	29.30	31.20	88.74	91.88	7.8	7.2	*	*	210.0	325.0	*	*	15.0	22.0
91	7	07/11/91	MR MG IL ML	MR MG IL ML	18.0	17.0	6.80	7.40	28.60	31.20	85.01	92.25	7.7	7.5	*	*	175.0	290.0	*	*	18.0	29.5
91	7	07/26/91	MR MG IL ML	MR MG IL ML	21.5	20.0	7.00	7.60	31.50	33.30	95.11	101.62	7.6	7.6	*	*	165.0	285.0	*	*	22.0	24.0
91	7	08/09/91	MR MG IL ML	MR MG IL ML	19.5	19.0	7.00	7.30	31.80	31.20	91.85	94.55	7.4	7.5	*	*	175.0	255.0	*	*	18.0	23.0
91	7	08/25/91	MR MG DL	MR MG DL	20.0	21.0	5.80	6.40	16.60	19.60	70.15	80.25	6.9	7.3	*	*	120.0	145.0	*	*	20.0	21.0
91	7	09/10/91	MG JG	MG JG	18.0	18.0	7.00	7.20	26.70	28.50	86.49	89.96	7.0	6.8	*	*	180.0	270.0	*	*	14.0	30.0
91	7	09/22/91	MR RR DL	MR RR DL	14.0	17.0	7.00	7.00	27.40	23.40	80.20	83.12	7.0	7.1	*	*	255.0	340.0	*	*	2.0	22.0
91	7	10/07/91	MR IL DL	MR IL DL	13.0	13.0	7.20	7.40	21.30	25.60	77.73	82.08	7.1	7.2	*	*	140.0	200.0	*	*	4.5	19.0
91	7	10/23/91	IL MR	IL MR	10.0	12.0	8.45	8.45	22.40	26.00	86.03	91.99	7.1	7.3	*	*	225.0	335.0	*	*	3.0	13.0
91	7	11/06/91	IL MR	IL MR	8.0	10.0	8.50	8.30	25.80	28.80	84.55	88.11	7.2	7.3	*	*	200.0	265.0	*	*	-2.0	11.0
92	7	04/16/92	IL MR	MR MG	6.5	7.0	10.90	10.80	22.50	25.30	102.39	104.60	8.0	7.6	*	*	*	250.0	*	*	12.0	11.0
92	7	05/02/92	MR MG	IL MG	11.0	9.5	11.60	10.50	20.60	23.85	119.39	106.69	7.9	8.0	*	*	90.0	155.0	*	*	12.0	19.5
92	7	05/15/92	MR IL	MR MG	12.0	12.5	8.60	8.90	23.40	24.50	92.08	96.99	7.9	7.9	*	*	100.0	175.0	*	*	13.0	22.0
92	7	05/31/92	DL IL	MR MG	14.5	13.0	8.00	8.60	27.80	29.00	92.83	97.50	7.6	7.9	*	*	150.0	210.0	*	*	16.0	16.0
92	7	06/14/92	IL MG	IL MG	18.5	18.0	7.15	7.75	23.10	24.50	87.26	94.47	7.8	7.8	*	*	135.0	170.0	*	*	19.5	34.0
92	7	06/30/92	MR MG	MR MG	18.0	16.0	7.70	9.10	28.80	30.70	96.39	110.88	7.8	7.7	*	*	160.0	220.0	*	*	20.0	37.0
92	7	07/13/92	MR MG	MR RR	18.0	18.0	8.60	9.00	29.50	30.20	108.12	113.65	8.0	7.7	8	1	160.0	230.0	*	*	20.0	32.0
92	7	07/28/92	MR MG	IL MR	19.0	17.0	7.10	7.30	29.30	30.20	90.87	90.42	7.7	7.7	5	8	190.0	275.0	*	*	14.0	32.0
92	7	08/13/92	IL NR	IL NR	17.5	17.0	7.10	7.70	29.90	30.60	88.63	95.62	7.9	7.8	6	0	202.0	323.0	*	*	17.5	25.0
92	7	08/27/92	IL MG	MR DL	21.0	18.0	7.40	8.00	28.90	30.20	98.06	101.02	7.8	7.7	6	6	208.0	292.5	*	*	21.0	29.0
92	7	09/10/92	IL MR	IL MG	17.0	17.0	7.60	7.50	29.80	31.20	93.90	93.49	7.6	7.7	ntvd	13	220.0	295.0	*	*	20.0	29.5
92	7	09/25/92	IL MG	IL MR	14.0	13.0	7.90	8.30	30.60	31.10	92.40	95.41	7.7	7.5	3	4	105.0	365.0	*	*	3.0	12.0
92	7	10/10/92	MG MR	IL DL	13.0	13.0	8.20	8.00	30.20	31.50	93.70	92.20	7.8	7.8	44	8	295.0	445.0	*	*	13.0	20.0
92	7	10/25/92	IL MR	IL MG	10.0	9.0	8.25	7.90	28.80	30.50	87.58	82.97	7.7	7.8	10	70	160.0	345.0	*	*	6.0	13.0
92	7	11/09/92		IL DL	*	7.5	*	8.80	*	29.00	*	88.41	*	7.8	*	10	*	500.0	*	*	*	9.5
93	7	04/21/93	IL MR	IL AR	9.0	9.5	10.70	10.90	9.70	13.90	98.42	104.03	7.2	7.4	*	100	30.0	155.0	30.0	210.0	19.0	23.0
93	7	05/06/93	EL MR	EL DL	13.5	11.0	7.95	9.15	17.00	23.60	84.49	95.98	7.2	7.4	0	10	75.0	232.5	75.0	295.0	18.0	26.5
93	7	05/20/93	EL MR MB	MR EL MB	13.5	13.5	8.00	8.40	23.60	26.20	88.54	94.51	7.6	7.4	0	100	117.0	200.0	520.0	630.0	12.0	20.0
93	7	06/03/93	EL MR	MR MB	12.5	13.5	8.20	9.40	27.20	30.10	90.92	108.45	7.6	7.6	0	0	105.0	115.0	455.0	*	9.5	29.0
93	7	06/23/93	MR EL MB	EL MR	17.5	16.0	7.30	8.15	28.20	29.50	90.15	98.55	7.5	7.5	10	0	115.0	285.0	565.0	630.0	20.5	26.5
93	7	07/06/93	MR MB AB	EL MB	19.5	18.0	7.50	8.05	30.30	30.30	97.49	101.72	7.3	7.1	0	200	72.5	330.0	435.0	630.0	26.0	35.0
93	7	07/22/93	AB MB	IL AB	18.5	16.5	6.80	8.70	29.90	30.90	86.52	107.18	7.6	7.8	2500	10	135.0	260.0	540.0	650.0	22.0	24.0
93	7	08/03/93	IL MB	IL MB AB	19.5	19.5	7.20	7.55	30.10	30.70	93.48	98.39	7.9	6.5	*	*	212.5	407.0	475.0	630.0	24.5	32.0
93	7	08/19/93	MB BB MR	MR	20.0	19.0	6.90	7.00	30.60	30.50	90.71	90.26	7.6	7.6	10	40	180.0	350.0	495.0	630.0	21.0	29.0
93	7	09/02/93	AB BB	EL MR	21.0	18.0	6.80	7.25	33.10	31.50	92.48	92.31	7.4	7.3	0	30	227.0	435.0	465.0	640.0	23.0	22.0
93	7	09/20/93	IL MR	IL DL	15.0	12.0	7.40	*	31.40	31.10	88.79	*	7.2	7.1	30	90	290.0	462.0	525.0	640.0	11.0	18.0
93	7	10/04/93	DL BB	IL AB	14.0	14.0	7.25	7.40	31.40	31.60	85.24	87.12	7.5	7.7	*	0	220.0	440.0	395.0	640.0	15.0	22.0
93	7	10/18/93	AB MB BB	AB MB	10.5	11.0	8.70	8.70	29.20	30.70	93.62	95.61	7.0	6.7	0	0	327.5	420.0	640.0	640.0	14.0	20.0
93	7	11/09/93	BB AB MR	BB AB	7.0	6.5	9.60	8.60	26.20	29.80	93.54	84.88	5.6	6.3	0	0	362.5	570.0	470.0	640.0	11.0	0.0
94	7	04/26/94	MR AB BB	MR BB AB	7.0	6.0	9.10	9.85	20.60	25.70	85.44	93.42	8.3	7.8	77	25	22.0	195.0	22.0	245.0	4.0	4.0
94	7	05/10/94	IL BB	IL BB	12.0	12.0	9.10	9.10	17.50	17.50	93.92	93.92	7.8	7.8	19	8	80.0	218.5	80.0	275.0	13.0	17.0

Site 7 - Cedar Pt

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L °C	WTEMP-H °C	DO-L ppm	DO-H ppm	SAL-L ppt	SAL-H ppt	SAT-L %	SAT-H %	pH-L	pH-H	FECAL-L CFU/100ml	FECAL-H CFU/100ml	LP-L cm	LP-H cm	DEPTH-L cm	DEPTH-H cm	ATEMP-L °C	ATEMP-H °C
94	7	05/25/94	BB AB	IL AB BB	13.0	12.0	7.90	*	20.30	25.50	84.76	*	6.9	7.8	*	7	*	232.5	*	310.0	11.0	16.0
94	7	06/09/94	EL BB	IL BB	16.0	16.0	7.90	7.80	23.50	26.10	92.00	92.31	7.8	7.8	3	TNTC	90.0	175.0	90.0	175.0	16.0	30.0
94	7	06/23/94	IL AB BB	IL AB BB	18.0	16.0	7.10	7.85	27.90	29.00	88.38	94.62	7.6	7.8	730	180	70.0	290.0	70.0	290.0	20.0	30.0
94	7	07/11/94	AB BB	AB	20.5	19.0	7.20	7.25	30.00	30.20	95.17	93.31	7.7	7.8	4	5	88.0	185.0	88.0	185.0	20.0	32.0
94	7	07/25/94	BB AB	AB IL	21.0	20.0	9.40	7.00	30.20	31.50	125.56	92.54	7.3	7.9	4	4	90.0	250.0	90.0	300.0	24.0	32.0
94	7	08/09/94	IL BB	IL AB	19.5	18.5	7.60	7.90	29.60	32.50	98.36	102.18	7.9	7.9	0	1	85.0	277.0	85.0	310.0	21.0	30.0
94	7	08/22/94	IL AB	AB BB	18.0	16.0	6.80	6.90	30.60	33.90	86.09	85.84	7.7	7.6	5	TNTC	95.0	300.0	95.0	380.0	19.0	22.0
94	7	09/07/94	AB BB	AB	15.0	16.0	7.50	7.30	29.80	31.90	89.06	89.64	7.4	7.2	4	5	91.0	267.0	91.0	340.0	13.0	27.0
94	7	09/21/94	AB BB	AB	16.0	16.0	8.70	7.90	30.00	31.60	105.53	96.82	7.4	7.2	0	*	85.0	300.0	85.0	300.0	17.0	28.0
94	7	10/06/94	EL RB	EL RB	12.0	12.5	8.65	7.40	26.50	29.40	94.48	83.23	7.9	8.0	*	3	81.0	295.0	81.0	335.0	5.0	17.0
94	7	10/20/94	EL AB	EL AB	12.0	12.0	8.75	8.50	31.70	30.80	98.89	95.49	8.0	7.4	5	1	115.0	302.5	115.0	340.0	14.0	15.5
94	7	11/07/94	EL BB	EL AB	11.0	11.0	8.20	8.10	28.10	31.50	88.57	89.49	7.9	7.8	81	11	78.0	280.0	78.0	300.0	5.0	12.0
95	7	04/18/95	RDB NHW SET	TAB DJ CG	7.0	7.0	10.60	10.60	22.75	26.45	100.94	103.46	7.9	7.9	0	0	*	300.0	75.0	300.0	13.0	14.0
95	7	05/01/95	AB LC JL	BB AB EB BC	8.5	8.5	8.90	10.10	24.10	27.30	88.54	102.63	7.3	7.1	0	NV	*	*	65.0	260.0	8.0	11.0
95	7	05/15/95	EL RJ ST	EL ET	10.0	9.0	8.40	8.30	25.70	28.60	87.37	86.06	*	7.9	16	4	60.0	207.5	60.0	285.0	12.0	9.5
95	7	05/30/95	EL CG CJ	EL ET	14.5	14.5	8.70	8.00	25.40	28.00	99.43	92.95	7.7	7.9	NV	88	70.0	250.0	70.0	250.0	21.0	25.5
95	7	06/13/95	BB AB	BB AB	15.5	14.5	7.10	8.00	26.60	29.20	83.44	93.67	7.5	7.7	4	17	100.0	220.0	100.0	315.0	17.0	18.0
95	7	06/27/95	AB BB	AB BB	18.5	17.5	8.50	8.20	28.80	29.20	107.42	101.91	7.5	7.9	2	10	115.0	295.0	115	295.0	17.0	23.0
95	7	07/12/95	AB BB	AB BB	16.5	15.0	8.00	8.70	29.50	29.80	97.68	103.31	7.3	7.9	6	17	*	237.5	100.0	320.0	16.0	27.0
95	7	07/27/95	BB CB	AB BB	21.0	20.0	7.30	7.10	29.60	29.10	97.15	92.48	7.8	7.9	TNTC	29	*	287.5	112.0	295.0	23.0	34.0
95	7	08/10/95	AB BB	AB BB EB	20.0	19.5	6.90	7.30	28.30	29.30	89.43	94.31	7.8	7.8	1	0	BSV	292.5	110.0	315.0	16.0	30.0
95	7	08/28/95	BB IL	RB AB	17.5	16.0	7.20	7.80	30.45	30.15	90.19	94.71	7.8	7.9	NV	NV	BSV	BSV	115.0	315.0	17.5	25.0
95	7	09/11/95	RB EL	AB SS	15.0	16.5	7.20	8.40	30.60	31.90	85.94	104.15	7.8	7.8	8	0	BSV	BSV	103.0	320.0	13.0	22.0
95	7	09/26/95	RB EL	EL RB	13.5	13.0	7.60	7.80	30.20	30.60	87.74	89.37	7.8	7.8	5	2	BSV	315.0	120.0	345.0	14.0	15.0
95	7	10/10/95	RB EL	RB EL	13.0	14.0	7.70	7.60	30.00	30.40	87.87	88.78	7.8	8.0	2	0	BSV	BSV	120.0	330.0	8.5	21.0
95	7	10/26/95	RB EL	RB EL	11.0	11.5	7.90	8.00	26.40	28.80	84.38	87.74	7.8	7.9	11	23	115.0	307.0	115.0	350.0	6.0	16.0
95	7	11/09/95	RB EL AB	BB AB IL	12.0	7.0	9.30	8.80	20.00	24.40	97.48	84.72	7.8	7.8	26	25	140.0	195.0	140.0	330.0	0.0	1.5
96	7	04/18/96	EL GT	EL GT DT	5.5	7.5	11.40	11.00	9.20	13.40	96.02	99.85	7.6	7.7	100	24	20.0	107.5	20.0	215.0	5.5	15.0
96	7	05/06/96	GT EL	EL GT CT	9.0	9.5	9.20	9.60	20.20	22.20	90.29	96.51	7.7	7.8	103	1	BSV	BSV	40.0	245.0	5.0	11.0
96	7	05/20/96	GT DT	GT DT LT	14.0	13.0	9.00	9.10	16.60	20.20	96.45	97.58	7.6	7.8	48	10	BSV	195.0	85.0	270.0	22.0	33.5
96	7	06/03/96	EL DT	EL GT	17.0	14.0	8.20	8.70	22.70	25.90	96.95	98.73	7.8	7.9	19	5	BSV	188.0	60.0	280.0	19.5	19.0
96	7	06/17/96	EL DT	EL GT	19.0	18.0	7.80	8.30	25.90	27.20	97.76	102.87	7.5	7.8	11	8	BSV	240.0	80.0	265.0	23.5	28.0
96	7	07/01/96	JJ DT	JJ JJ GT	18.0	16.0	7.20	8.30	27.90	29.20	89.62	100.17	7.7	7.7	9	10	BSV	210.0	70.0	280.0	20.0	30.0
96	7	07/15/96	DT EL	EL DT	20.0	19.5	7.00	7.50	20.60	22.80	86.02	93.14	7.4	7.8	134	*	BSV	165.0	85.0	285.0	20.0	27.0
96	7	07/30/96	EL JM	EL JM	18.0	17.0	7.10	8.00	25.90	27.20	86.68	97.24	7.7	7.7	9	3	BSV	215.0	65.0	290.0	19.5	30.5
96	7	08/14/96	EL DT	SH	19.0	19.5	7.00	5.40	28.50	28.50	89.15	69.42	7.6	7.7	4	3	BSV	225.0	85.0	265.0	16.5	26.0
96	7	08/29/96	EL DT	EL DT	18.5	19.0	7.50	7.50	29.50	30.20	95.19	96.53	7.6	8.0	3	4	BSV	192.5	70.0	210.0	15.0	32.0
96	7	09/16/96	EL DT	EL GT	17.0	17.0	7.40	7.30	29.70	30.60	91.37	90.65	7.7	7.9	43	17	BSV	255.0	115.0	305.0	16.0	20.0
96	7	09/30/96	BB BE	GT AB BE	15.0	14.0	8.30	7.90	29.10	30.60	98.12	92.40	7.9	7.7	54	1	BSV	BSV	80.0	300.0	17.0	18.0
96	7	10/15/96	EL DT	GT RC	10.5	11.5	8.90	8.60	28.80	30.00	95.52	95.07	7.9	7.8	36	4	BSV	BSV	70.0	280.0	6.0	10.0
96	7	10/29/96	GT DT EL	GT DT EL	10.0	11.0	8.40	8.40	14.20	20.10	81.25	86.18	7.1	7.7	9	12	BSV	120.0	100.0	305.0	8.0	11.0
96	7	11/06/96	EL GT	EL GT	9.0	10.0	9.20	9.20	17.00	21.10	88.48	92.89	7.7	7.7	29	2	BSV	175.0	25.0	185.0	11.0	9.0
97	7	04/23/97	RB, BE	BE, JM, AA, JW, AR	8.5	9.5	10.70	11.80	8.10	13.50	96.33	112.34	7.1	7.7	TNTC	4	25.0	142.5	25.0	220.0	9.0	15.0
97	7	05/06/97	GT, BE	EL, BE	8.5	9.0	11.00	9.30	18.30	22.30	105.42	92.50	7.0	6.9	29	32	20.0	138.0	20.0	220.0	10.0	20.0
97	7	05/22/97	GT, EL	DT, BE	11.0	11.0	9.00	9.20	21.80	23.90	93.33	96.69	7.6	7.0	10	6	45.0	150.0	45.0	250.0	10.0	19.0
97	7	06/05/97	GT, IL	BE, JJ, JJ	14.0	14.0	8.80	10.10	25.60	27.85	99.67	116.05	7.8	7.3	*	*	80.0	270.0	80.0	280.0	13.0	16.0
97	7	06/23/97	EL, BE	EL, GT	19.5	17.0	8.10	8.40	27.70	28.85	103.61	103.16	7.6	8.0	3	19	95.0	177.5	95.0	305.0	27.0	30.0
97	7	07/07/97	GT, DT	IL, AB	19.0	16.5	7.30	8.20	30.20	28.20	93.95	99.31	7.4	7.8	13	2	95.0	252.5	95.0	290.0	27.0	30.0
97	7	07/21/97	EL	EL, DT	19.5	17.0	7.20	7.60	26.35	27.80	91.35	92.72	7.4	7.6	7	3	85.0	225.0	85.0	300.0	20.0	20.0
97	7	08/04/97	GT, DT	IL, BE	20.0	17.0	7.90	7.90	28.50	30.80	102.52	98.23	7.6	7.4	4	5	105.0	300.0	105.0	300.0	20.0	27.0
97	7	08/19/97	DT, RB	DT, SB	19.5	17.0	7.60	8.00	29.60	30.95	98.36	99.57	7.3	7.4	2	4	85.0	262.5	85.0	320.0	15.0	25.0
97	7	09/03/97	EL, BE	EL, DT	19.0	19.0	7.10	7.00	29.50	29.80	90.98	89.87	8.1	7.7	3	58	115.0	285.0	115.0	305.0	19.0	22.0
97	7	09/18/97	DT, BE	IL, BE	18.5	18.0	7.40	7.20	30.80	30.80	94.69	91.27	7.5	7.8	*	*	95.0	293.0	95.0	340.0	17.0	29.5
97	7	10/02/97	DT, GT	BE, IL	13.5	16.0	8.00	7.80	30.70	31.30	92.67	95.41	7.4	*7.8	3	0	115.0	295.0	115.0	295.0	8.5	24.0
97	7	10/17/97	GT, DT	BE, JK	21.0	18.0	9.20	9.00	32.60	32.95	124.73	115.66	7.4	7.0	5	0	105.0	330.0	105.0	330.0	2.0	15.5
97	7	11/03/97	IL, BE	IL, BE	15.0	15.0	8.40	8.70	25.25	28.50	96.91	102.45	7.1	7.4	*	*	25.0	206.0	25.0	220.0	9.0	16.5
98	7	05/12/98	DT, BN	BE, BN	11.0	12.0	8.60	9.10	14.80	17.80	85.40	94.10	7.1	6.7	68	29	130.0	135.0	130.0	150.0	13.0	18.5
98	7	06/10/98	BN, GT, DT	BE, BN, DT	14.5	14.0	9.00	9.70	24.70	26.70	102.41	110.64	7.4	7.5	1	2	90.0	275.0	90.0	275.0	22.0	21.5

Site 7 - Cedar Pt

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L °C	WTEMP-H °C	DO-L ppm	DO-H ppm	SAL-L ppt	SAL-H ppt	SAT-L %	SAT-H %	pH-L	pH-H	FECAL-L CFU/100ml	FECAL-H CFU/100ml	LP-L cm	LP-H cm	DEPTH-L cm	DEPTH-H cm	ATEMP-L °C	ATEMP-H °C
98	7	07/09/98	DT,GT	BN,BE,IL	19.5	19.0	7.00	8.70	17.80	21.50	84.42	106.20	7.4	7.8	0	0	100.0	201.0	100.0	295.0	17.0	29.5
98	7	08/10/98	DT,GT	EL,BE	20.0	20.0	7.20	7.20	28.90	29.60	93.66	94.07	7.8	7.9	6	2	97.0	132.5	97.0	290.0	25.0	41.0
98	7	09/09/98	BN,BE	DT,GT	17.0	14.0	6.80	7.60	29.65	31.10	83.94	89.18	7.6	7.7	6	2	97.0	292.5	97.0	330.0	17.0	18.0
98	7	10/07/98	IL, DT	IL, BE	10.5	10.0	8.40	8.50	30.00	31.25	90.88	91.74	7.6	8.1	2	0	80.0	330.0	80.0	330.0	9.0	19.0
98	7	11/05/98	EL,DT	BE,BN	7.0	9.0	8.90	8.60	27.75	29.25	87.64	89.56	7.7	7.7	2	0	90.0	255.0	90.0	330.0	1.0	14.0
99	7	04/29/99	BT, BE	BT, BE	9.5	9.5	9.60	9.80	25.40	27.80	98.53	102.20	7.8	8.0	4	0	100.0	255.0	100.0	300.0	8.0	15.0
99	7	05/17/99	BT, BE	BT, BE, DG	14.0	13.5	8.20	9.30	27.40	29.00	93.95	106.53	7.7	7.8	0	4	65.0	300.0	65.0	300.0	21.0	21.0
99	7	06/15/99	BE, BT, LH	BE, BT, LH, DG	19.5	18.0	7.30	7.40	29.75	29.80	94.57	93.21	7.8	7.8	107	177	80.0	290.0	80.0	290.0	23.0	27.5
99	7	07/13/99	BE	BE, LH	18.0	16.0	8.80	8.10	29.90	31.45	110.92	99.17	7.8	8.0	12	3	80.0	290.0	80.0	290.0	17.0	23.0
99	7	08/12/99	LH, EL	EL, LH	17.0	17.0	6.50	7.30	32.00	30.70	81.44	90.71	7.8	7.8	2	0	85.0	315.0	85.0	315.0	20.0	30.5
99	7	09/13/99	LH, EL	EL, LH	21.0	18.5	6.00	7.00	30.20	30.30	80.14	89.29	7.6	7.7	25	19	90.0	300.0	90.0	300.0	29.5	22.0
99	7	10/12/99	BE,LH	BE,LH	12.0	12.0	8.20	8.40	27.80	28.85	90.32	93.16	7.8	7.7	*	*	90.0	280.0	90.0	280.0	8.0	16.0
99	7	11/09/99	BB,LH,TH	LH,BE	6.5	7.0	8.90	8.90	24.35	27.25	84.64	87.34	7.1	7.7	6	14	105.0	285.0	105.0	310.0	2.0	11.0
00	7	04/19/00	LH, BW	LH	8.0	7.0	9.90	10.90	24.70	29.80	97.75	108.85	7.6	7.8	1.00	2.00	6.0	90.0	6.0	175.0	9.0	12.0
00	7	05/18/00	BE,LH	BW, BE	14.0	*	8.50	*	21.05	*	93.58	*	7.1	*	1.00	*	90.0	*	90.0	*	15.0	*
00	7	06/19/00	BE, JL, LH	BE, LH	18.0	18.0	3.30	8.40	24.30	25.00	40.18	102.71	7.6	7.8	9.00	9.00	95.0	90.0	95.0	175.0	27.5	28.5
00	7	07/01/00	BE,LH, TH, BW	LH, MW, BW, BE	18.0	17.5	7.30	7.00	28.75	29.20	91.35	86.99	7.6	7.5	76.00	120.00	105.0	228.0	105.0	285.0	19.0	28.0
00	7	08/15/00	BE, BW	BE, BW	20.5	20.0	7.10	7.30	27.30	27.20	92.31	93.98	7.5	7.8	4.00	60.00	90.0	245.0	90.0	290.0	21.0	23.0
00	7	09/14/00	BW, DDP, JL		19.0	18.0	7.80	7.40	29.80	31.20	100.14	94.04	7.7	*	0.00	6.00	85.0	340.0	85.0	*	17.0	24.0
00	7	10/16/00	BE, JL, RW	BE, BW	17.8	17.0	8.20	8.30	29.50	32.90	102.10	104.60	7.5	7.0	8.00	6.00	105.0	310.0	105.0	310.0	9.5	3.0
00	7	11/13/00	BE,BW, JL	BE, JL	8.0	9.5	6.20	9.00	24.60	28.10	61.18	94.04	7.3	7.3	10.00	6.00	95.0	255.0	95.0	340.0	2.0	10.0
01	7	04/24/01	JL, RR	CM, DP, RR	11.0	10.0	8.90	10.95	21.70	19.60	92.24	109.51	7.6	7.7	2	3	105.0	213.5	105.0	300.0	15.0	32.0
01	7	05/23/01	BT, RR	JL, RR	14.0	13.0	7.22	7.80	25.60	27.80	81.78	87.75	7.6	7.8	0	0	95.0	210.0	95.0	300.0	15.0	18.0
01	7	06/21/01	JL, SJ	SW, JL	20.0	17.0	6.30	7.60	23.30	25.10	79.23	91.18	7.3	7.8	60	0	80.0	175.0	80.0	290.0	18.0	16.0
01	7	07/23/01	JL, JJ	JL, SJ	22.0	20.0	6.90	7.40	29.50	30.20	93.45	97.04	7.8	7.1			85.0	295.0	85.0	310.0	31.0	34.0
01	7	08/20/01	LP, RR	LP, RR	18.5	16.0	6.30	9.00	30.20	30.30	80.31	109.38	7.5	7.7	22	2	90.0	315.0	90.0	355.0	21.0	25.5
01	7	09/18/01	RR	RR	15.0	15.0	7.10	7.50	31.10	32.10	85.02	90.40	7.1	7.7	4	1	85.0	315.0	85.0	320.0	14.5	27.0
01	7	10/17/01	RR, NH	RR, JK	12.5	11.0	7.80	10.70	30.00	31.70	88.08	118.38	7.7	7.7	13	13	130.0	265.0	130.0	265.0	12.0	13.0
01	7	11/01/01	JL, RR	JL, RR	9.0	9.5	8.45	8.30	29.80	31.20	88.33	88.56	7.5	7.6	2	1	105.0	300.0	105.0	300.0	7.0	11.0
02	7	04/29/02	JL, JO, RR, SL	JL, SL, RR	8.0	8.0	9.30	9.60	24.00	27.20	91.41	96.39	7.5	7.7	2	1	107.0	207.5	107.0	327.0	4.0	7.0
02	7	05/28/02	RR, JL, SL	SL, RR	14.0	14.0	7.70	7.80	21.85	24.00	85.19	87.46	7.5	7.5	3	2	90.0	202.5	90.0	300.0	17.0	20.0
02	7	06/25/02	SL, SJ	SL, SJ	18.5	17.0	7.20	7.10	22.90	24.00	87.77	84.61	7.5	7.6	15	4	90.0	220.0	90.0	308.0	18.0	24.0
02	7	07/25/02	SL, SJ	SL, SJ	20.0	18.0	7.00	7.60	29.80	30.40	91.57	96.09	7.7	7.7	2	8	95.0	250.0	95.0	290.0	19.0	24.0
02	7	08/26/02	SL, SJ	SL, JL	20.0	19.0	7.30	7.25	31.50	31.60	96.51	94.13	7.7	7.7	1	1	105.0	305.0	105.0	305.0	*	27.0
02	7	09/23/02	SL, RR	SL, RR	18.5	17.0	7.00	7.05	30.80	32.00	89.57	88.34	7.7	7.7	22	17	130.0	295.0	130.0	315.0	23.0	26.0
02	7	10/22/02	SL,RR	SL, RR	10.0	12.0	8.00	7.60	30.00	31.40	85.62	85.72	8.2	7.9	0	2	135.0	316.0	135.0	316.0	6.0	12.0
02	7	11/06/02	SL, RR	SL, RR	8.0	9.0	9.00	8.40	28.50	31.30	91.16	88.71	7.8	7.9	4	1	128.0	280.0	128.0	390.0	12.0	9.0

Site 9 - Cocheco River

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L °C	WTEMP-H °C	DO-L ppm	DO-H ppm	SAL-L ppt	SAL-H ppt	SAT-L %	SAT-H %	pH-L	pH-H	FECAL-L CFU/100ml	FECAL-H CFU/100ml	LP-L cm	LP-H	DEPTH-L	DEPTH-H	ATEMP-L °C	ATEMP-H °C
91	9	04/14/91	NN JH	NN JH	9.0	11.0	10.20	10.00	3.50	6.20	90.5	94.4	7.1	7.0	*	*	*	*	*	*	0.0	10.0
91	9	04/27/91	AR JH	AR JH	13.0	14.0	9.00	9.20	2.80	5.00	87.2	92.2	7.4	7.2	*	*	*	*	*	*	6.0	11.0
91	9	05/13/91	NN JHCC	NN JHCC	16.0	18.0	8.30	8.20	3.20	5.80	85.9	89.8	7.1	6.9	*	*	*	*	*	*	10.0	22.0
91	9	05/27/91	JH NN	JH NN	18.0	21.0	5.80	6.00	7.60	11.60	64.1	71.9	7.0	7.2	*	*	*	*	*	*	13.0	20.0
91	9	06/11/91	JH JJ NN	JH JJ NN	19.5	23.0	4.55	5.60	9.90	4.60	52.5	67.1	7.1	7.2	*	*	*	*	*	*	18.0	26.0
91	9	06/26/91	NN JH	NN JH	19.5	22.5	7.30	9.95	9.30	19.10	83.9	127.9	7.4	7.8	*	*	*	*	*	*	16.0	27.0
91	9	07/11/91	NN JH	NN JH	19.5	21.0	6.30	6.85	16.60	24.50	75.5	88.4	7.2	7.5	*	*	*	*	*	*	17.0	22.0
91	9	07/26/91	NN JH	NN JH	23.5	23.0	5.80	6.30	18.00	25.40	75.5	84.8	7.5	7.6	*	*	*	*	*	*	20.0	23.0
91	9	08/09/91	JH NN CN	JH NN CN	21.5	21.5	6.70	7.00	19.50	27.20	84.7	92.6	7.4	7.6	*	*	*	*	*	*	17.0	24.0
91	9	08/25/91	NN JH	NN JH	19.0	21.0	7.00	6.30	2.10	3.40	76.6	72.2	6.9	6.9	*	*	*	*	*	*	13.0	24.0
91	9	09/07/91	NN JH	NN JH	18.0	22.0	6.00	7.90	7.20	13.60	66.2	97.6	6.8	6.8	*	*	*	*	*	*	12.0	28.0
91	9	09/23/91	NN JH	NN JH	14.5	17.0	7.10	7.70	6.30	10.60	72.4	84.8	7.2	7.0	*	*	*	*	*	*	1.0	16.0
91	9	10/06/91	NNJH	NNJH	15.0	15.0	8.50	8.00	3.00	5.10	86.1	82.0	7.0	7.0	*	*	*	*	*	*	14.0	16.0
91	9	10/22/91	JH SJ NN	JH SJ NN	10.0	11.0	10.00	8.90	2.20	4.80	90.1	83.3	7.3	7.0	*	*	*	*	*	*	5.0	18.5
91	9	11/05/91	NN JH	CC JH	7.0	8.0	10.00	10.00	4.80	6.70	85.2	88.2	7.2	7.0	*	*	*	*	*	*	-2.0	4.0
92	9	04/16/92	NN SS	SS CC	5.5	6.0	11.20	11.90	5.40	8.00	92.2	100.8	7.3	6.9	*	*	*	*	*	*	-8.0	5.5
92	9	05/02/92	JH NN	JH NN	11.0	12.5	9.40	9.50	4.80	6.25	88.0	92.8	7.0	7.0	*	*	*	*	*	*	10.0	16.0
92	9	05/16/92	NN	NN JT	15.0	15.5	8.50	8.35	6.30	9.20	87.7	88.5	7.4	7.3	*	*	*	*	*	*	9.5	16.0
92	9	06/01/92	NN	SS CC	14.0	13.5	7.60	8.10	9.90	14.50	78.3	84.8	7.1	7.3	*	*	*	*	*	*	10.0	10.0
92	9	06/14/92	NN	JH	19.5	22.5	6.40	6.50	7.00	11.50	72.7	80.1	7.1	7.1	*	*	*	*	*	*	19.0	28.0
92	9	06/29/92	SS NN	SS NN	17.5	22.0	6.70	6.50	11.10	19.50	74.8	83.0	6.7	7.5	*	*	*	*	*	*	13.5	28.0
92	9	07/14/92	NN	NN SS	20.5	20.0	6.70	7.15	17.90	20.50	82.4	88.4	7.6	7.6	*	49	*	*	*	*	16.0	18.0
92	9	07/29/92	NN	JT NN	20.5	22.0	7.10	9.10	15.30	19.10	86.0	115.9	7.5	7.5	*	24	*	*	*	*	15.0	27.0
92	9	08/12/92	NN	NN SS	20.5	22.0	6.50	8.30	9.80	16.70	76.4	104.3	7.0	7.4	190	52	*	*	*	*	14.0	24.0
92	9	08/27/92	CC JJ	SS	22.0	25.0	6.90	8.40	9.90	17.40	83.5	111.9	6.8	7.5	22	172	*	*	*	*	22.0	27.0
92	9	09/10/92	SS	SS	19.0	23.0	8.30	8.10	9.20	16.10	94.4	103.3	6.9	6.4	800	800	*	*	*	*	20.0	27.0
92	9	09/26/92	NN	NN CN	14.5	16.0	8.00	8.60	12.60	20.30	84.6	98.2	7.0	7.6	*	*	*	*	*	*	10.5	17.0
92	9	10/11/92	SS	NN	13.0	14.0	8.20	8.40	7.90	9.40	81.7	86.3	7.0	7.1	*	*	*	*	*	*	13.0	18.0
92	9	10/24/92	NN	NN SS	9.0	10.5	10.20	8.60	6.80	13.50	92.2	83.8	7.0	7.1	*	*	*	*	*	*	7.0	15.0
92	9	11/09/92	SS	SS	3.0	5.0	11.30	11.50	5.40	5.90	87.2	93.8	6.6	6.9	170	50	*	*	*	*	-6.0	2.0
93	9	04/21/93	NN JM	NN JM	10.0	11.5	10.10	10.20	0.00	0.00	89.9	94.0	7.1	7.2	20	70	17.0	115.0	17.0	180.0	16.0	19.0
93	9	05/06/93	NN JM	NN JM	17.0	17.0	8.90	8.50	0.00	2.90	92.5	89.7	7.1	7.0	420	100	24.0	100.0	24.0	250.0	17.0	22.0
93	9	05/20/93	NN JM	NN JM	15.0	15.0	7.80	7.60	4.70	9.90	79.7	80.0	7.0	6.9	250	140	20.0	118.0	20.0	400.0	11.0	13.0
93	9	06/04/93	NN JM	NN JM	15.0	17.0	8.10	8.00	5.90	10.80	83.4	88.2	6.9	7.0	240	100	20.0	150.0	20.0	200.0	10.0	20.0
93	9	06/23/93	JM BK	JM BK	21.0	20.5	6.50	7.90	14.00	18.30	79.0	97.4	7.0	7.3	300	100	*	*	*	175.0	19.0	21.0
93	9	07/06/93	JM	JM	24.0	26.5	7.50	8.20	12.80	20.40	95.7	114.0	7.6	7.6	50	20	*	*	*	400.0	30.0	32.0
93	9	07/23/93	NN JM	NN JM	22.0	22.0	6.80	7.20	18.50	24.90	86.3	94.9	7.1	7.6	310	40	*	*	30.0	425.0	20.0	23.0
93	9	08/03/93	NN JM	NN JM	23.0	26.0	7.30	9.50	12.40	21.10	91.2	131.5	7.3	7.7	*	*	*	*	*	400.0	22.0	28.0
93	9	08/19/93	NN JM	NN JM	22.0	24.0	5.30	*	15.40	21.70	66.1		7.1	7.5	470	10	*	*	*	465.0	18.0	22.0
93	9	09/02/93	NN	NN	22.0	22.0	5.60	8.80	20.00	25.20	71.7	116.2	7.4	7.5	180	0	40.0	195.0	40.0	*	19.5	22.0
93	9	09/20/93	JM	JM	15.5	16.0	7.00	9.60	17.00	24.50	77.6	112.5	7.3	7.8	320	30	*	*	*	440.0	12.0	15.0
93	9	10/04/93	JM	JM	12.5	15.0	8.50	9.90	8.40	15.40	84.0	107.6	7.1	7.6	440	80	*	*	*	365.0	13.0	20.5
93	9	10/18/93	JM	JM	9.5	11.5	*	8.70	4.30	13.30		86.6	7.0	7.3	600	120	*	*	*	460.0	14.0	17.0
93	9	11/09/93	JM IL	JM IL	6.0	2.0	11.10	11.00	3.80	5.00	91.7	82.4	6.9	7.5	170	60	*	*	*	390.0	7.0	-4.0
94	9	04/26/94	NN	NN RJ	9.0	9.0	10.20	10.10	1.60	5.40	89.5	90.6	7.3	7.3	210	38	30.0	13.0	30.0	430.0	5.0	6.0
94	9	05/10/94	BK JM	BK RJ	11.5	12.0	10.10	9.50	0.00	3.40	93.1	90.3	*	7.1	80	130	*	*	*	550.0	12.0	16.0
94	9	05/25/94	AR JJ JJ	RJ BK	16.0	15.0	8.20	8.00	2.40	5.00	84.5	81.9	6.9	7.3	210	70	10.0	110.0	10.0	600.0	12.0	13.0
94	9	06/09/94	NN	RJ NN	17.0	20.0	7.30	7.20	7.00	14.50	78.8	86.0	7.3	7.5	220	38	30.0	145.0	30.0	310.0	16.0	23.0
94	9	06/23/94	JM	RJ CC JM	21.0	22.0	5.80	6.60	13.00	20.90	70.1	85.0	7.1	7.2	420	50	*	*	*	*	16.0	24.0
94	9	07/11/94	NN	NN	23.5	25.0	6.80	8.30	13.90	20.90	86.5	112.8	7.8	7.9	20	20	20.0	120.0	20.0	285.0	23.0	26.0
94	9	07/25/94	JM	JM KG	24.0	25.0	7.40	6.70	13.60	*	94.8		7.7	7.7	70	10	*	*	*	445.0	22.0	27.0
94	9	08/09/94	BK CC	BK	20.5	23.0	7.50	7.70	15.60	25.50	91.0	103.7	7.7	7.8	600	0	*	*	*	*	16.0	23.5
94	9	08/22/94	NN	RJ NN	20.5	20.0	7.20	8.10	8.80	16.60	84.2	98.0	7.3	7.3	*	*	40.0	130.0	40.0	*	18.0	16.0
94	[illegible]	[illegible]9/06/94	WK	BK RJ	15.0	17.5	7.80	10.60	14.10	24.00	84[illegible]	[illegible]7.6	7.7	7.4	TNTC	46	*	*	*	*	11.5	[illegible]7.0

Site 9 - Cocheco River

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L	WTEMP-H	DO-L	DO-H	SAL-L	SAL-H	SAT-L	SAT-H	pH-L	pH-H	FECAL-L	FECAL-H	LP-L	LP-H	DEPTH-L	DEPTH-H	ATEMP-L	ATEMP-H
					°C	°C	ppm	ppm	ppt	ppt	%	%			CFU/100ml	CFU/100ml	cm				°C	°C
94	9	09/21/94	JM SO	BK JM	16.0	19.0	8.00	10.70	8.90	19.10	85.5	128.8	7.5	8.7	8	0	*	*	*	480.0	9.0	22.0
94	9	10/06/94	NN	RJ NN	11.0	14.0	7.60	9.00	8.10	13.90	72.5	94.9	6.9	7.8	169	11	20.0	95.0	20.0	460.0	4.0	11.0
94	9	10/20/94	NN	BP BK	11.0	12.0	8.90	9.10	7.00	4.60	84.4	87.1	7.2	7.5	110	90	40.0	205.0	40.0	510.0	13.0	13.5
94	9	11/07/94	NN JM	NN JM	9.5	10.0	9.00	8.80	10.70	17.10	84.2	86.6	6.9	7.5	380	30	*	145.0	*	200.0	7.0	9.0
95	9	04/18/95	BK JM	LM NN	10.0	9.0	10.90	10.40	1.90	8.10	98.09	94.76	7.1	7.2	26	11	30.0	117.5	30.0	400.0	10.0	11.0
95	9	05/01/95	JM BK	NN LM	10.0	11.0	9.85	9.80	4.40	9.70	89.91	94.40	7.0	7.0	70	3	40.0	157.5	40.0	360.0	1.0	10.0
95	9	05/15/95	JM	JM LM	7.0	8.0	8.50	9.30	5.40	11.20	72.64	84.30	7.0	7.0	160	NV	25.0	102.0	25.0	460.0	9.0	6.0
95	9	05/30/95	JM	BK LM	17.0	19.0	7.00	7.40	4.20	8.80	74.42	84.01	6.9	7.4	130	190	30.0	*	30.0	*	18.0	23.0
95	9	06/13/95	BK JM	BK JM	18.0	19.5	7.50	6.60	6.80	13.70	82.54	77.76	7.0	7.3	43	80	30.0	117.5	30.0	420.0	15.0	18.5
95	9	06/27/95	NN JM	NN LM	20.5	19.0	7.00	7.50	10.10	20.80	82.41	91.17	7.4	7.5	570	NV	40.0	152.5	40.0	360.0	17.5	*
95	9	07/12/95	NN JM	NN WK	21.0	22.5	6.00	6.20	14.00	25.40	72.88	82.67	7.6	8.5	400	20	35.0	135.0	35.0	400.0	17.5	24.0
95	9	07/27/95	BK JM	BK DB	23.5	27.5	7.00	7.50	9.80	17.20	87.06	104.26	7.6	7.6	2600	110	40.0	127.5	40.0	320.0	22.0	27.0
95	9	08/10/95	LM NN	NN BK	14.5	18.5	6.60	7.00	9.90	16.30	68.73	82.08	7.4	7.6	240	10	40.0	150.0	40.0	390.0	15.0	25.0
95	9	08/28/95	LM BK	LM BK CM	12.0	13.5	7.90	10.00	17.40	23.65	81.49	110.71	7.9	8.2	NV	NV	40.0	*	40.0	*	16.5	21.5
95	9	09/11/95	WK JM	JAM CC	9.0	19.0	7.80	9.80	17.60	27.80	75.30	124.27	7.8	8.0	140	0	50.0	150.0	50.0	375.0	10.0	19.0
95	9	09/26/95	BK JM	DB CC	8.0	8.0	6.80	9.20	16.90	24.60	63.85	90.78	7.6	7.6	800	0	40.0	100.0	40.0	*	13.5	14.0
95	9	10/10/95	JM AR	CC JM	5.0	9.0	8.40	13.60	10.40	17.00	70.40	130.80	7.5	8.4	230	0	40.0	100.0	40.0	430.0	7.0	16.0
95	9	10/26/95	BK JM	LM JM	4.0	6.0	9.10	9.00	1.60	4.10	70.47	74.45	7.1	7.1	320	210	40.0	135.0	40.0	*	4.0	14.0
95	9	11/09/95	JM LM	JM LM	-1.0	-1.0	11.70	12.00	0.60	0.60			7.4	7.3	130	110	40.0	105.0	40.0	400.0	1.0	2.0
96	9	04/18/96	BK JM	BK JM	6.0	7.0	13.00	12.30	0.20	0.10	105.1	101.9	7.0	7.1	350	210	50.0	CURRENT	50.0	CURRENT	5.0	13.0
96	9	05/06/96	L JM	NN JM	11.0	11.5	10.60	9.90	0.00	0.60	96.6	91.6	7.1	7.4	60	30	30.0	112.0	30.0	370.0	3.0	7.0
96	9	05/20/96	JM LM	NN JM	15.5	18	9.20	9.00	8.60	0.80	97.1	95.9	7.3	7.3	120	190	30.0	120.0	30.0	400.0	16	30
96	9	06/03/96	JM LM	LM JM	19	19	7.70	7.80	4.40	6.20	85.3	87.3	7	7.1	160	20	35.0	110.0	35.0	400.0	16	15
96	9	06/17/96	JM LM	LM DB	22	24	6.70	7.50	6.00	13.40	79.4	96.0	*	7.4	600	10	40.0	130.0	40.0	465.0	20	26
96	9	07/01/96	LM BK	*	19.5	*	6.70	*	7.80	*	76.4		6.9	*	6	64	50.0	*	50.0	*	16	*
96	9	07/15/96	NN	WK	20	21	8.40	8.50	0.00	0.10	92.8	95.8	7.1	7.3	6500	5000	10.0	45.0	10.0	250.0	19	23
96	9	07/30/96	NN JM	NN BK	21	22	6.90	6.90	6.10	12.60	80.3	84.7	7.2	7.6	260	30	20.0	127.5	20.0	360.0	18	25
96	9	08/14/96	NN JM	WK MK	20	25	6.60	7.80	7.50	13.70	75.9	101.8	7.4	7.8	550	40	30.0	120.0	30.0	320.0	15	25
96	9	08/29/96	NN JM	NN LM	20.5	23	7.50	7.30	14.20	22.90	90.3	96.8	7.7	7.6	390	25	40.0	105.0	40.0	300.0	14	26
96	9	09/16/96	LM JM	WK JM	18	19	5.70	6.60	21.30	23.00	68.2	81.3	7.1	7.5	50	0	25.0	145.0	25.0	350.0	15	17.5
96	9	09/30/96	LM	JM BK	15	16	8.20	8.20	11.80	19.70	87.3	93.3	7.1	7.6	0	10	40.0	175.0	40.0	410.0	14	16
96	9	10/15/96	BB GA	BT CC	2	10	9.50	9.60	9.20	5.00	73.1	87.9	6.9	7.4	500	8	20.0	CURRENT	20.0	CURRENT	2	9
96	9	10/29/96	JM BB	*	9	*	10.70	*	0.00	*	93.0		7.2	*	92	*	25.0	*	25.0	*	8	*
96	9	11/06/96	JM	WK JM	6.5	6	12.00	12.10	1.60	0.20	99.0	97.8	*	*	160	170	30.0	132.5	30.0	380.0	9	6
97	9	04/23/97	JM, NN	JM, NN	8.5	10.0	11.00	10.90	0.00	0.00	94.5	97.0	7.4	6.9	40	70	35.0	150.0	35.0	450.0	10.0	14.0
97	9	05/06/97	JM	JM, BK	10.0	11.0	10.00	10.10	0.60	1.20	89.3	92.7	7.1	6.9	50	20	30.0	95.0	30.0	430.0	9.0	10.0
97	9	05/22/97	JM, WT	BK, JM	12.5	13.0	8.60	9.20	2.10	4.30	82.0	89.8	7.1	*	40	120	30.0	105.0	30.0	350.0	11.0	15.0
97	9	06/05/97	JM, LM	JM, BK	15.0	17.0	8.40	8.20	5.95	10.25	86.5	90.1	7.3	7.3	*	*	25.0	145.0	25.0	460.0	15.0	16.0
97	9	06/23/97	LM, BT	LM, WT	23.0	24.0	6.90	7.10	9.80	15.90	85.0	92.1	*	7.4	330	10	30.0	130.0	30.0	155.0	24.0	26.0
97	9	07/07/97	LM	LM, CM, TA	23.0	25.0	7.60	11.80	7.00	14.50	92.3	154.7	7.5	8.2	100	30	30.0	95.0	30.0	130.0	23.0	27.0
97	9	07/21/97	NN, BT	NN, CC	20.5	21.0	6.20	6.40	6.10	10.10	71.4	76.1	6.6	6.6	168	56	20.0	130.0	20.0	330.0	17.0	17.0
97	9	08/04/97	LM, AM	LM, JF	21.5	22.0	7.80	7.40	12.45	21.20	94.8	95.4	6.9	7.4	1220	20	10.0	127.5	10.0	195.0	13.0	21.0
97	9	08/19/97	NN, WMK	NN, JN	21.0	23.0	6.60	7.10	14.30	21.60	80.3	93.4	6.9	7.0	0	0	30.0	120.0	30.0	340.0	16.0	23.0
97	9	09/03/97	BT, DB	BT, BK	20.0	21.0	6.70	7.10	8.10	14.65	77.3	86.6	6.8	7.1	220	30	10.0	150.0	10.0	450.0	19.0	19.0
97	9	09/18/97	JM, BT	JM, BT	18.5	21.0	7.00	7.50	13.60	17.10	80.8	92.7	7.1	7.1	*	*	10.0	145.0	10.0	400.0	17.0	22.2
97	9	10/02/97	BT, JM	BT, JM	10.0	14.5	8.10	8.50	12.55	19.20	77.6	93.5	7.4	7.6	400	0	30.0	210.0	30.0	370.0	15.0	17.5
97	9	10/17/97	JM, WT	LM, JM	12.0	13.5	10.80	9.10	6.80	13.25	104.6	94.6	7.3	7.8	200	*	35.0	187.5	35.0	415.0	5.0	14.0
97	9	11/03/97	WT, JM	CC, JM	10.0	11.0	8.90	10.10	0.30	0.60	79.4	92.3	7.3	7.0	100	800	17.5	30.0	40.0	350.0	8.0	15.0
98	9	05/12/98	MH,WT	BK, WT	12.0	14.0	9.80	9.90	0.00	0.00	91.4	96.5	7.4	7.5	80	60	10.0	97.0	10.0	490.0	11.0	12.0
98	9	06/10/98	WT, MH	MH, BC	15.0	21.0	7.50	7.40	6.40	8.60	77.4	87.3	7.1	7.1	50	30	15.0	147.5	15.0	385.0	16.0	23.0
98	9	07/09/98	MH,NN	NN,CC	21.0	25.0	7.30	6.90	1.75	4.90	83.0	86.0	7.2	7.2	40	20	15.0	135.0	15.0	400.0	17.0	25.0
98	9	08/10/98	NN, MH	WT	24.0	25.0	7.30	7.50	4.70	21.40	89.2	102.2	7.6	7.8	120	0	55.0	90.0	55.0	350.0	25.0	26.0
98	9	09/09/98	WT, MH	WT,WK	18.5	19.0	8.00	7.60	15.20	23.90	93.2	94.1	8.0	7.7	10	80	19.0	105.0	19.0	580.0	16.0	15.0

Site 9 - Cocheco River

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L	WTEMP-H	DO-L	DO-H	SAL-L	SAL-H	SAT-L	SAT-H	pH-L	pH-H	FECAL-L	FECAL-H	LP-L	LP-H	DEPTH-L	DEPTH-H	ATEMP-L	ATEMP-H
					°C	°C	ppm	ppm	ppt	ppt	%	%			CFU/100ml	CFU/100ml	cm				°C	°C
98	9	10/07/98	WT,MH	WT, MH	10.0	13.0	8.80	9.10	11.25	19.00	83.6	96.9	7.6	7.7	28	1	5.0	160.0	5.0	235.0	9.0	18.0
98	9	11/05/98	MH,FC	WT,CP	6.0	7.5	9.90	9.60	7.90	13.73	83.8	87.3	7.1	7.4	0	0	10.0	165.0	10.0	420.0	-1.0	8.0
99	9	04/29/99	NN, MH	NN, MH	10.0	12.0	9.60	9.50	5.50	12.35	88.19	95.06	7.4	7.6	0	0	30.0	150.0	30.0	225.0	8.0	13.0
99	9	05/17/99	MH, WT	WT, BK	15.5	17.0	7.80	7.80	9.60	17.40	82.82	89.35	7.4	7.4	30	0	10.0	97.5	10.0	265.0	15.0	19.0
99	9	06/15/99	WT, MH	WK, WT	23.0	23.0	6.60	6.70	15.15	19.45	83.75	87.10	8.6	7.6	0	0	10.0	80.0	10.0	380.0	21.0	27.0
99	9	07/13/99	MH,NN	WT, WK	21.0	21.0	7.60	7.20	16.60	24.70	93.68	93.03	7.6	7.8	0	0	15.0	160.0	15.0	340.0	17.0	20.0
99	9	08/12/99	MH, WT	WT, CD	20.0	25.0	6.20	6.60	16.70	24.15	75.03	91.35	7.3	7.5	100	0	10.0	150.0	10.0	400.0	20.0	29.5
99	9	09/13/99	MH, AR	WT, BK	21.5	21.5	6.10	6.40	6.10	15.70	71.64	79.22	7.7	7.8	500	300	15.0	107.5	15.0	190.0	19.0	22.0
99	9	10/12/99	MH, CP	WT,WK	10.5	12.5	9.10	8.90	5.60	10.35	84.61	88.98	6.9	7.3	150	30	15.0	145.0	15.0	370.0	8.5	16.0
99	9	11/09/99	WT,MH	WT,MH	6.0	7.0	11.20	11.4	4.10	3.45	92.65	96.31	7.4	7.5	80	30	15.0	157.5	15.0	170.0	6.0	8.0
00	9	04/19/00	MH, FC	MH, KH	8.00	5.00	10.40	5.30	2.90	4.20	89.75	42.77	6.90	7.40	60	0	10.00	132.50	10.00	200.00	4.00	9.00
00	9	05/18/00	MF, FC	WT, LP	15.00	16.00	8.50	8.80	2.40	6.00	85.80	92.54	7.30	7.10	0	10	10.00	*	10.00	*	13.00	19.00
00	9	06/19/00	MH, FC	WT, LP	19.00	22.00	7.50	7.80	5.45	6.60	83.60	92.74	7.20	7.30	200	90	15.00	140.00	15.00	270.00	18.00	19.00
00	9	07/17/00	MH, FC	BK, LP	18.00	21.00	7.40	8.40	4.50	3.00	80.43	96.12	7.30	7.60	50	410	*	82.50	*	*	15.00	25.00
00	9	08/15/00	WT, FC	BK, LP	20.00	21.00	6.90	7.30	6.10	9.80	78.72	86.64	*	7.30	120	90	10.00	115.00	10.00	690.00	18.00	18.00
00	9	09/14/00	LP, WT	LP, SE	17.50	21.50	7.20	7.60	11.90	21.65	80.70	97.34	7.40	7.70	190	0	10.00	213.00	10.00	325.00	13.00	21.00
00	9	10/16/00	LP, WT	LP, SE	10.00	10.50	9.40	8.80	6.20	14.00	86.70	85.98	7.10	7.60	50	10	10.00	210.00	10.00	230.00	4.00	3.00
00	9	11/13/00	NN, WT	CD, SE, NN	7.50	9.00	10.50	10.50	1.50	2.25	88.78	92.47	6.90	6.80	90	30	3.00	80.00	3.00	360.00	3.00	8.00
01	9	04/24/01	NN	NN, JN	13.0	15.0	9.90	10.20	1.50	1.20	95.18	102.28	7.1	7.3	20	10	35.0	110.0	35.0	*	12.0	24.0
01	9	05/23/01	NN, LP	NN, LP	15.0	15.0	7.90	11.80	6.65	15.80	81.64	128.53	7.2	7.5	70	40	*	320.0	*	320.0	11.0	16.0
01	9	06/21/01	NN	NN,LP	22.0	21.5	6.40	6.20	5.00	9.10	75.45	74.00	7.2	7.1	10	180	47.0	80.0	47.0	265.0	17.0	19.0
01	9	07/23/01	NN	LP, NN	24.5	25.5	6.80	7.00	11.55	18.25	86.95	94.52	7.5	7.5			40.0	90.0	40.0	250.0	27.0	29.5
01	9	08/20/01	BK, NH	BK,NH	23.0	23.5	6.80	6.50	17.50	23.60	87.43	87.32	7.4	7.5	190	10	MUD	122.0	MUD	550.0	21.0	22.0
01	9	09/18/01	NH, DS, LS	NH, LS	17.5	20.0	7.00	7.30	22.85	25.45	83.65	92.99	7.1	7.6	40	0	<5	160.0	<5	460.0	12.0	23.0
01	9	10/17/01	NH, DS, LS	NH, DS	13.0	13.5	8.20	8.00	7.90	15.90	81.73	84.46	7.1	7.1	190	53	50.0	175.0	50.0	430.0	14.0	14.0
01	9	11/01/01	NH, LS, DS	NH, LS	12.9	9.5	9.80	9.50	8.15	15.48	96.74	91.54	6.8	6.9	460	100	50.0	250.0	50.0	380.0	7.0	13.0
02	9	04/29/02	DS, LS, EW	DS, LS, EW	7.0	9.0	10.40	10.50	2.20	7.40	87.22	95.27	7.0	6.9	20	10	17.5	*	30.0	300.0	3.0	5.0
02	9	05/28/02	DS, LS, EW	DS, LS, EW	17.0	18.0	8.40	8.10	7.95	7.80	91.16	89.64	7.2	6.9	90	0	*	135.0	*	250.0	16.0	20.0
02	9	06/25/02	LS, DS, EW	LS, DS, EW	18.0	22.0	7.90	8.00	12.20	5.90	89.60	94.76	7.0	6.9	80	20	35.0	102.5	35.0	330.0	18.0	21.0
02	9	07/25/02	DS, LS, EW	LS, DS, EW	21.0	24.5	7.70	8.90	1.80	22.60	87.56	121.01	7.1	*	270	4	20.0	90.0	20.0	250.0	19.0	21.0
02	9	08/26/02	NH, EW	EW, NH	22.0	23.0	8.60	12.30	22.50	25.90	111.72	165.99	7.6	7.9	86	16	40.0	77.5	40.0	200.0	22.5	27.0
02	9	09/23/02	DS, LS, EW	DS, LS, EW	22.0	24.0	5.80	9.40	18.60	25.30	73.67	128.68	7.2	7.9	>600	290	*	95.0	*	300.0	22.0	21.0
02	9	10/22/02	LS, DS	LS, DS	5.0	8.0	10.4	9.2	6.6	12.5	85.15	84.06	6.6	6.9	42	30	<10	165.0	<10	300.0	(-1.0)	9.0
02	9	11/06/02	LS, DS	LS, DS	4.0	4.0	11.2	10.2	7.9	13.5	90.09	84.97	6.7	6.6	33	43	<10	<10	<10	<10	4.0	8.0

Site 10 - Piscataqua River

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L	WTEMP-H	DO-L	DO-H	SAL-L	SAL-H	SAT-L	SAT-H	pH-L	pH-H	FECAL-L	FECAL-H	LP-L	LP-H	DEPTH-L	DEPTH-H	ATEMP-L	ATEMP-H
					°C	°C	ppm	ppm	ppt	ppt	%	%			CFU/100ml	CFU/100ml	cm	cm	cm	cm	°C	°C
91	10	07/11/91	JJ JB PB CC	JJ JB PB CC	20.5	26.0	7.10	7.80	25.50	29.10	91.31	113.05	7.6	7.9	*	*	*	*	*	*	21.0	27.0
91	10	07/26/91	JB JJ CC	JB JJ CC	23.0	23.0	6.90	9.60	27.40	31.50	93.95	133.98	7.7	7.5	*	*	*	*	*	*	21.0	23.0
91	10	08/09/91	JJ KG	JJ KG	21.0	22.0	7.70	7.90	28.90	33.20	102.04	109.46	7.7	7.4	*	*	*	*	*	*	19.0	25.0
91	10	08/24/91	JJ JJ	JJ JJ	20.0	23.0	7.40	7.80	8.00	3.50	85.30	92.97	7.0	6.9	*	*	*	130.0	*	*	16.0	28.0
91	10	09/07/91	JJ PB	JJ PB	19.0	20.0	7.20	8.80	17.60	25.90	85.90	112.40	7.4	6.9	*	*	*	180.0	*	*	19.0	25.0
91	10	09/23/91	JJ JJ	JJ JJ	15.0	16.0	6.20	7.50	14.50	26.10	67.02	88.76	6.9	6.9	*	*	*	*	*	*	14.0	18.0
91	10	10/07/91	AR TD	AR TD	12.0	13.5	8.30	7.60	6.60	23.50	80.32	84.06	7.4	7.8	*	*	*	170.0	*	*	5.0	15.0
91	10	10/23/91	KG	KG	9.0	12.5	9.20	8.80	9.30	20.30	84.42	93.40	7.4	7.7	*	*	24.0	180.0	*	*	5.0	16.0
91	10	11/06/91	KG	AR SM	6.0	8.5	9.00	9.00	14.20	21.40	79.18	87.97	7.4	7.4	*	*	54.0	220.0	*	*	2.0	8.5
92	10	04/16/92	BW RW	BW RW	5.5	6.5	11.20	11.20	10.30	22.20	94.97	105.00	7.3	8.1	*	*	80.0	175.0	*	*	0.0	8.0
92	10	05/01/92	BW RW	BW RW	10.5	14.5	10.00	10.30	8.70	15.40	94.67	110.75	7.5	7.6	*	*	210.0	220.0	*	*	7.0	24.0
92	10	05/15/92	BW RW	BW RW	15.5	14.5	8.70	9.40	13.90	21.00	94.69	104.54	7.4	7.7	*	*	65.0	135.0	*	*	11.0	14.0
92	10	06/01/92	BW RW	BW RW	14.5	13.5	7.60	8.30	18.20	24.60	83.10	92.44	7.6	7.8	*	*	55.0	140.0	*	*	9.0	9.0
92	10	06/15/92	JJ JJ	JJ JJ	20.5	21.5	6.80	7.60	14.80	20.00	82.18	96.41	7.2	7.6	*	*	80.0	130.0	*	*	18.0	23.0
92	10	06/30/92	BW RW	BW RW	21.5	18.5	8.00	8.20	25.20	28.60	104.62	103.50	8.1	7.9	*	*	85.0	135.0	*	*	32.0	29.0
92	10	07/14/92	BW RW	BW RW	19.4	17.4	8.00	8.30	23.10	28.40	98.59	101.65	7.7	7.9	38	21	110.0	205.0	*	*	18.0	18.5
92	10	07/29/92	BW RW	BW RW	20.4	19.4	7.90	8.70	22.10	30.00	98.65	111.83	7.8	7.9	4	2	70.0	180.0	*	*	16.0	30.0
92	10	08/12/92	BW RW	BW RW	20.4	20.4	7.00	7.70	21.30	27.70	87.00	99.43	7.6	7.7	76	7	*	235.0	*	*	15.0	34.0
92	10	08/27/92	BW RW	BW RW	22.4	20.4	8.70	7.50	22.70	30.00	113.16	98.23	7.6	7.8	28	22	*	250.0	*	*	20.0	26.0
92	10	09/10/92	BW RW	BW RW	18.9	20.4	7.50	8.10	22.10	31.60	90.99	107.15	7.7	7.7	25	4	*	270.0	*	*	20.0	30.0
92	10	09/26/92	BW RW	BW RW	13.4	13.4	8.30	7.80	23.00	30.80	90.56	89.48	7.4	7.5	*	*	*	240.0	*	*	11.0	18.0
92	10	10/11/92	BW RW	BW RW	14.4	14.4	8.10	8.30	20.40	28.20	88.82	95.58	7.3	7.7	304	80	95.0	300.0	*	*	13.0	16.0
92	10	10/24/92	BW RW	BW	8.4	9.4	8.50	9.00	18.40	29.00	80.57	93.57	7.2	7.6	0	20	160.0	*	*	*	5.0	5.0
92	10	11/09/92	BW RW	BW RW	4.4	5.4	9.80	10.60	14.80	21.60	82.32	95.45	7.2	7.4	*	*	*	255.0	*	*	-8.0	6.0
93	10	04/21/93	HB BM KM	MS KM BM	10.0	11.5	10.17	11.05	0.30	6.00	90.70	105.35	7.1	7.6	30	0	*	110.0	*	235.0	12.5	19.5
93	10	05/06/93	MS KK BM	RW KK BM	15.5	15.5	8.02	8.61	6.30	18.30	83.59	96.17	10.0	7.0	140	0	*	250.0	*	250.0	17.0	25.0
93	10	05/20/93	JD JD BM	BM MC KM	13.5	13.0	7.13	8.03	14.70	22.70	74.74	87.45	7.4	7.8	70	0	*	60.0	25.0	225.0	11.0	14.0
93	10	06/03/93	JC SC	MC KM BM	14.0	15.5	7.68	8.26	14.70	24.80	81.38	95.99	7.6	8.0	40	0	*	160.0	*	230.0	9.0	22.0
93	10	06/23/93	BM	KM HB BM	19.0	18.0	6.67	7.70	20.50	26.60	80.94	95.08	7.7	7.9	60	10	90.0	90.0	90.0	315.0	19.0	23.5
93	10	07/06/93	BM	BM	21.5	20.0	6.60	8.08	23.90	29.20	85.65	105.31	7.6	8.0	10	0	90.0	215.0	90.0	315.0	27.0	33.0
93	10	07/22/93	BM WM	BM WM	21.0	18.5	7.01	7.89	26.10	28.40	91.33	99.46	7.6	7.9	0	0	75.0	220.0	75.0	335.0	21.0	24.5
93	10	08/03/93	BM	BM	22.0	21.0	7.39	8.10	23.70	29.30	96.68	107.60	7.4	7.6	*	*	95.0	280.0	95.0	310.0	22.0	29.0
93	10	08/19/93	BM	BM	21.5	21.0	5.96	7.58	24.80	30.40	77.76	101.37	7.5	7.6	20	0	80.0	270.0	80.0	345.0	18.0	23.0
93	10	09/02/93	BM	BM	20.0	20.5	6.72	7.93	26.90	29.90	86.36	104.75	7.7	7.6	10	4	110.0	310.0	110.0	310.0	16.0	21.5
93	10	09/20/93	JC JD SB	BM	15.0	15.0	7.60	7.90	25.60	29.70	87.87	93.75	7.6	7.6	30	0	95.0	315.0	95.0	340.0	14.0	14.5
93	10	10/04/93	JD JC	KK BM	14.5	15.0	8.50	8.67	21.70	28.70	94.93	102.23	7.4	7.5	29	3	135.0	320.0	135.0	320.0	16.5	21.5
93	10	10/18/93	SC KK	KK MS	10.0	11.0	7.60	8.25	18.30	30.80	75.39	90.72	7.1	7.6	50	5	105.0	345.0	105.0	345.0	15.5	17.0
93	10	11/09/93	JM MC BM	CM MC BM	6.5	7.0	9.07	9.80	14.20	24.10	80.77	94.16	7.4	8.0	36	17	110.0	295.0	110.0	295.0	9.0	18.0
94	10	04/26/94	JC MM JM	JC KC MM JM	7.5	7.0	9.75	10.40	10.60	20.80	87.00	97.78	7.3	7.9	21	20	30.0	140.0	30.0	235.0	4.5	7.0
94	10	05/10/94	JC KK BM	BM SC JC BS	13.0	15.0	9.50	9.53	4.80	7.60	93.03	99.01	7.3	7.5	120	60	35.0	157.0	35.0	200.0	12.0	20.0
94	10	05/25/94	BM	SC KM	15.0	14.0	8.38	8.36	10.00	21.70	88.26	92.41	7.6	7.9	46	7	90.0	142.5	90.0	340.0	11.0	15.9
94	10	06/09/94	BM KM MM	BM MS	16.7	17.5	7.60	8.16	18.50	22.90	86.74	97.55	7.6	7.8	26	0	90.0	213.0	90.0	285.0	14.1	27.0
94	10	06/23/94	BM	BM	20.5	19.5	7.05	7.67	22.20	29.00	88.91	98.90	7.6	7.9	29	3	70.0	182.5	70.0	315.0	18.0	28.0
94	10	07/11/94	CM BM	CM BM	23.0	22.0	7.25	7.70	24.70	28.60	97.15	103.72	7.8	7.9	20	1	90.0	267.0	90.0	310.0	25.0	31.0
94	10	07/25/94	CM BM	AR SL	24.5	22.0	6.40	7.00	24.70	29.80	88.08	94.98	7.7	8.5	10	1	90.0	250.0	90.0	315.0	23.0	30.0
94	10	08/09/94	JC BM CM	BM KM JC	21.5	21.5	7.60	7.93	25.20	29.10	99.39	106.17	7.7	8.0	2	2	85.0	207.5	85.0	320.0	21.0	26.0
94	10	08/22/94	BM JC	JC BM	19.5	16.5	6.43	7.15	23.30	29.20	80.09	87.14	7.9	7.9	30	7	90.0	245.0	90.0	320.0	18.0	19.5
94	10	09/07/94	KM HS BM	JC BM	15.5	17.0	8.90	7.55	26.10	30.80	104.27	93.88	8.1	7.9	*	*	95.0	222.5	95.0	325.0	11.5	23.0
94	10	09/21/94	KM HS BM	MS BM	16.5	17.5	9.80	8.90	23.80	31.30	115.48	112.08	8.3	8.3	8	0	75.0	305.0	75.0	305.0	13.0	23.5
94	10	10/06/94	BM MM BS	BM	12.0	13.0	7.68	8.30	18.80	26.80	79.90	92.77	7.9	8.0	19	0	75.0	200.0	75.0	340.0	6.0	15.0
94	10	10/20/94	BM	BM SC SC	12.5	12.5	8.60	9.00	17.70	29.50	89.83	101.30	7.9	8.1	11	5	115.0	330.0	115.0	330.0	15.0	14.5
94	10	11/07/94	BM	BM BS	10.0	10.5	8.02	8.04	18.60	28.90	79.71	86.35	7.6	7.8	33	2	75.0	170.0	75.0	300.0	8.0	10.0
95	10	04/18/95		JDM JAM	*	8.5	*	10.60	*	23.20	*	104.83	*	7.6	*	1	*	*	*	115.0	*	14.0
95	10	05/01/95		JDM JAM	*	10.0	*	10.30	*	22.40	*	104.86	*	7.4	*	3	*	*	*	205.0	*	11.0
95	10	05/15/95		JDM JAM	*	11.0	*	9.00	*	26.40	*	96.13	*	7.6	*	0	*	*	*	235.0	*	8.0
95	10	05/30/95		JDM JAM	*	17.0	*	7.70	*	23.00	*	91.21	*	7.4	*	4	*	*	*	200.0	*	25.0
95	10	06/13/95	JDM JAM	JDM JAM	18.0	16.5	6.30	7.50	18.60	26.40	74.14	89.81	7.0	7.4	11	3	45.0	157.5	45.0	300.0	15.0	19.5
95	10	06/27/95	JM JM	JM JM	21.0	21.0	7.70	8.30	22.40	26.20	98.14	108.20	7.2	7.6	NV	4	*	192.5	75.0	260.0	16.0	21.0
95	10	07/12/95	JM JM	JM JM	20.0	19.0	6.10	7.50	25.30	29.60	77.64	96.17	6.9	7.4	10	1	45.0	147.5	45.0	290.0	17.0	25.0

Site 10 - Piscataqua River

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L	WTEMP-H	DO-L	DO-H	SAL-L	SAL-H	SAT-L	SAT-H	pH-L	pH-H	FECAL-L	FECAL-H	LP-L	LP-H	DEPTH-L	DEPTH-H	ATEMP-L	ATEMP-H
					°C	°C	ppm	ppm	ppt	ppt	%	%			CFU/100ml	CFU/100ml	cm	cm	cm	cm	°C	°C
95	10	07/27/95	JM JM BE	JAM JDM BE	24.0	24.0	6.50	6.80	24.00	28.90	88.31	95.09	7.4	7.4	60	5	75.0	195.0	75.0	265.0	23.0	35.0
95	10	08/10/95	JDM JAM	JDM BE	21.0	24.0	5.30	6.70	22.60	29.20	67.63	93.86	7.2	7.4	11	2	55.0	227.5	55.0	300.0	15.0	28.0
95	10	08/28/95	JM JM BE	JM JM BE	19.0	19.0	8.50	7.80	26.60	30.80	106.99	100.77	7.6	7.6	NV	NV	65.0	197.5	65.0	290.0	17.0	31.0
95	10	09/11/95	JDM BTE	JJ BTE	15.5	17.0	8.60	7.80	27.80	31.60	101.84	97.48	8.0	7.3	6	0	60.0	170.0	60.0	200.0	14.0	21.0
95	10	09/26/95	JM JM BE	JAM ADM	14.0	14.0	7.90	8.10	26.90	30.80	90.22	94.87	7.1	7.6	8	5	75.0	212.5	75.0	315.0	14.0	15.0
95	10	10/10/95	JM JM	JM JM BE	12.0	15.0	8.80	7.90	23.20	30.20	94.10	94.05	7.1	7.8	23	0	80.0	245.0	80.0	285.0	10.0	18.0
95	10	10/26/95	JM BE	JM BM	11.0	13.0	7.90	7.70	11.40	27.40	76.87	86.40	6.4	7.1	80	5	70.0	170.0	70.0	320.0	8.0	14.0
95	10	11/09/95	JM JM	JM JM	4.5	5.0	10.70	9.40	5.30	15.40	85.81	81.29	7.1	7.0	0	83	100.0	157.5	100.0	305.0	2.0	4.0
96	10	04/18/96	BB BE	BB AB	7.0	8.0	13.10	11.90	0.20	1.10	108.61	101.63	7.2	7.1	180	9	35.0	55.0	100.0	320.0	4.0	13.0
96	10	05/06/96	BB AB BE	AB	10.0	12.0	9.80	9.60	5.40	11.60	89.97	95.63	7.0	7.4	30	0	52.5	172.5	57.0	265.0	3.0	9.0
96	10	05/20/96	BB	AB	14.0	21.0	8.90	9.00	5.00	13.60	89.19	109.08	7.2	7.4	80	40	100.0	162.5	100.0	280.0	18.0	34.0
96	10	06/03/96	RB BE	AB	17.5	15.5	7.60	8.60	12.20	22.00	85.33	98.23	7.1	7.7	20	10	45.0	112.5	45.0	290.0	14.0	11.0
96	10	06/17/96	AB BB	AC KF	21.0	21.5	7.20	8.00	16.30	24.00	88.60	103.88	7.4	8.0	38	4	75.0	185.0	75.0	260.0	22.0	NO THERM
96	10	07/01/96	BB AB BE	BB BE	19.0	21.0	6.70	7.90	18.40	26.80	80.31	103.36	7.4	7.6	20	6	60.0	175.0	60.0	300.0	18.0	24.0
96	10	07/15/96	RB AB MB B	RB AB MB	19.5	21.5	8.20	7.90	2.00	3.10	90.62	91.32	6.9	6.2	1700	1460	42.5	52.5	90.0	300.0	20.0	30.0
96	10	07/30/96	BB	BB	19.5	20.0	6.90	8.10	15.90	24.60	82.31	102.66	7.4	7.8	30	0	53.0	165.0	53.0	300.0	18.0	24.0
96	10	08/14/96	AB BB BE	BB AB BE	20.5	24.0	7.10	7.90	20.80	27.90	88.81	109.81	7.5	6.9	0	0	88.0	177.5	88.0	270.0	16.0	27.0
96	10	08/29/96	BE BB	BB BE	19.5	21.0	7.40	6.90	23.80	30.20	92.45	92.17	7.7	7.7	14	0	*	255.0	60.0	320.0	14.0	28.0
96	10	09/16/96	AB RB BE	AB BE	18.0	17.0	6.50	7.30	24.70	29.90	79.33	90.25	7.4	7.8	0	0	*	257.0	110.0	310.0	15.5	21.0
96	10	09/30/96	BM DT DC	BM CT JB	25.5	15.0	8.00	7.60	27.10	29.40	113.61	90.02	7.6	7.9	20	20	85.0	215.0	85.0	315.0	11.5	14.5
96	10	10/15/96	BM	BM DT	10.0	12.0	8.80	8.50	20.40	28.50	88.46	94.05	7.8	7.7	30	0	75.0	230.0	75.0	300.0	0.5	5.5
96	10	10/29/96	AB BS BM	CM JS DR	9.0	10.5	9.30	8.50	4.20	12.80	82.82	82.45	7.2	7.2	70	50	63.0	80.0	105.0	320.0	3.0	9.0
96	10	11/06/96	JB PH BM	BM	8.0	7.0	9.60	9.40	10.00	13.10	86.39	84.16	7.3	9.2	10	20	115.0	120.0	115.0	275.0	7.0	4.0
97	10	04/23/97	JF, MH	AA, BT	8.0	11.5	11.10	10.70	1.05	6.50	94.77	102.31	7.5	7.1	40	12	115.0	120.0	115.0	275.0	7.0	4.0
97	10	05/06/97	BM	BM	10.0	10.0	9.60	9.36	5.60	16.50	88.24	91.82	7.4	7.8	38	4	47.5	80.0	75.0	310.0	10.0	10.0
97	10	05/22/97	BS, BM, JB	DL, JB	11.5	13.2	8.80	9.10	10.40	19.80	86.07	97.34	7.4	7.6	*	*	80.0	110.0	80.0	290.0	9.0	19.5
97	10	06/05/97	BM	DT, SN, BM	14.5	14.5	8.48	8.88	17.35	24.60	92.24	100.98	7.7	7.9	*	*	90.0	162.5	90.0	310.0	10.0	20.0
97	10	06/23/97	BM	BM	21.5	20.0	7.50	8.05	20.60	27.90	95.47	104.08	7.7	7.8	6	*	70.0	155.0	70.0	300.0	23.5	26.0
97	10	07/07/97	BM	BM	21.5	21.0	9.50	9.10	19.90	28.20	120.44	120.07	8.0	8.0	100	30	80.0	187.5	80.0	285.0	24.0	28.0
97	10	07/21/97	BM	BM	20.5	19.0	6.80	7.50	15.30	26.25	82.41	94.20	7.6	7.8	20	8	60.0	185.0	60.0	305.0	20.0	22.0
97	10	08/04/97	SB, DB	AM, AA	17.0	20.5	7.30	8.40	24.60	30.20	87.32	111.17	7.7	8.2	18	0	90.0	250.0	90.0	250.0	17.0	28.5
97	10	08/19/97	BM	BM	20.5	20.5	7.10	7.60	24.60	30.15	90.82	100.55	7.7	7.9	6	0	60.0	220.0	60.0	320.0	15.0	23.0
97	10	09/03/97	BM	BM	20.0	20.0	6.90	7.35	22.70	27.20	86.46	94.63	7.8	7.8	7	0	120.0	230.0	120.0	300.0	20.0	18.0
97	10	09/18/97	BM, SN, CM	BM, LD, KD, SN	19.0	19.5	6.90	7.30	23.60	29.60	85.29	94.48	7.7	7.8	*	*	85.0	212.5	85.0	345.0	16.0	23.0
97	10	10/02/97	BM	BM	12.0	13.0	8.10	8.20	23.70	30.60	86.89	93.95	7.7	7.8	8	0	100.0	275.0	100.0	275.0	0.0	14.0
97	10	10/17/97	RB, MB, JW	RB, JW	12.0	14.0	8.30	8.60	20.70	30.80	87.37	100.72	7.6	7.9	30	0	80.0	310.0	80.0	345.0	5.0	14.0
97	10	11/03/97	BM, CM, DT	BM	9.5	11.0	9.50	9.65	19.05	7.80	93.61	91.93	6.9	7.1	*	TNTC	42.5	52.5	115.0	260.0	11.0	11.0
98	10	05/12/98	BM	BM	11.0	14.0	9.20	9.20	5.75	19.20	86.61	100.15	7.4	7.4	68	48	62.5	62.5	130.0	320.0	8.0	15.0
98	10	06/10/98	BM	BM	16.5	15.5	8.50	9.60	15.75	24.50	95.45	111.35	7.9	8.0	6	0	80.0	160.0	80.0	290.0	15.0	22.0
98	10	07/09/98	WT,BM	WT,CP	19.5	23.5	6.80	6.60	8.70	16.20	77.91	85.01	7.5	7.6	6	10	100.0	145.0	100.0	310.0	19.0	25.5
98	10	08/10/98	BM, WT	BM, RN	23.0	20.5	7.50	7.70	22.90	28.90	99.45	101.09	7.8	8.0	16	2	65.0	175.0	65.0	305.0	23.0	30.0
98	10	09/09/98	BM	BM, SS, JR, KB	18.5	17.0	7.32	7.13	24.00	30.30	89.82	88.37	7.8	7.9	4	14	95.0	212.5	95.0	360.0	13.0	19.0
98	10	10/07/98	BM, JR	BM, DP, PN, KM, TB, KR	11.5	11.5	8.00	8.35	23.60	30.60	84.83	92.68	7.6	7.7	0	0	70.0	242.5	70.0	330.0	2.5	14.0
98	10	11/05/98	BM	CG,BM,KD	6.5	9.5	8.89	8.51	17.95	27.35	81.07	88.48	7.9	8.0	0	0	70.0	212.5	70.0	365.0	-3.0	8.0
99	10	04/29/99	WT, CP	WT, CP	10.0	10.5	10.50	9.90	17.10	24.33	103.39	103.18	7.7	8.2	0	0	85.0	150.0	85.0	410.0	8.0	15.0
99	10	05/17/99	BM, KD, TB	BM, KD, TB	14.5	15.0	22.20	8.70	20.35	27.00	245.91	101.48	7.9	8.1	20	0	95.0	195.0	95.0	310.0	9.0	20.5
99	10	06/15/99	BM	BM	21.0	19.0	7.10	7.50	24.15	29.60	91.43	96.17	7.8	8.1	2	0	52.5	185.0	65.0	315.0	21.0	23.0
99	10	07/13/99	BM	BM	20.0	17.5	7.70	7.90	25.05	30.70	97.85	99.11	8.0	8.0	0	0	60.0	190.0	60.0	310.0	17.0	24.0
99	10	08/12/99	BM	BM	19.5	18.5	6.20	7.40	26.55	31.85	78.75	95.32	7.9	7.9	0	0	70.0	245.0	70.0	315.0	21.0	28.0
99	10	09/13/99	BB, AB	*	20.0	*	6.30	*	16.60	*	76.19	*	7.1	*	132	*	90.0	*	90.0	*	19.0	*
99	10	10/12/99	BM	BM	11.5	14.0	8.30	8.40	16.00	26.80	83.95	95.87	7.7	7.9	30	2	90.0	250.0	90.0	305.0	9.0	15.0
99	10	11/09/99	BM	BM	6.0	7.5	9.40	8.90	12.35	25.30	81.75	87.20	7.6	7.8	20	10	110.0	200.0	110.0	310.0	1.0	9.0
00	10	04/19/00	NO DATA TAKEN	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
00	10	05/18/00	BM	MH,MS	14.0	14.0	9.10	7.20	11.30	22.00	94.52	79.74	7.6	7.6	30.00	0.00	62.5	132.5	90.0	210.0	13.0	22.0
00	10	06/19/00	AR, SE	BM, BK	19.5	20.0	7.50	7.70	15.20	23.30	89.11	96.83	7.6	*	26.00	2.00	80.0	162.5	80.0	285.0	20.0	22.0
00	10	07/17/00	BM	BM	20.0	21.0	7.30	8.10	16.30	17.60	88.14	100.41	7.5	7.6	0.00	12.00	97.5	152.5	105.0	300.0	16.5	21.0
00	10	08/15/00	BM	BM	20.0	20.0	6.70	7.00	18.60	25.90	81.97	89.41	7.4	7.8	22.00	10.00	105.0	170.0	105.0	305.0	19.0	23.0
00	10	09/14/00	MH, NN	MH, AR	19.0	20.0	7.10	7.40	24.30	30.40	88.13	97.16	7.5	7.9	4.00	0.00	100.0	205.0	100.0	310.0	13.0	23.0
00	10	10/16/00	FC, KD	AR, CD, RB	10.0	11.0	8.20	8.30	18.40	27.40	81.40	89.24	7.3	7.8	10.00	6.00	80.0	268.0	80.0	320.0	6.0	5.0

Site 10 - Piscataqua River

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L	WTEMP-H	DO-L	DO-H	SAL-L	SAL-H	SAT-L	SAT-H	pH-L	pH-H	FECAL-L	FECAL-H	LP-L	LP-H	DEPTH-L	DEPTH-H	ATEMP-L	ATEMP-H
					°C	°C	ppm	ppm	ppt	ppt	%	%			CFU/100ml	CFU/100ml	cm	cm	cm	cm	°C	°C
00	10	11/13/00	MH, FC	BT, MH	8.0	9.0	9.70	9.10	7.90	16.40	86.20	87.19	6.8	7.5	50.00	48.00	72.5	200.0	110.0	345.0	4.0	10.0
01	10	04/24/01	FC, KD, MH	MH, PR	11.0	16.0	10.70	10.10	2.65	7.40	98.97	107.04	7.3	7.6	6	0	105.0	155.5	105.0	320.0	13.0	24.0
01	10	05/23/01	FC, MH,	BK, MH	14.0	16.0	7.40	8.30	16.50	24.15	79.26	97.05	7.5	7.9	12	2	90.0	167.5	90.0	210.0	14.0	17.0
01	10	06/21/01	MH, FC	PR, BK	22.0	20.0	6.30	7.10	13.20	19.10	77.64	87.11	7.4	0.0	18	20	60.0	100.0	75.0	290.0	18.0	18.0
01	10	07/23/01	MH, BK	MH, PR	23.0	22.0	6.90	8.00	19.45	29.80	89.70	108.55	7.5	7.9			80.0	131.5	80.0	325.0	24.0	28.0
01	10	08/20/01	MH	MH, LP	22.0	19.5	6.30	7.70	24.80	30.30	82.96	100.09	7.6	7.9	32	2	80.0	225.0	80.0	330.0	20.0	23.0
01	10	09/18/01	MH	MH, AM	17.0	18.0	7.00	8.20	27.05	31.25	85.01	104.24	7.4	7.9	*	*	75.0	285.0	75.0	345.0	14.0	23.0
01	10	10/17/01	MH	MH, KR, AM	13.0	13.0	7.20	8.20	22.25	30.80	78.19	94.07	7.7	7.9	8	0	100.0	232.5	100.0	355.0	13.0	14.3
01	10	11/01/01	AK, LA, JK	MH, NH	8.0	10.0	9.50	9.40	19.50	29.55	90.68	100.29	7.0	7.9	4	0	200.0	307.0	200.0	307.0	7.5	13.0
02	10	04/29/02	MH, SN	MH, SN, DP	7.5	9.0	10.00	9.70	7.30	19.55	87.47	94.80	7.3	7.8	28	6	100.0	142.0	100.0	340.0	3.0	7.0
02	10	05/28/02	CN, SN, BT	CN, SN, BT	16.0	15.5	7.90	8.00	11.25	23.90	85.57	92.45	7.2	7.2	10	0	70.0	175.0	70.0	300.0	17.5	18.0
02	10	06/25/02	CN, BK	CN, BK	20.0	19.5	7.30	7.40	10.10	19.10	85.12	89.92	7.3	7.6	36	16	100.0	155.0	100.0	400.0	18.0	23.0
02	10	07/25/02	CN	CN	23.0	22.0	7.30	8.20	24.50	30.20	97.71	111.53	7.6	7.8	11	5	85.0	175.0	85.0	235.0	16.0	23.0
02	10	08/26/02	BK, CN	BK, CN	23.0	22.0	8.30	7.90	28.50	31.10	113.76	108.05	7.8	7.8	0	0	20.0	215.0	20.0	305.0	24.0	27.0
02	10	09/23/02	BK, CN	BK, CN	21.5	20.0	7.30	7.90	27.40	31.40	96.73	104.37	7.7	7.6	28	8	60.0	273.0	60.0	290.0	21.0	25.0
02	10	10/22/02	CN, EW	CN, EW	8.0	13.0	8.6	9.0	19.4	29.8	82.04	102.57	7.2	7.1	7	2	110.0	173.0	110.0	220.0	0.0	11.0
02	10	11/06/02	SS, EW	EW, SS	6.0	9.0	9.4	8.6	18.0	30.4	84.72	90.26	7.7	7.4	82	2	95.0	192.0	95.0	500.0	8.0	9.0

Site 11- CML

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L	WTEMP-H	DO-L	DO-H	SAL-L	SAL-H	SAT-L	SAT-H	pH-L	pH-H	FECAL-L	FECAL-H	LP-L	LP-H	DEPTH-L	DEPTH-H	ATEMP-L	ATEMP-H
					°C	°C	ppm	ppm	ppt	ppt	%	%			CFU/100ML	CFU/100ML	cm	cm	cm	cm	°C	°C
91	11	04/13/91	PH JC SD	PH JC SD	6.10	6.20	10.40	10.45	27.80	26.80	100.06	99.85	7.4	7.5	*	*	*	*	*	*	5.8	8.0
91	11	04/28/91	SD PH	SD PH	8.00	8.80	9.10	9.10	25.10	23.90	90.09	90.41	7.6	7.5	*	*	*	*	*	*	7.5	8.6
91	11	05/13/91	PH JC SD	PH JC SD	9.10	9.00	8.15	7.20	27.00	25.80	83.60	73.27	7.2	7.4	*	*	250.0	185.0	*	*	21.0	16.0
91	11	05/27/91	PH JC SD	PH JC SD	11.75	12.50	8.50	8.20	28.80	28.00	93.23	91.39	7.6	7.5	*	*	*	*	*	*	13.0	16.0
91	11	06/12/91	JC PH	JC PH	*	10.50	*	8.40	*	29.50	*	90.57	*	*	*	*	*	*	*	*	*	22.5
91	11	06/26/91	JC SD MP	JC SD MP	13.00	13.20	7.10	7.40	30.70	29.80	81.40	84.34	7.8	7.7	*	*	*	180.0	*	*	25.0	25.0
91	11	07/10/91	JC SD	JC SD	13.50	13.00	7.40	8.20	30.80	30.00	85.77	93.58	7.1	7.7	*	*	*	*	*	*	21.5	22.0
91	11	07/25/91	PH	PH	*	12.00	*	8.60	*	29.50	*	95.79	*	7.7	*	*	*	*	*	*	*	24.0
91	11	08/09/91	SD JC	SD JC	16.00	16.50	6.80	7.00	30.00	29.50	82.48	85.47	7.7	7.7	*	*	*	*	*	*	20.0	22.5
91	11	08/26/91	JC SD	JC SD	16.50	17.00	7.00	6.70	27.20	25.50	84.24	80.58	*	7.6	*	*		126.0	*	*	19.0	19.0
91	11	09/08/91	PH	PH	15.50	15.50	7.10	7.00	27.20	28.10	83.76	83.05	7.7	7.5	*	*	198.0	*	*	*	22.0	19.0
91	11	09/23/91	JC DM	JC DM	14.50	14.00	7.80	7.70	28.50	27.90	90.92	88.50	7.5	7.6	*	*	*	180.0	*	*	14.0	17.0
91	11	10/07/91	JC DM	JC DM	11.00	11.50	9.00	8.60	29.00	27.20	97.79	93.34	7.4	7.5	*	*	*	120.0	*	*	10.0	15.5
91	11	10/22/91	SD SG	JC SD SG	9.00	10.50	9.00	8.30	28.50	26.50	93.25	87.74	7.2	7.6	*	*	*	*	*	*	11.0	12.0
91	11	11/06/91	JC DM	PH	10.00	9.00	8.30	7.80	29.00	27.00	88.23	80.01	7.0	7.4	*	*	*	*	*	*	6.0	7.0
92	11	04/15/92	PH JC	PH	5.00	4.50	11.60	11.20	26.50	24.00	107.98	101.23	*	*	*	*	188.0	188.0	*	*	*	13.5
92	11	05/13/92	SD SG	SD SG	8.00	7.50	9.80	10.00	25.00	24.00	96.96	97.14	7.0	7.4	*	*	*	*	*	*	*	*
92	11	06/17/92	JC PH	JC PH	11.50	12.00	8.80	8.20	27.00	24.50	95.38	88.42	7.9	7.9	*	*			*	*	*	*
92	11	06/29/92	CN DW	CN DW	13.70	14.20	10.20	8.50	31.10	31.40	118.62	99.94	7.9	8.1	3	3			*	*	19.5	20.0
92	11	07/14/92	DQ CN SQ	DQ CN SQ	14.20	14.70	7.90	5.80	30.60	31.30	94.25	68.84	7.8	7.7	1	5		475.0	*	*	14.0	16.7
92	11	07/28/92	DQ	CN DQ	16.70	15.20	8.50	8.35	31.20	29.90	104.92	99.22	6.9	7.0	5	4	340.0	335.0	340.0	*	21.0	23.0
92	11	08/12/92	DQ SQ	CN	15.00	14.70	8.40	8.65	29.00	30.36	99.24	102.04	7.8	7.9	6	0	235.0	425.0	235.0	*	17.0	28.0
92	11	08/26/92	DW CN		15.20	*	8.45	*	29.80	*	100.34	*	8.2	*	2	2	235.0	*	235.0	*	20.0	*
92	11	09/10/92	CN	CN JG	15.20	14.70	8.45	8.05	30.30	31.50	100.66	95.67	8.2	8.1	21	7	285.0	445.0	285.0	*	19.0	18.0
92	11	09/25/92	CN DQ	CN	13.20	11.70	8.30	8.60	31.10	30.10	95.41	95.14	8.0	8.1	2	3	180.0	370.0	180.0	*	12.0	14.0
92	11	10/11/92	JG DQ	JG DQ	12.20	12.20	7.85	7.90	31.50	30.90	88.60	88.81	7.8	7.8	8	1	230.0	495.0	230.0	*	12.0	15.0
92	11	10/25/92	JG DQ	JG AR DQ	9.70	10.20	8.55	7.90	30.30	30.30	90.67	84.72	7.6	7.7	14	20	180.0	465.0	180.0	*	6.0	6.0
92	11	11/09/92	JG	JG	12.70	7.70	8.90	8.50	32.10	29.20	101.91	85.51	7.8	7.9	*	0	230.0	500.0	230.0	*	0.0	-2.0
93	11	04/21/93	JG	JG	5.50	6.50	9.75	10.70	22.80	19.30	77.74	98.43	7.4	7.3	0	0	230.0	315.0	230.0	490.0	9.0	12.5
93	11	05/06/93	JG	JG	9.00	11.00	9.90	7.50	23.30	22.70	99.11	78.22	7.3	7.3	0	0	180.0	280.0	180.0	520.0	13.5	22.0
93	11	05/20/93	JG	JG	9.00	9.50	8.50	9.10	25.80	27.20	86.50	94.52	7.5	7.4	10	0	640.0	365.0	640.0	485.0	10.0	13.5
93	11	06/03/93	JG	JG	9.50	10.00	4.70	6.20	28.50	27.40	49.24	55.20	7.4	7.1	0	0	600.0	270.0	600.0	510.0	10.0	16.0
93	11	06/23/93	JG	JG	12.50	14.50	6.50	6.70	29.10	28.30	72.97	77.99	7.4	7.1	20	0	200.0	335.0	200.0	510.0	11.0	24.0
93	11	07/06/93	JG	JG	15.50	15.50	6.00	7.80	30.10	28.80	72.10	92.95	7.2	6.8	0	0	210.0	410.0	210.0	500.0	18.5	24.5
93	11	07/22/93	JG	JG	14.50	16.50	7.10	5.10	30.90	30.40	84.05	62.63	7.4	7.1	0	0	185.0	410.0	185.0	535.0	17.0	26.0
93	11	08/03/93	JJ JJ	JJ JJ	18.00	18.00	7.90	8.80	*	*	*	*	7.0	6.8	*	*	220.0	460.0	220.0	500.0	18.0	26.0
93	11	08/19/93	JG	JG	17.50	18.50	8.00	4.70	32.20	32.50	101.33	60.79	7.4	6.8	10	0	180.0	450.0	180.0	550.0	18.0	23.0
93	11	09/02/93			16.50	18.50	7.90	7.90	29.30	31.20	96.34	101.35	7.9	6.8	*	*	235.0	430.0	235.0	500.0	15.0	20.0
93	11	09/20/93	JJ JJ	JJ JJ	10.00	12.00	8.20	8.40	31.80	32.70	88.83	95.58	7.2	7.2	13	9	210.0	535.0	210.0	535.0	8.0	12.0
93	11	10/04/93	JJ JJ	JJ JJ	12.00	12.00	8.00	8.10	32.20	32.00	90.72	91.73	7.1	7.1	19	1	235.0	385.0	235.0	505.0	14.0	24.0
93	11	10/18/93			9.00	9.50	*	*	32.90	31.60	*	*	*	*	5	2	*	*	*	*	*	*
93	11	11/09/93	CC	CC	8.00	7.00	8.90	9.10	30.10	31.00	91.14	91.64	*	*	*	*	*	*	*	*	*	*
94	11	03/21/94	CN	CN	4.00	4.00	11.90	12.30	26.00	22.00	107.71	108.34	6.0	*	*	*	330.0	420.0	330.0	480.0	6.0	5.0
94	11	04/26/94	CN	CN	6.80	7.80	10.40	10.40	26.00	26.00	100.00	102.38	7.7	8.0	*	*	230.0	385.0	230.0	590.0	6.0	7.0
94	11	04/26/94	DW AP	DW	9.50	6.00	10.70	10.00	*	27.30	*	95.88	8.0	8.0	36	14	220.0	335.0	220.0	565.0	9.5	8.0
94	11	05/10/94	JG AP	DW	9.00	11.00	9.30	9.00	26.00	23.90	94.77	94.59	8.1	7.9	7	8	215.0	250.0	215.0	530.0	13.5	21.0
94	11	05/19/94	KC SW CN	KC CN	9.50	8.90	9.50	9.60	25.00	23.00	97.25	94.82	8.1	7.8	*	*	315.0	390.0	315.0	565.0	13.0	9.0
94	11	05/25/94	JG AP	JJ JG	10.50	10.00	*	8.90	27.70	27.70	*	93.79	8.1	8.1	2	2	185.0	510.0	185.0	540.0	11.0	19.0
94	11	06/09/94	JG AP	JG	10.50	12.00	8.20	8.40	30.20	29.40	88.83	93.50	8.1	7.9	51	4	195.0	435.0	195.0	480.0	12.0	22.0
94	11	06/23/94	JG AP	JG	12.00	13.00	8.00	8.60	30.60	30.80	89.76	98.66	8.1	7.9	TNTC	9	170.0	435.0	170.0	510.0	17.0	24.5
94	11	07/11/94	JG	JG	16.00	16.00	7.80	7.70	31.60	31.90	95.59	94.55	8.0	7.8	6	0	210.0	470.0	210.0	500.0	20.0	24.0

Site 11- CML

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L °C	WTEMP-H °C	DO-L ppm	DO-H ppm	SAL-L ppt	SAL-H ppt	SAT-L %	SAT-H %	pH-L	pH-H	FECAL-L CFU/100ML	FECAL-H CFU/100ML	LP-L cm	LP-H cm	DEPTH-L cm	DEPTH-H cm	ATEMP-L °C	ATEMP-H °C
94	11	07/25/94	JG	JG	14.00	14.50	7.50	7.50	31.10	31.30	88.01	89.02	7.8	7.8	6	1	200.0	475.0	200.0	500.0	17.0	22.5
94	11	08/09/94	DW AP	DW DM	16.50	17.00	7.60	8.90	34.20	33.20	95.65	112.38	8.0	7.8	0	1	200.0	455.0	200.0	510.0	15.5	25.0
94	11	08/22/94	JG AP	JG	15.00	15.00	7.30	7.40	31.30	31.10	87.53	88.61	8.0	7.9	10	4	190.0	445.0	190.0	490.0	18.5	17.0
94	11	09/07/94	AP	AP JJ	14.50	15.50	7.30	7.30	31.10	33.20	86.53	89.50	8.1	8.1	4	1	195.0	427.5	195.0	545.0	11.0	20.0
94	11	09/21/94	AP	AP	14.00	15.00	7.00	7.40	32.10	31.60	82.69	88.90	8.0	8.1	0	1	215.0	397.5	215.0	495.0	12.5	21.0
94	11	10/06/94	AP	AP	11.00	12.50	6.70	7.40	31.50	30.60	74.03	83.89	8.0	7.9	4	0	185.0	282.5	185.0	530.0	6.0	13.0
94	11	10/20/94	AP	AP	11.50	12.00	8.40	8.20	31.70	31.90	93.93	92.80	8.1	8.0	3	0	252.5	357.5	305.0	505.0	13.0	15.0
94	11	11/07/94	AP	AP	10.50	10.50	7.70	8.00	31.50	31.50	84.15	87.43	8.0	8.0	5	3	147.5	245.0	230.0	525.0	7.0	11.0
95	11	04/18/95	JI AP MA DS	DS MA AP	5.50	6.00	10.50	10.20	28.80	28.00	100.50	98.27	8.0	7.9	0	0	170.0	545.0	170.0	545.0	5.5	13.0
95	11	05/01/95	DS JI AP	DS MA	5.50	8.00	10.10	10.50	29.40	29.80	97.08	107.30	8.0	8.0	1	0	270.0	435.0	270.0	535.0	*	5.0
95	11	05/15/95	JI AP	MA DS AP	10.50	8.50	9.80	9.70	29.20	29.20	105.46	99.84	8.0	8.0	5	1	220.0	500.0	220.0	580.0	8.5	10.5
95	11	05/30/95	JMI JLI	DS MA	11.00	14.00	9.00	9.00	29.40	28.20	98.05	103.64	7.8	7.8	4	4	280.0	251.0	280.0	525.0	18.0	23.0
95	11	06/13/95	JI AP	DS MA	12.00	13.00	8.80	8.80	29.90	30.10	98.27	100.49	7.9	7.9	11	12	200.0	307.5	200.0	565.0	14.0	17.0
95	11	06/27/95	JI AP	DS MA	14.00	15.50	8.80	8.70	30.20	29.60	102.66	104.21	7.9	7.9	3	0	280.0	305.0	280.0	410.0	14.0	17.0
95	11	07/12/95	JI JI	DS MA	13.00	14.00	8.70	8.50	30.60	32.10	99.68	100.40	7.7	7.8	2	4	220.0	467.5	220.0	570.0	15.0	25.0
95	11	07/27/95	JI JI	AR AM	18.00	18.50	8.20	7.90	30.60	31.00	103.81	101.22	7.8	7.9	20	1	280.0	420.0	280.0	500.0	21.0	28.0
95	11	08/10/95	JI JI	DS MA AP	17.50	19.00	7.40	7.40	30.60	30.80	92.78	95.60	7.8	7.8	0	0	240.0	415.0	240.0	570.0	18.0	26.0
95	11	08/28/95	DS AP	JI JI	15.00	15.50	7.40	8.10	31.95	31.90	89.11	98.47	7.6	7.8	3	0	270.0	415.0	270.0	560.0	15.0	28.0
95	11	09/11/95	DEB	JMM ASR	13.50	15.00	7.40	8.00	30.50	31.80	85.60	96.24	7.4	7.7	0	1	250.0	387.5	250.0	560.0	8.5	17.0
95	11	09/26/95	AP CC	AP	13.50	13.50	7.60	7.80	31.40	32.00	88.44	91.13	8.0	7.9	3	2	220.0	470.0	265.0	585.0	14.0	15.0
95	11	10/10/95	AP	AP	13.00	13.50	7.60	7.50	31.80	30.80	87.77	86.93	*	*	3	0	280.0	390.0	280.0	575.0	7.0	17.0
95	11	10/26/95	AP	AP	11.00	12.00	7.40	7.70	29.60	31.00	80.73	86.62	8.0	7.9	8	1	237.5	345.0	260.0	600.0	6.0	15.0
95	11	11/09/95	AJM AP	AP	8.00	8.00	8.70	8.70	27.80	26.60	87.70	87.00	7.9	7.8	19	8	117.5	277.5	150.0	650.0	-2.0	1.5
96	11	04/18/96	JW JP RW DE	DEB SAH	6.00	8.00	10.70	10.90	19.30	15.50	97.26	101.45	7.8	8.0	20	0	92.5	123.5	150.0	550.0	2.0	10.0
96	11	05/06/96	JP JW JS DE	JS RW JW	8.00	9.00	9.40	9.60	26.50	23.50	93.94	96.23	7.7	7.8	2	1	195.0	317.5	250.0	*	3.0	7.0
96	11	05/20/96	JS RW JW JP	JS RW JW	11.00	9.50	9.40	9.50	25.10	23.00	99.56	95.99	7.8	7.9	8	0	272.5	297.0	385.0	410.0	17.0	30.0
96	11	06/03/96	JS DE RW	JS JW RW	13.00	14.00	8.90	8.80	26.80	26.20	99.48	100.05	7.9	8.0	1	2	187.5	225.0	215.0	440.0	18.0	13.0
96	11	06/17/96	JS DE	JS	15.00	16.00	8.80	9.10	29.20	28.80	104.09	109.54	7.9	8.0	3	1	150.0	470.0	150.0	470.0	17.0	25.0
96	11	07/01/96	JS DE JW	JS	14.00	16.00	8.50	8.70	29.00	29.40	98.39	105.13	7.8	7.9	5	2	180.0	445.0	180.0	530.0	16.0	21.0
96	11	07/15/96	*	JS JP JW	*	19.00	*	7.70	*	25.60	*	96.33	*	7.8	*	7	*	330.0	*	500.0	*	21.0
96	11	07/30/96	JW RW	MM JG KD	16.00	18.00	8.20	8.00	28.70	29.80	98.65	100.77	7.8	8.0	2	0	205.0	395.0	205.0	435.0	17.0	24.0
96	11	08/14/96	JS JP	RW CC	16.00	17.00	8.00	8.40	30.50	30.70	97.35	104.38	9.0	7.4	2	1	240.0	430.0	240.0	500.0	14.0	22.0
96	11	08/29/96	JS RW	JW JP JS	17.00	19.50	7.50	7.80	30.30	30.90	92.96	101.77	7.8	7.8	2	1	180.0	420.0	180.0	435.0	15.0	23.5
96	11	09/16/96	JW JS	JW JS	7.00	7.00	7.20	7.60	28.30	30.20	71.16	76.11	8.0	7.8	3	2	290.0	395.0	290.0	520.0	16.0	20.0
96	11	09/30/96	DE JS	JS JW	14.00	14.00	7.70	7.90	30.20	30.50	89.83	92.34	7.8	7.9	2	0	220.0	406.0	220.0	535.0	14.0	23.0
96	11	10/15/96	JS DE JW	JS JW	11.00	12.00	8.40	8.40	30.20	31.10	92.00	94.56	7.6	7.8	0	100	220.0	395.0	220.0	440.0	5.0	10.0
96	11	10/29/96	JS JW	JS JW	11.00	11.00	8.30	8.40	24.50	22.50	87.57	87.50	7.6	7.6	15	12	175.0	165.0	235.0	530.0	7.0	12.0
96	11	11/06/96	RW	JS RW	10.00	9.00	3.70	8.30	27.70	24.70	38.99	83.86	*	*	2	3	270.0	262.5	300.0	470.0	10.0	11.0
97	11	04/23/97	LF, JW	RW	7.00	10.00	3.20	9.80	23.30	19.20	30.58	97.77	7.8	7.9	2	0	17.5	225.0	355.0	505.0	6.0	14.0
97	11	05/06/97	LF, JF, JW	RW, JW	7.50	8.00	9.70	*	25.20	26.50	94.98	#VALUE!	7.8	7.8	4	2	167.0	250.0	205.0	520.0	9.0	10.0
97	11	05/22/97	JS	KW, JW	8.00	11.00	10.40	9.70	28.50	26.4	105.34	103.61	7.7	7.9	5	1	220.0	208.0	220.0	490.0	10.0	17.0
97	11	06/05/97	RW, LF	AR, JW	12.00	15.00	10.10	9.30	29.10	28.85	112.20	109.76	8.0	8.0	*	*	120.0	330.0	120.0	560.0	12.0	15.0
97	11	06/23/97	JS	JS, JW, AA	14.00	16.00	9.40	9.40	29.00	28.40	108.81	112.87	7.8	7.9	0	1	205.0	295.0	205.0	520.0	23.0	28.0
97	11	07/07/97	JS	AM	14.00	15.50	9.10	9.10	30.10	31.30	106.09	110.20	7.8	8.0	1	1	230.0	427.5	230.0	525.0	19.5	31.5
97	11	07/21/97	JS	LF, JW	14.00	6.00	8.40	*	30.45	28.20	98.15	#VALUE!	7.6	7.8	3	3	195.0	545.0	195.0	545.0	16.0	21.0
97	11	08/04/97	LF	RW	16.00	16.00	7.70	8.80	31.30	30.30	94.19	106.95	7.1	7.8	0	*	160.0	400.0	160.0	500.0	18.0	21.0
97	11	08/19/97	LF, JF	LF, JF	15.00	17.50	7.95	7.40	30.45	31.10	94.80	93.08	8.0	7.8	1	0	200.0	475.0	200.0	540.0	15.0	22.0
97	11	09/03/97	JF, CH	LF, CH	18.00	18.00	7.70	7.50	32.10	30.80	98.41	95.07	8.0	7.8	0	1	150.0	507.5	150.0	540.0	20.0	21.5
97	11	09/18/97	LF, CH	LF, CH	17.00	18.00	8.50	8.50	31.00	31.20	105.82	108.02	7.7	7.8	*	*	195.0	417.5	195.0	565.0	16.0	27.0
97	11	10/02/97	LF, CH	LF, CH	10.00	13.00	7.60	8.00	31.30	31.90	82.05	92.45	*	*	4	0	265.0	432.5	265.0	540.0	5.0	15.0
97	11	10/17/97	LF,CH	LF,CH	11.00	14.00	8.70	9.10	31.50	31.45	96.12	107.03	7.8	7.8	1	9	245.0	342.5	245.0	595.0	7.0	15.0

Site 11- CML

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L °C	WTEMP-H °C	DO-L ppm	DO-H ppm	SAL-L ppt	SAL-H ppt	SAT-L %	SAT-H %	pH-L	pH-H	FECAL-L CFU/100ML	FECAL-H CFU/100ML	LP-L cm	LP-H cm	DEPTH-L cm	DEPTH-H cm	ATEMP-L °C	ATEMP-H °C
97	11	11/03/97	LF, CH	CH, JH	11.00	11.50	8.70	8.70	30.00	29.65	95.16	95.96	7.4	7.6	*	3100	197.5	195.0	275.0	545.0	8.0	15.0
98	11	05/12/98	LF,-CH	LF, CH	10.00	11.00	9.00	9.30	22.95	19.90	91.95	95.30	7.8	7.8	4	12	193.0	235.0	285.0	540.0	10.0	13.0
98	11	06/10/98	LF, LJ	LF, CH	11.00	13.00	9.20	9.20	28.75	27.40	99.80	103.23	7.8	7.8	3	0	230.0	410.0	230.0	490.0	14.5	23.0
98	11	07/09/98	LF,LJ	CH,RB	15.00	17.00	8.00	7.50	25.90	25.10	92.67	89.98	8.0	7.8	0	0	245.0	377.0	245.0	525.0	17.0	22.0
98	11	08/10/98	LF,CH	CH	15.00	15.00	8.10	8.20	30.50	31.60	96.62	98.51	7.8	7.8	3	1	210.0	405.0	210.0	550.0	20.0	24.0
98	11	09/09/98	CH,LF	CH,LF	14.00	15.00	7.30	7.80	32.10	31.10	86.23	93.40	8.0	7.1	2	4	230.0	327.5	230.0	590.0	14.0	17.0
98	11	10/07/98	LF, CH	CH, JM	9.00	10.00	7.95	8.10	31.75	31.95	84.22	87.84	7.4	7.7	1	0	205.0	422.5	205.0	570.0	4.0	14.0
98	11	11/05/98	LF,LJ	JM,CH	8.00	8.00	8.70	8.60	30.35	30.90	89.24	88.55	7.8	7.7	1	0	240.0	392.5	240.0	585.0	3.5	10.0
99	11	04/29/99	CH, AS	CH, AS	8.00	8.50	9.90	10.40	29.15	29.25	100.72	107.08	7.6	7.8	1	0	275.0	405.0	275.0	510.0	8.5	12.5
99	11	05/17/99	CH, AS	CH, BP	11.00	11.00	9.80	9.70	30.20	29.55	107.34	105.78	7.8	7.7	4	1	175.0	500.0	175.0	500.0	11.0	17.5
99	11	06/15/99	CH, AS	AS, CH	16.00	16.50	8.80	8.30	30.80	31.10	107.29	102.39	7.6	7.6	0	0	215.0	460.0	215.0	555.0	22.0	26.0
99	11	07/13/99	CH, AS	CH, AS	14.00	15.00	10.90	8.20	32.10	31.80	128.75	98.64	7.8	7.6	0	0	200.0	460.0	200.0	525.0	17.0	20.0
99	11	08/12/99	AS, CH	AS, CH	14.50	15.50	8.10	8.50	31.10	31.85	96.01	103.30	7.7	7.6	0	0	230.0	430.0	230.0	560.0	19.0	23.0
99	11	09/13/99	AS, CH	TS, AS	15.50	17.00	7.90	7.30	31.90	32.00	96.04	91.47	*	*	8	6	270.0	390.0	270.0	520.0	16.5	23.5
99	11	10/12/99	AS, BP	AS, TS	11.00	12.00	7.50	7.80	30.85	31.15	82.50	87.83	7.6	7.7	3	1	300.0	495.0	300.0	510.0	7.0	9.0
99	11	11/09/99	AS, CH	CH, JH	7.00	7.50	8.10	8.30	30.15	30.25	81.09	84.10	7.8	7.8	7	4	209.0	395.0	209.0	570.0	2.0	7.0
00	11	04/19/00	AS, TJ, JW, SC	AS, SC, TJ, JW	6.50	5.50	10.70	10.75	30.10	30.65	105.82	104.23	7.8	*	0	0	170.0	220.0	210.0	510.0	5.5	6.0
00	11	05/18/00	TJ, AS, JW	JW, TJ	11.00	11.00	9.25	9.15	28.40	27.80	100.11	98.63	7.8	*	2	2	217.5	255.0	220.0	260.0	13.0	18.0
00	11	06/19/00	JW, BJ, TJ	JW, BJ, TJ	14.00	14.00	8.10	8.20	28.90	28.20	93.70	94.43	7.7	7.7	3	2	245.0	392.0	245.0	550.0	18.0	20.0
00	11	07/17/00	JW, TJ	JW, BJ, TJ	16.00	18.00	8.20	8.40	31.30	30.80	100.30	106.48	7.8	*	3	0	265.0	365.0	265.0	520.0	16.0	20.0
00	11	08/15/00	JW, TJ	TJ, JW	18.00	18.50	9.10	7.00	29.90	30.10	114.70	89.18		*	5	2	275.0	430.0	275.0	500.0	18.0	21.0
00	11	09/14/00	JW, TJ	TJ, JW	15.00	15.00	7.05	8.00	31.70	31.10	84.75	95.80	8.1	*	3	2	260.0	415.0	260.0	530.0	13.0	18.0
00	11	10/16/00	JW	JW	10.00	10.00	7.50	8.10	30.00	31.30	80.26	87.45	6.7	7.7	0	1	245.0	330.0	245.0	540.0	6.0	3.0
00	11	11/13/00	TJ	JW	3.50	10.00	8.30	7.60	29.45	29.40	76.01	81.01	7.9	7.5	3	3	240.0	340.0	240.0	570.0	3.5	5.7
01	11	04/24/01	CM, TJ	BJ, TJ	7.50	8.50	10.40	10.20	27.10	18.35	103.14	97.78	7.9	7.9	2	0	233.0	390.0	233.0	510.0	7.0	13.0
01	11	05/23/01	TJ, CM	BJ	11.00	12.00	8.70	8.90	30.20	29.88	95.29	99.38	7.9	7.7	0	1	225.0	410.0	225.0	520.0	10.0	14.5
01	11	06/21/01	TJ	TJ	16.00	16.00	8.40	8.50	27.40	28.85	100.23	102.35	7.8	7.9	2	1	245.0	258.0	245.0	455.0	14.0	16.5
01	11	07/23/01	TJ	BJ	15.00	16.50	8.50	10.60	30.50	30.30	101.39	130.09	7.9	8.3			185.0	362.5	185.0	525.0	20.0	21.0
01	11	08/20/01	TJ, ADS	TJ, AD	15.00	17.00	7.80	7.85	33.10	32.90	94.63	98.93	*	*	0	24	180.0	373.0	180.0	545.0	18.0	22.0
01	11	09/18/01	TJ, ADS	AS, TJ	13.50	15.00	7.60	7.10	32.90	32.90	89.32	86.03	7.8	7.9	0	0	193.0	230.0	193.0	560.0	11.0	21.0
01	11	10/17/01	TJ, ADS	AD, TJ	12.00	12.50	8.30	8.20	31.55	32.55	93.71	94.18	7.8	7.8	7	0	220.0	365.0	220.0	570.0	13.0	13.0
01	11	11/01/01	AD, CD	AD	9.00	9.50	8.70	8.00	31.65	31.95	92.10	85.80	7.8	NA	5	1	280.0	410.0	280.0	515.0	12.0	11.0
02	11	04/29/02	AD, TJ	AD, TJ	7.00	7.00	9.60	9.60	30.13	28.90	96.09	95.28	NA	NA	*	*	210.0	285.0	210.0	545.0	2.0	4.0
02	11	05/28/02	TJ, CH	TJ, CH	10.50	12.00	8.60	8.40	29.65	28.50	92.82	92.95	7.8	7.6	0	1	195.0	320.0	195.0	505.0	15.0	18.0
02	11	06/25/02	AD, TJ	AD, TJ	13.00	15.00	7.80	8.00	29.50	30.00	88.72	95.12	7.8	7.8	3	0	205.0	340.0	205.0	505.0	15.0	21.0
02	11	07/25/02	TJ, ADS	TJ, AD	15.00	17.50	7.80	8.00	32.40	31.90	94.20	101.14	7.6	7.9	1	0	220.0	390.0	220.0	495.0	14.0	23.0
02	11	08/26/02	TJ	TJ	17.50	17.50	7.40	7.50	33.20	31.90	94.34	94.82	7.9	7.8	0	0	255.0	365.0	255.0	495.0	20.0	22.0
02	11	09/23/02	AS, TJ	AS	15.50	17.00	6.90	7.00	33.20	33.05	84.60	88.30	7.7	7.7	37	1	250.0	425.0	250.0	500.0	18.0	20.0
02	11	10/22/02	AD, TJ	TJ	10.0	10.0	7.2	7.2	33.2	33.2	78.75	78.75	7.8	7.9	2	1	260.0	360.0	260.0	495.0	1.0	10.0
02	11	11/06/02	TJ	TJ	9.0	9.0	7.8	7.7	35.0	33.7	84.52	82.68	7.9	7.9	0	2	255.0	250.0	255.0	510.0	2.0	3.0

Site 12 - Sewage Treatment Plant

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L °C	WTEMP-H °C	DO-L ppm	DO-H ppm	SAL-L ppt	SAL-H ppt	SAT-L %	SAT-H %	pH-L	pH-H	FECAL-L CFU/100ml	FECAL-H CFU/100ml	LP-L cm	LP-H cm	DEPTH-L cm	DEPTH-H cm	ATEMP-L °C	ATEMP-H °C
92	12	04/14/92	RD CB CY	RD	7.5	6.0	9.6	12.4	4.3	3.5	82.07	102.21	7.5	7.4	*	*			*	*	1.5	2.5
92	12	05/01/92	AR CY CB	CY CD	11.5	10.5	9.1	9.1	4.1	3.9	85.83	83.79	7.5	7.3	*	*			*	*	12.0	19.0
92	12	05/15/92	AR JF	KM	14.0	17.5	7.8	9.7	1.6	1.5	76.21	102.67	7.5	7.3	*	*			*	*	12.0	15.0
92	12	06/01/92	CY AF	AF CY	16.0	15.0	6.9	9.0	3.8	3.0	72.10	91.14	7.2	7.1	*	*	20	80	*	*	8.0	10.0
92	12	06/03/92	JF RC RM	JF CB RC	22.0	25.0	6.4	8.2	9.6	5.5	77.33	101.86	6.7	7.3	*	*		85	*	*	26.0	32.0
92	12	06/15/92	KB JF	KB JF	19.0	23.0	6.5	8.0	3.7	4.2	71.77	95.70	7.0	7.1	*	*	*	*	*	*	29.0	22.0
92	12	06/30/92	JF RC RM	JF CB RC	22.0	25.0	6.4	8.2	9.6	5.5	77.3	102.5	6.7	7.3	2	23	*	85	*	*	26.0	32.0
92	12	07/13/92	JF RN RC SC	RM JF CB RC	22.5	25.0	7.5	6.5	8.1	5.9	90.73	81.41	7.1	7.0	456	288			*	*	24.0	33.0
92	12	07/28/92	SC CS JF	RM CB JF SC	21.0	23.5	4.6	8.6	3.9	7.3	52.89	105.55	7.2	7.1	30	460			*	*	22.0	25.0
92	12	08/13/92	RC CB RM JF	RM JF CB RC	21.0	22.0	6.3	8.2	5.1	4.7	72.90	96.51	7.6	7.6	0	200			*	*	22.0	25.0
92	12	08/27/92	RC SC CB JF	RC SC KC JF	22.0	25.0	8.4	8.4	3.3	4.5	98.14	104.44	7.0	7.2	1650	40			*	*	21.0	30.0
92	12	09/11/92	RC JF SC RM	AF JF	21.0	20.0	5.7	8.0	3.3	5.1	65.33	90.78	7.1	7.0	670	4670			*	*	20.0	24.0
92	12	09/25/92	RC RM SC CS	RM RC SC	17.0	18.0	7.2	8.4	3.2	2.9	76.13	90.51	6.4	6.0	160	20			*	*	5.0	16.0
92	12	10/12/92	RC KW SC	RC SC	18.0	14.5	6.3	8.9	4.3	4.6	68.40	89.95	7.4	7.2	100	330	*	*	*	*	14.0	18.0
92	12	10/26/92	RC	CS	12.0	11.0	9.3	10.8	5.9	1.3	89.63	99.14	7.2	7.0	*	90			*	*	7.0	11.0
92	12	11/09/92	RC CS	RM RD MA SA	13.0	10.0	10.1	10.0	3.4	5.5	98.14	91.86	7.0	7.1	30	30	*		*	*	15.0	*
93	12	04/21/93	CB RD KB	CB RC KW	12.0	12.0	7.6	11.0	2.4	2.7	71.81	104.12	7.3	7.1	70	100	20.0		20.0	22.0	18.0	31.0
93	12	05/06/93	AS CB RM	KB CB KW	14.5	19.0	6.4	9.1	3.1	3.7	64.15	100.48	7.3	7.3	40	560	*	40.0	*	40.0	21.0	32.0
93	12	05/20/93	CB RC	AS SC	17.0	17.0	5.6	9.1	3.5	3.2	59.31	96.22	*	7.1	100	380	30.0	75.0	30.0	75.0	16.0	18.0
93	12	06/03/93	AS SC RC	RC KB	16.5	19.0	6.6	7.5	1.8	5.1	68.53	83.44	6.8	6.8	100	160	*	*	*	*	20.0	21.0
93	12	06/23/93	KB	KB FB	20.0	21.5	5.1	9.2	1.4	7.0	56.75	108.57	6.6	6.8	10	500	*	*	*	*	30.0	27.0
93	12	07/06/93	CS RC	RC CS	26.0	25.0	7.9	10.9	16.0	17.8	106.30	145.54	7.3	7.4	10	30	*	*	*	*	30.0	36.0
93	12	07/22/93	KB RM	RC RN	23.0	23.0	6.2	8.1	17.7	23	101.69	107.47	6.9	7.3	10	80	*	*	*	*	20.0	24.0
93	12	08/03/93	RC	KB CS	25.0	26.0	8.3	10.4	18.5	16.1	111.26	140.02	7.2	7.0	130	600	*	*	*	*	28.0	32.0
93	12	08/19/93	JF SC	HP JF	22.0	23.5	4.7	6.8	1.8	8.8	54.49	84.13	7.1	7.3	0	2300	*	*	*	*	20.0	33.0
93	12	09/02/93	SC HP AR	JN KF JF	23.0	24.5	5.1	6.4	0.9	22.5	59.98	86.97	6.9	7.0	0	60	*		*	*	30.5	39.5
93	12	09/20/93	AR JJ	KB AF	17.0	16.5	6.4	7.5	25.4	20.2	76.93	86.47	7.1	7.4	80	800					18.0	18.5
93	12	10/04/93	BC AR	AR JJ	17.0	15.0	7.9	9.2	3.4	1.3	83.62	92.31	7.2	7.1	*	150	20.0	90.0	20.0	90.0	22.0	22.0
93	12	10/18/93	RC KB CB	KB CS	15.5	16.0	6.8	10.0	4.4	5.4	70.13	104.81	7.3	7.1	*	*	30.0	90.0	30.0	350.0	19.5	21.0
93	12	11/09/93	KF SC HP	SC RC MF	13.0	8.5	4.5	9.4	0.3	1.9	42.98	81.62	7.0	7.4	*	*		*		*	11.0	17.0
94	12	04/26/94	DC KF RC	RM RC PK KF	11.5	11.0	5.1	10.6	0.7	0.6	47.19	96.92	7.4	7.0	*	*	*	*	*	*	10.0	8.0
94	12	05/10/94	DC KF HP AT	HP AF JF	14.0	15.0	5.6	10.5	1.0	0.2	54.89	104.72	6.9	7.3	10	30	*	*	*	*	21.0	20.0
94	12	05/25/94	KF RC DC SS	KF RC HP DF	15.0	10.0	8.2	8.7	1.2	0.6	82.23	77.72	6.8	6.9	20	160	6.0	6.0	6.0	6.0	13.0	11.0
94	12	06/09/94	RC HP AF	DF RC HP	17.5	21.0	4.7	10.3	0.6	4.0	49.51	118.49	7.1	6.9	90	220	6.0	6.0	6.0	6.0	17.0	27.0
94	12	06/23/94	SD RM	SD PC DC	19.5	23.5	3.3	4.8	1.1	3.1	36.30	57.63	7.3	7.1	0	590	6.0		6.0	*	25.0	28.0
94	12	07/11/94	CS KF RM SD	CS PC SD	22.0	27.0	4.1	7.3	0.3	8.3	47.16	95.95	7.1	7.6	10	100	5.0	5.0	5.0	5.0	24.0	30.5
94	12	07/25/94	CS JN	JN CS	24.0	28.0	3.6	6.6	1.9	11.4	43.36	89.72	6.9	7.4	1690	1	*	*	*	*	28.0	33.0
94	12	08/09/94	PC KF SD	KF MD SD	22.5	25.5	6.9	9.3	7.0	12.0	82.98	121.37	7.1	7.8	*	*	*	*	*	*	22.0	29.0
94	12	08/22/94	KF DC CS	RM AR	22.0	20.5	7.7	8.0	1.4	2.3	89.08	90.32	7.4	7.4	*	*	*	10.0	*	10.0	19.0	17.0
94	12	09/07/94	AR JJ	AF PC DF DC	21.0	20.0	5.3	8.0	1.4	2.4	59.57	89.49	7.2	7.6	0	0	*	*	*	*	18.0	25.0
94	12	09/21/94	JN PC DC CS	RM HP SD	20.5	21.0	4.9	8.9	1.1	2.4	54.97	101.52	6.9	7.0	*	*	*	*	*	*	18.0	24.0
94	12	10/06/94	MG SS KR SD	KF DC SS	17.0	14.0	16.5	9.1	0.6	2.4	172.03	89.89	7.1	7.1	*	*	*	*	*	*	13.0	14.0
94	12	10/20/94	SS RL BB	RL SS SD	16.0	13.0	7.0	10.0	0.0	0.0	71.24	95.35	7.1	7.1	*	*	*	*	*	*	15.0	15.0
94	12	11/07/94	SS AF		16.0	*	*	*	0.0	*	*	*	7.3	*	*	*	0.5	*	0.5	*	10.0	*
95	12	04/18/95	AF AP	AP	11.5	11.0	4.4	10.9	9.5	0.0	42.32	99.33	7.2	7.4	*	6	*	*	3.0	45.0	19.0	18.0
95	12	05/01/95	AF KF	AF JF	13.0	13.0	4.6	9.7	0.5	0.0	43.98	92.49	7.3	7.3	NV	33	*	*	*	65.0	9.5	12.0
95	12	05/15/95	AF AR	PC AF SS	14.5	13.0	4.1	9.7	0.0	0.8	40.40	92.88	6.9	7.0	0	0	*	*	*	*	*	10.0
95	12	05/30/95	AF KF	AF OP	18.0	17.0	4.4	8.0	0.3	1.0	46.76	83.59	*	*	*	190	3.0	45.0	3.0	60.0	22.0	25.0
95	12	06/13/95	AF AC	AC AF	19.0	19.5	8.0	8.7	0.6	1.2	86.89	95.74	6.9	7.1	0	570	*	*	*	90.0	19.5	16.0
95	12	06/27/95	AF AC	AF AC JO	21.0	24.0	4.0	7.9	0.0	3.8	45.06	96.09	7.1	7.6	470	TNTC	*	50.0	*	50.0	21.0	22.0
95	12	07/12/95	AF	AF AC JAM	22.0	25.0	5.2	6.7	0.8	8.9	59.97	85.24	7.3	6.9	1	650	5.0	70.0	5.0	95.0	18.5	26.0
95	12	07/27/95	OP AF	AF	23.5	29.0	1.9	3.7	1.2	7.4	22.59	50.12	6.9	6.4	50	TNTC	*	*	*	50.0	26.0	34.0
95	12	08/10/95	AF OP	AF OP	23.0	26.5	3.4	7.8	1.6	3.2	40.13	98.97	6.9	6.9	10	NV	*	*	<5.0	90.0	21.0	31.0
95	12	08/28/95	JMM JAM	JMM AF	21.5	22.0	3.8	6.0	0.8	16.8	43.40	75.44	7.2	7.3	0	80		62.5	*	90.0	21.5	24.0
95	12	09/11/95	AF JM	JF	19.5	20.0	4.4	11.7	0.6	22.2	48.27	146.18	7.1	7.4	10	10	<5.0	50.0	<5.0	50.0	16.0	24.0
95	12	09/26/95	AF JM	AM AF	18.5	15.5	4.6	6.4	0.5	23.5	49.43	73.78	7.4	7.3	0	70	10.0	50.0	10.0	50.0	15.0	14.0
95	12	10/10/95		AF AC	*	16.5	*	9.3	*	1.5	*	96.41	*	7.3	NA	40	*	92.5	*	100.0	*	22.0
95	12	10/26/95	AF GC DB	AF AC	16.0	13.0	5.5	9.6	0.0	0.4	55.97	91.74	6.9	6.9	0	30	*	50.0	*	65.0	12.0	13.5

Site 12 - Sewage Treatment Plant

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L °C	WTEMP-H °C	DO-L ppm	DO-H ppm	SAL-L ppt	SAL-H ppt	SAT-L %	SAT-H %	pH-L	pH-H	FECAL-L CFU/100ml	FECAL-H CFU/100ml	LP-L cm	LP-H cm	DEPTH-L cm	DEPTH-H cm	ATEMP-L °C	ATEMP-H °C
95	12	11/09/95	AF RP	AC	14.0	6.0	6.4	11.6	0.0	0.0	62.39	93.69	7.1	7.2	0	160	10.0	55.0	10.0	70.0	4.0	-2.0
96	12	04/18/96	JD AR AF	JD AF OPF	7.0	9.0	11.9	12.5	0.5	0.0	98.8	108.7	7.3	6.9	50	50	60.0	82.5	65.0	90.0	18.0	22.0
96	12	05/06/96	JF EC KM ED	DP EC KF	13	12	7.2	10	0.6	0	68.88	93.24	7	6.9	40	40	5.0	5.0	5.0	5.0	12	12
96	12	05/20/96	DB AM	JM AC	16	18	5.2	9.3	0	0	52.92	98.67	6.6	7.3	10	110	5.0	90.0	5.0	90.0	26	29
96	12	06/03/96	DB RB EB	KF DB	18	18	4.5	8.9	0	0.5	47.74	94.68	6.9	7.1	3	180	10.0	95.0	10.0	95.0	27	18
96	12	06/17/96	AC DB	SH AM	20	26	2.8	7.6	0.6	1.8	31.03	94.9	6.8	7.5	20	170	5.0	75.0	5.0	75.0	29	31
96	12	07/01/96	DB	AM KF	19.5	26	4	7.3	*	3.8	43.74	92.09	6.5	7.3	4	210	5.0	67.5	5.0	105.0	22	28
96	12	07/15/96	KF AF	AF KF	20	22.5	5.4	8.4	*	0.2	59.65	97.47	7.1	7.2	10	440	30.0	85.0	30.0	85.0	23	26.5
96	12	07/30/96	AF BP	AF BP	21	23	4.3	8.3	0	1.6	48.44	97.96	7.1	7.3	0	260	<5	92.5	<5	105.0	25	24
96	12	08/14/96	AF AA ZA	AF AA ZA	22	25	2.5	7.3	0.1	6.8	28.15	91.86	7.3	7.3	50	108	10.0	47.5	10.0	85.0	22	34
96	12	08/29/96	AF	AA ZA	21.5	24	3.1	6.6	0	14.1	35.26	84.81	6.6	7	0	128	5.0	55.0	5.0	100.0	24	29
96	12	09/16/96	NO DOCK	NO DOCK	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
96	12	09/30/96	PA ED KM NK	PA AA	28	16	1.3	4.3	3.2	4.5	16.94	44.85	*	*	0	0	30.0	72.5	30.0	100.0	20	15
96	12	10/15/96	NK KM ED KF	PA	16	12	2.8	7	0.5	5.9	28.57	67.47	7.1	7	0	20	<30.0	60.0	<30	110.0	8	15
96	12	10/29/96	ED KM KF PA	PA KM KF	14	10	5.5	9.6	0.8	0.6	53.85	85.76	7	7.3	2	2	30.0	80.0	30.0	150.0	7	9
96	12	11/06/96	KM PA KF PA	KM PA KF ED	14	8	5.4	10.8	0.8	0	52.87	91.66	7	7.4	0	0	40.0	65.0	40.0	70.0	11	8
97	12	04/23/97	ED KM KF	KM, KF,. HH, PA	11.0	11.0	10.0	10.9	0.3	0.3	91.3	99.5	7.3	7.2	24	6	20.0	110.0	20.0	150.0	15.0	14.0
97	12	05/06/97	PA, HH	PA, HH	12.5	12.0	7.4	10.0	0.0	0.6	69.8	93.5	6.9	7.1	4	70	5.0	100.0	5.0	150.0	14.0	14.0
97	12	05/22/97	HH, KM, KF, PA	KF, KM, PA	13.0	15.0	6.9	10.2	0.4	0.0	65.9	101.6	7.2	7.7	2	64	10.0	120.0	10.0	170.0	13.0	17.0
97	12	06/05/97	ED, NK, KM, HH	AF, OP	16.0	18.5	6.5	9.0	1.9	1.8	66.8	97.4	7.1	6.9	14	140	20.0	85.0	20.0	85.0	16.0	16.0
97	12	06/23/97	AF, OP, AA	OP, AF	22.0	25.0	5.9	7.4	1.4	6.9	68.3	93.2	7.0	7.0	10	310	5.0	67.5	5.0	90.0	30.0	28.0
97	12	07/07/97	OP, RP	OP, AF	21.0	25.0	8.8	8.1	0.0	6.8	99.1	101.9	7.2	7.1	*	*	5.0	53.5	5.0	65.0	23.0	*
97	12	07/21/97	OP, RP	OP, AF	21.0	21.0	6.8	9.1	1.8	3.1	77.3	104.2	7.5	7.3	24	58	5.0	90.0	5.0	100.0	20.0	19.0
97	12	08/04/97	OP, RP	AM	22.0	22.5	5.8	8.8	0.1	7.7	66.6	106.2	6.8	8.0	8	126	5.0	95.0	5.0	100.0	20.0	32.0
97	12	08/19/97	AF, OP	AF, OP	21.5	23.0	6.0	8.6	0.0	12.9	68.2	107.8	7.1	7.1	6	20	2.5	45.0	5.0	70.0	*	23.0
97	12	09/03/97	AR, SJ	MA,AR	21.0	21.5	5.8	7.9	0.0	13.9	65.3	96.8	6.9	7.3	10	1	5.0	92.5	5.0	105.0	16.0	20.5
97	12	09/18/97	BS, AB	AB	20.0	22.0	6.2	8.3	0.0	7.8	68.5	99.3	7.1	7.3	*	*	5.0	60.0	20.0	75.0	23.0	28.0
97	12	10/02/97	AM, AR	JW, MA	16.0	17.0	6.1	7.9	0.0	13.8	62.1	88.6	6.9	7.4	0	10	5.0	82.0	5.0	82.0	14.0	14.0
97	12	10/17/97	KG, JW	AF, OP	16.0	24.0	2.6	9.5	0.6	11.4	26.0	120.3	6.5	7.1	2	29	5.0	115.0	5.0	115.0	8.0	16.0
97	12	11/03/97	AA, CC	AF, OP	15.0	11.0	6.5	5.1	0.0	0.0	64.8	46.5	6.8	7.0	15	TNTC	30.0	35.0	30.0	85.0	15.0	19.0
98	12	05/12/98	MH, JM	MH, JM	12.5	13.0	8.9	10.2	0.7	0.0	84.2	97.3	6.9	7.1	TNTC	520	10.0	70.0	10.0	120.0	22.5	20.0
98	12	06/10/98	RB, CC	RB	18.5	22.0	5.0	8.0	0.1	1.6	53.6	92.6	7.3	7.2	0	92	10.0	70.0	10.0	70.0	21.0	22.0
98	12	07/09/98	OP,JM	JM,OP	20.0	25.0	5.3	8.3	0.0	0.9	58.5	101.3	7.0	7.6	3	54	10.0	90.0	10.0	90.0	20.0	22.0
98	12	08/10/98	OP,JM	OP, JM	23.0	26.0	5.0	8.7	1.2	14.3	58.9	116.0	7.4	7.4	9	860	10.0	50.0	10.0	50.0	28.0	32.0
98	12	09/09/98	CC, PS	AF,OP	21.0	19.5	4.9	7.6	1.2	17.0	55.5	91.2	7.1	7.4	1	0	10.0	35.0	10.0	35.0	18.0	14.5
98	12	10/07/98	PS, BT	AF, OP	17.0	15.0	*	9.7	0.0	17.0	*	106.4	7.4	7.6	2	2	10.0	100.0	10.0	100.0	10.0	16.0
98	12	11/05/98	PS,CS**10:00AM	CS,PS	14.5	7.5	7.1	11.5	1.0	2.9	70.3	98.0	7.1	7.1	0	0	10.0	10.0	10.0	10.0	10.0	9.0
99	12	04/29/99	PS, AF	PS	13.5	13.0	7.6	10.3	0.8	0.4	73.57	98.42	7.0	7.1	0	0	10.0	90.0	10.0	90.0	13.0	15.0
99	12	05/17/99	PS, AF	PS, LF	17.0	19.0	6.8	8.3	0.9	1.9	71.01	90.77	7.4	7.4	0	20	10.0	77.5	10.0	85.0	25.0	22.0
99	12	06/15/99	DG, PS	LF, PS	21.5	24.0	2.6	8.7	0.2	10.8	29.60	109.78	6.5	7.8	30	20	10.0	47.5	10.0	80.0	30.0	27.5
99	12	07/13/99	PS,JF	PS, LF	21.0	21.5	6.5	7.6	0.0	7.9	73.22	90.12	7.0	7.4	10	30	10.0	67.5	10.0	75.0	19.0	25.0
99	12	08/12/99	PS, BT, AF	PS, DG	23.0	23.0	6.1	6.4	0.5	19.8	71.59	83.34	7.4	7.4	2	0	10.0	72.5	10.0	100.0	26.5	31.0
99	12	09/13/99	PS, DG	PS, LF	22.0	21.0	6.3	8.1	0.6	0.6	72.58	91.53	7.6	7.4	6	130	10.0	90.0	10.0	90.0	26.0	22.0
99	12	10/12/99	PS,DG	LF,PS	17.0	12.5	7.4	9.4	0.9	0.7	77.26	88.97	7.6	7.4	2	28	10.0	100.0	10.0	100.0	14.0	13.0
99	12	11/09/99	PS,DG	PS,DG	13.0	9.0	6.0	10.2	0.3	0.3	57.31	88.81	7.4	7.3	20	22	10.0	95.0	10.0	95.0	4.0	11.0
00	12	04/19/00	PS, AB, OF	PS, LF	10.00	10.00	7.50	11.80	0.25	0.25	66.87	105.20	7.20	7.30	*	41	10.00	95.00	10.00	95.00	5.00	7.00
00	12	05/18/00	PS, DG	LF, PS	18.50	20.50	6.00	9.00	0.50	0.00	64.47	100.39	7.00	7.00	2	30	10.00	60.00	10.00	60.00	20.00	23.00
00	12	06/19/00	PS, DG	LF, PS	18.50	20.50	6.00	9.00	0.50	0.00	64.47	100.39	7.00	7.00	1	18	0.00	60.00	0.00	60.00	20.00	23.00
00	12	07/17/00	PS, DG, MG	PS, LF	20.00	22.00	6.30	8.50	0.00	0.00	69.59	97.62	7.00	7.10	1	10	10.00	70.00	10.00	70.00	19.00	22.00
00	12	08/15/00	PS, DG	PS, DG, MG	20.50	21.50	6.90	8.40	0.00	0.10	76.96	95.59	7.10	7.00	20	12	10.00	90.00	10.00	90.00	20.00	23.00
00	12	09/14/00	AFM RP	AF, RP	21.00	24.00	6.20	7.30	0.00	7.40	69.84	90.48	7.30	7.30	2	40	20.00	90.00	20.00	90.00	14.00	28.00
00	12	10/16/00	PS, DG	AF, RP	18.50	0.00	6.40	10.20	0.00	0.00	68.59	70.43	7.10	7.20	0	70	5.00	125.00	5.00	125.00	7.00	4.00
00	12	11/13/00	AF, DPP	PS, DG	12.00	9.50	8.20	10.60	0.60	0.50	76.71	93.52	7.40	7.20	2	40	10.00	75.00	10.00	75.00	8.50	10.00
01	12	04/24/01	PS, KM	PS, KM	13.5	16.5	7.2	9.5	0.5	0.0	69.60	97.7	7.1	7.1	0	0	Outflow Pipe	100.0	Outflow Pipe	100.0	21.0	34.0
01	12	05/23/01	NH, DB	NH, DB	16.0	18.0	6.6	9.0	1.2	1.9	67.6	96.5	7.0	7.4	0	20	Outflow Pipe	97.5	Outflow Pipe	105.0	20.5	21.0
01	12	06/21/01	NH, DL	NH, DL	19.0	22.5	*	7.8	0.0	0.2	*	90.5	6.8	7.1	0	0	Outflow Pipe	87.0	Outflow Pipe	87.0	22.0	21.0
01	12	07/23/01	DL, DB	DL, DB	23.0	28.0	5.8	7.9	0.7	3.2	68.1	103.0	6.8	6.9			Outflow Pipe	70.0	Outflow Pipe	70.0	28.0	32.0
01	12	08/20/01	DL, DB	DL, DB	23.0	24.0	5.9	8.1	1.6	8.5	69.6	101.0	7.1	6.9	*	*	Outflow Pipe	55.0	Outflow Pipe	125.0	22.0	23.0

Site 12 - Sewage Treatment Plant

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L °C	WTEMP-H °C	DO-L ppm	DO-H ppm	SAL-L ppt	SAL-H ppt	SAT-L %	SAT-H %	pH-L	pH-H	FECAL-L CFU/100ml	FECAL-H CFU/100ml	LP-L cm	LP-H cm	DEPTH-L cm	DEPTH-H cm	ATEMP-L °C	ATEMP-H °C
01	12	09/18/01	DB, NH	DB, LA	21.0	21.0	6.3	8.7	0.0	17.3	71.0	107.7	7.2	7.4	1	0	Outflow Pipe	67.5	Outflow Pipe	100.0	11.0	24.0
01	12	10/17/01	DL, DB	DL, DB	18.0	13.0	6.0	9.2	0.3	2.1	63.8	88.7	7.1	6.7	1	12	Outflow Pipe	100.0	Outflow Pipe	100.0	11.0	12.0
01	12	11/01/01	DL, DB	DL	13.0	10.0	6.6	10.4	0.0	1.9	62.9	93.6	6.9	7.1	4	14	Outflow Pipe	100.0	Outflow Pipe	100.0	7.0	13.0
02	12	04/29/02	AF, DD	AF, RP	9.0	8.0	11.5	11.4	0.9	0.1	100.5	96.8	6.9	6.9	36	12	30.0	60.0	30.0	60.0	5.0	8.0
02	12	05/28/02	LA, BK	BK, LA	18.0	19.5	8.3	9.2	1.8	0.0	88.9	100.1	7.1	7.1	102	98	65.0	70.0	60.0	70.0	21.0	19.0
02	12	06/25/02	NH, KR	AF, RP	22.0	23.0	9.0	8.6	1.2	0.3	104.0	100.8	7.1	7.1	84	164	50.0	40.0	50.0	40.0	25.0	27.0
02	12	07/25/02	LC, CD	LC, JF	23.0	23.0	8.8	8.1	6.3	2.8	106.4	96.2	7.2	7.4	160	84	NA	15.0	NA	15.0	20.5	22.0
02	12	08/26/02	JF, LA	JF, LA	24.0	24.5	9.0	12.1	25.9	27.7	123.6	169.5	7.3	7.9	70	34	0.0	35.0	0.0	50.0	25.0	31.0
02	12	09/23/02	LA	LA	22.0	*	7.5	*	15.6	*	93.7	*	7.5	*	>600	*	37.5	*	45.0	*	24.0	*
02	12	10/22/02	LA, JF	LA, JF	8.5	10.0	9.90	10.40	3.60	1.10	86.8	93.2	7.1	7.1	108	58	0.0	0.0	30.0	55.0	3.0	13.0
02	12	11/06/02	LA, JF, BK	LA, JF, BK	4.5	6.0	11.60	12.00	4.40	0.90	92.5	97.4	7.1	7.1	>600	200	0.0	0.0	30.0	55.0	5.0	8.0

Site 13 - Marina Falls Landing

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L	WTEMP-H	DO-L	DO-H	SAL-L	SAL-H	SAT-L	SAT-H	pH-L	pH-H	FECAL-L	FECAL-H	LP-L	LP-H	DEPTH-L	DEPTH-H	ATEMP-L	ATEMP-H
					°C	°C	ppm	ppm	ppt	ppt	%	%			CFU/100ml	CFU/100ml		cm			°C	°C
92	13	04/17/92	BD AF KB	KB	7.0	7.0	12.2	12.4	1.6	1.6	101.55	103.63	7.3	7.3					*	*	1.5	2.5
92	13	05/01/92	RC RD	RC RD	11.0	14.0	10.8	10.6	1.5	1.7	98.79	103.81	7.1	7.5	*	*		220	*	*	15.0	21.0
92	13	05/15/92	CB		6.0	16.0	9.8	9.9	1.7	0.5	79.93	101.03	7.5	7.4	*	*		165	*	*	13.0	16.0
92	13	06/01/92	CY SC	CY SC	16.5	16.0	8.8	9.2	5.3	2.6	93.14	94.96	6.9	7.1	*	*		120	*	*	10.5	11.0
92	13	06/15/92	RC AF KC	RC	21.0	21.8	7.5	8.3	3.9	2.1	86.23	94.86	7.1	7.3	*	*	90	120	*	*	22.5	27.0
92	13	06/30/92	JF CS	JF RC RM	22.0	24.0	7.5	7.1	5.2	2.0	88.51	85.80	6.9	7.3	70	70	100	135	*	*	26.0	*
92	13	07/13/92	JF RM RC SC	RM JF CB RC	23.0	25.0	7.4	7.4	4.7	2.0	88.16	90.83	7.3	7.3	590	480	100	70	*	*	24.0	31.0
92	13	07/28/92	SC CS JF	RM RC JF SC	21.0	23.0	7.2	8.2	5.1	4.5	83.31	98.25	7.0	7.1	670	290	120	90	*	*	22.0	27.0
92	13	08/13/92	RC KC CB RM JF	KC JF RC RM	21.0	22.0	12.2	5.4	2.6	2.6	139.31	62.86	7.6	7.5	0	100	130	140	*	*	19.5	21.0
92	13	08/27/92	RC SC KC CB JF	RC SC KC JF	22.0	24.0	10.1	8.4	6.6	3.5	120.08	102.01	6.7	7.2	80	40		170	*	*	22.0	29.0
92	13	09/11/92	RC JF SC RM	CB	18.5	19.5	9.0	8.3	4.1	5.9	98.59	93.66	7.0	7.0	720	390		215	*	*	20.0	24.0
92	13	09/25/92	RM RC SC CB	SC RM RC CS	14.0	18.0	8.5	9.1	7.5	1.6	86.39	97.37	5.7	6.6	130	160	30	170	*	*	5.0	16.0
92	13	10/12/92	RM CS	KW RC	12	15	8.5	11.5	5.8	1.7	81.88	115.63	7.1	7.3	260	230		160	*	*	19	21
92	13	10/26/92	RC CS SC	CS	8.0	9.0	12.6	10.9	4.3	0.0	109.62	94.77	6.9	7.1	70	60	125	140	*	*	8.0	11.0
92	13	11/09/92	AR RM	AR RM	3.0	4.0	13.8	12.5	0.1	4.7	103.16	98.61	7.3	7.3	30	60	145	95	*	*	-2.0	9.0
93	13	04/21/93	RC KW KB CB	CB SC	13.0	12.0	11.1	10.8	1.0	2.8	106.43	101.81	*	*	70	90	*	*	*	*	0.8	25.0
93	13	05/06/93	KB CB	KB KW AS	18.0	*	8.9	8.2	2.4	3.4	95.64	*	7.6	7.0	180	47	*	*	*	*	21.0	26.0
93	13	05/20/93	SC RC CB	RC AS	16.5	16.0	8.9	9.2	1.9	1.8	92.47	79.31	*	*	350	160	*	*	*	*	11.0	15.0
93	13	06/03/93	CB SC RC AS	CB RC	16.5	17.5	8.8	9.1	0.8	2.2	89.95	96.68	7.0	7.1	280	230	105.0	120.0	115.0	310.0	21.0	28.0
93	13	06/23/93	CS AS	JF KD AS	25.0	23.5	8.5	7.4	8.2	4.7	107.75	89.59	7.3	6.9	1700	430	40.0	80.0	60.0	330.0	30.0	26.0
93	13	07/06/93	CS RC	RC CS	25.5	26.0	7.4	8.4	5.7	3.2	94.68	92.44	7.3	7.4	800	1100	100.0	80.0	170.0	310.0	30.0	35.0
93	13	07/22/93	CS	KB CS	22.5	22.0	8.9	7.5	9.9	4.5	108.72	88.18	7.1	7.5	1500	1600	120.0	120.0	170.0	320.0	28.0	27.0
93	13	08/03/93	RC RM	RC CS	25.0	24.5	8.9	8.1	5.1	5.4	111.00	103.03	7.6	7.1	500	220	130.0	90.0	160.0	315.0	27.0	32.0
93	13	08/19/93	KB AS	JF RC	22.0	24.0	6.6	7.3	8.4	7.4	79.23	89.86	7.3	7.4	900	320	95.0	120.0	95.0	370.0	27.0	27.5
93	13	09/02/93	RM HP CS	CS HP	23.5	25.0	7.4	7.0	14.2	8.8	94.27	89.01	7.5	7.3	510	280	180.0	180.0	180.0	320.0	28.5	39.5
93	13	09/20/93	KB JN	MS JN RM	18.0	16.0	8.1	8.1	9.9	13.8	90.69	89.03	7.3	7.0	430	400	120.0	60.0	120.0	355.0	17.0	15.0
93	13	10/04/93	AR BC	JJ AR	15.0	14.0	9.6	9.8	1.3	2.7	96.32	96.96	7.3	7.2	*	130	190.0	195.0	190.0	320.0	22.0	21.0
93	13	10/18/93	KE JN AR CB	KB CS	11.5	13.0	9.9	10.8	3.9	1.1	93.27	105.92	7.3	7.3	*	*	110.0	130.0	180.0	370.0	20.0	19.0
93	13	11/09/93	JF HP KF	SC RC MF	6.0	6.0	12.5	12.0	3.2	1.9	102.86	97.99	6.8	7.0	*	*		130.0		130.0	16.0	10.0
94	13	04/26/94	RM PC SD	SD KB JN DC	11.0	11.0	11.4	10.8	0.7	0.0	104.29	98.42	7.4	6.9	*	*	112.0	287.5	112.0	350.0	10.5	10.0
94	13	05/10/94	SS AF	SS MT SC	12.5	14.5	10.5	9.7	1.2	0.0	99.66	95.59	7.0	7.1	150	100	130.0	155.0	130.0	320.0	15.0	20.0
94	13	05/25/94	DF AF SD	PC AF HP SD	17.5	17.5	9.6	9.0	1.6	0.0	101.67	94.50	7.3	6.9	160	70	105.0	75.0	105.0	355.0	13.0	16.0
94	13	06/09/94	CS DF SD	DC KF SD AF	20.0	21.0	8.0	7.5	5.1	1.6	90.22	85.19	7.6	7.4	290	160	100.0	140.0	100.0	295.0	26.0	29.0
94	13	06/23/94	JF RM SD	SD PC KF SS	22.5	25.5	7.2	8.0	4.2	2.4	85.32	99.29	7.4	7.1	400	320	90.0	100.0	90.0	340.0	25.0	28.0
94	13	07/11/94	DC AF JN	KF DC AF	25.0	26.5	7.0	7.3	8.9	8.0	89.06	94.95	7.9	7.1	360	250	100.0	112.5	100.0	330.0	25.0	26.5
94	13	07/25/94	CS JN	CS RM PC	26.0	28.0	6.1	7.0	1.4	3.2	76.02	91.22	7.5	*	18	0	105.0	90.0	105.0	345.0	27.0	34.0
94	13	08/09/94	PC SD	KF MD SD	23.0	25.0	7.5	7.8	7.1	0.8	91.10	95.16	7.4	7.4	*	*	82.0	90.0	100.0	300.0	26.0	30.0
94	13	08/22/94	KF DC CS	AF CS	21.0	21.0	7.5	8.0	5.3	2.1	86.87	91.11	7.6	7.3	*	*	120.0	160.0	120.0	335.0	19.0	20.0
94	13	09/07/94	AR JJ	CS DF	18.0	19.0	8.6	8.0	6.1	2.1	94.29	87.58	7.6	7.3	0	0	130.0	160.0	130.0	350.0	16.0	24.0
94	13	09/21/94	KF HP SS	DF HP SD	19.5	19.5	7.8	10.0	10.1	1.9	90.06	110.45	7.5	7.6	*	*	115.0	192.5	120.0	320.0	21.0	27.0
94	13	10/06/94	BL JN RL BC AF	BL RL RG AF JN	12.0	13.0	11.1	9.4	2.4	1.9	104.89	90.58	6.7	7.1	*	*	*	152.5	*	340.0	9.0	18.0
94	13	10/20/94	AF RG	RL SS AF	10.5	12.0	10.7	10.8	5.8	0.0	99.60	100.70	6.9	6.9	*	*	147.5	120.0	155.0	350.0	17.0	14.0
94	13	11/07/94	RL HH SD		11.0	*	9.8	*	4.8	*	91.76	*	7.0	*	*	*	*	*	*	*	10.0	*
95	13	04/18/95	BS DB MA	BS MA	11.0	9.0	11.1	11.5	1.4	0.5	101.95	100.27	7.7	7.5	0	19	120.0	202.5	120.0	335.0	15.0	12.0
95	13	05/01/95	DB BS	DB BS	12.0	11.0	10.4	10.4	3.3	0.6	98.77	95.09	7.4	7.8	30	*	115.0	145.0	115.0	310.0	12.5	19.0
95	13	05/15/95	BS JM	BS DB	12.0	13.0	9.6	10.2	1.3	0.4	90.16	97.48	7.7	8.1	0	0	97.5	142.5	100.0	340.0	11.0	10.0
95	13	05/30/95	BS AA MM	BS MM	18.0	19.0	8.7	8.3	1.3	1.2	92.94	90.44	7.6	7.2	125	110	115.0	120.0	115.0	300.0	21.0	24.5
95	13	06/13/95	BS MM	BS JM	20.0	19.0	7.3	7.8	6.8	3.2	83.60	85.90	7.5	7.6	0	230	95.0	117.5	95.0	335.0	21.5	18.0
95	13	06/27/95	BS MM	BS MM	22.0	25.0	7.5	7.6	7.2	3.6	89.46	94.06	7.1	6.9	950	630	112.5	105.0	120.0	295.0	19.5	23.0
95	13	07/12/95	BS JM	BS DB	21.5	25.5	5.8	6.6	7.6	6.2	68.67	83.54	7.5	7.4	230	640	85.0	87.5	85.0	330.0	21.0	26.5
95	13	07/27/95	BS DB	BS DB	26.5	29.0	6.4	7.1	4.0	2.2	81.54	93.68	7.2	7.7	220	130	125.0	115.0	125.0	300.0	28.0	35.0
95	13	08/10/95	BS MM	BS	22.0	25.0	7.2	7.5	2.5	1.7	83.77	91.92	7.8	7.6	NV	NV	95.0	132.5	95.0	330.0	22.0	31.0
95	13	08/28/95	BS	BS AR	21.5	22.5	7.6	7.6	4.2	9.4	88.36	92.59	7.4	7.4	440	400	105.0	100.0	105.0	325.0	22.0	22.0
95	13	09/11/95	JJ JJ	JF	17.0	20.0	8.1	11.7	11.6	7.6	89.73	134.58	6.9	7.0	360	120	*	80.0	50.0	295.0	15.0	23.0
95	13	09/26/95	JJ JJ MM MY	MM JJ SB	16.0	15.5	5.3	9.3	29.2	28.0	63.96	110.27	7.8	8.2	500	TNTC	67.5	77.5	110.0	255.0	15.0	12.0
95	13	10/10/95	MM JM	MM SB	14.0	15.0	8.8	9.2	4.4	2.4	87.89	92.86	7.4	7.1	110	50	118.0	137.5	115.0	340.0	15.0	18.0
95	13	10/26/95	DB GC	*	12.0	*	10.6	*	5.9	*	102.16	*	7.4	*	30	*	115.0	*	145.0	*	10.0	*
95	13	11/09/95	MM DB	MM DB	6.5	5.0	12.3	12.9	2.2	0.0	101.87	101.57	7.5	7.1	180	80	110.0	107.5	110.0	310.0	2.5	1.0
96	13	04/18/96	MY SL ML	ML SB MY	6.0	7.0	12.4	12.0	0.0	1.7	100.15	100.35	7.3	7.5	50	30	57.5	85.0	220.0	325.0	8.0	14.0
96	13	05/06/96	ML MM MY	SB MY MM	12.0	12.5	10.8	10.5	0.6	0.0	101.03	99.00	7.1	7.0	40	40	170.0	182.5	170.0	330.0	6.0	8.5
96	13	05/20/96	MM ML	SB MM	16	17.5	9.3	8.9	3.2	0.8	96.3	93.85	7.4	7.4	110	60	165.0	145.0	165.0	340.0	26	34
96	13	06/03/96	GA MY	GA MY SB	18.5	18	8.7	9.1	2.8	0	94.64	96.55	7	7	240	100	100.0	175.0	100.0	235.0	26	17
96	13	06/17/96	MM	SB MM	24	24	7.2	7.8	4.2	1.4	87.76	93.7	7.3	7.2	190	140	120.0	140.0	120.0	315.0	27	23
96	13	07/01/96	MY	MY SB	21	24.5	7.5	7.8	7.3	0.8	91.32	94.28	7.2	7.5	470	370	100.0	105.0	100.0	335.0	21	34

Site 13 - Marina Falls Landing

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L °C	WTEMP-H °C	DO-L ppm	DO-H ppm	SAL-L ppt	SAL-H ppt	SAT-L %	SAT-H %	pH-L	pH-H	FECAL-L CFU/100ml	FECAL-H CFU/100ml	LP-L	LP-H cm	DEPTH-L	DEPTH-H	ATEMP-L °C	ATEMP-H °C
96	13	07/15/96	MM GA	EB SB MM GA	21	22	8.3	7.7	0	0.2	93.5	88.53	7.4	7.1	320	560	70.0	87.5	165.0	335.0	23	27
96	13	07/30/96	MM MY	MM MY	21.5	22.5	7.7	8.1	5.3	1.6	90.05	94.69	7.1	7.2	120	98	95.0	140.0	95.0	340.0	21	31
96	13	08/14/96	MM MY	SB MY	23	25.5	7.5	8.5	6.8	3	90.96	105.82	7.4	7.1	410	290	110.0	100.0	125.0	320.0	24	34
96	13	08/29/96	JJ JJ	JJ JJ	24	27	6.1	7.5	15.6	9.2	79.03	99.04	6.9	7	TNTC	430	87.5	95.0	95.0	350.0	22	30
96	13	09/16/96	MY ML SL KR	SL ML KR	18.5	20	7.5	11.8	8.4	10.5	84.11	137.9	6.5	7.7	260	400	127.0	112.5	140.0	*	17.5	19
96	13	09/30/96	MY	MM	16	15.5	9.7	11	8.5	4.5	103.44	113.51	7.1	7.4	290	104	112.0	107.0	120.0	330.0	20	18
96	13	10/15/96	MM ML MY	MM MY ML SL	9.5	10	11	10.5	3.8	1.2	98.89	94.11	6.7	6.9	30	50	80.0	107.5	105.0	330.0	10	11
96	13	10/29/96	SL	SL	10	8	11	10.7	0.6	0.6	98.26	91.12	7.2	6.5	0	10	82.2	TOO DARK	100.0	TOO DARK	11	9
96	13	11/06/96	MY SL CB	MY SL CB	6	7	13	12.5	0.1	0.1	105.05	103.57	8.2	7.1	100	0	118.0	175.0	115.0	270.0	THERM MAL	6
97	13	04/23/97	SL, AA, JM	SL, AA	10.0	12.0	11.4	11.9	0.0	0.6	101.49	111.32	6.9	7.0	4	16	200.0	175.0	200.0	360.0	15.0	19.0
97	13	05/06/97	ML, MY	ML, MY	12.0	12.0	10.4	10.8	0.0	0.3	96.97	100.87	6.9	7.2	20	90	135.0	200.0	135.0	250.0	13.5	12.0
97	13	05/22/97	MM, MY	MM, MY	14.0	15.0	10.1	10.0	0.0	1.0	98.46	100.17	7.6	7.5	*	*	120.0	137.5	120.0	320.0	14.0	19.0
97	13	06/05/97	GA, MY	MY, GA	17.0	18.0	8.5	8.6	3.5	0.7	89.99	91.58	7.1	7.3	190	92	117.5	120.0	125.0	340.0	16.5	20.0
97	13	06/23/97	MM	MM	23.5	25.0	7.3	7.6	4.9	2.8	88.47	93.67	7.6	7.6	268	210	90.0	75.0	90.0	230.0	27.0	29.0
97	13	07/07/97	MM, MY	MM, MY	25.0	24.5	7.5	8.0	3.8	2.6	92.91	97.59	7.1	7.3	*	*	85.0	85.0	120.0	320.0	28.0	26.0
97	13	07/21/97	MM, MY	MM, MY	22.0	21.5	7.8	7.8	4.0	2.5	91.47	89.88	7.4	7.1	780	196	130.0	130.0	90.0	330.0	22.0	20.0
97	13	08/04/97	MM, MY	MM, MY	23.0	23.5	9.2	14.0	16.2	16.3	117.43	180.43	7.8	8.5	64	46	92.5	77.5	130.0	320.0	22.0	23.0
97	13	08/19/97	GA, MY	GA, MY	21.0	23.5	7.8	9.8	6.4	12.6	90.88	123.75	7.3	7.4	220	310	52.5	75.0	90.0	340.0	24.0	25.0
97	13	09/03/97	GA, MM, MY	GA, MM	19.0	21.0	8.1	9.7	3.2	15.6	89.20	118.89	7.3	8.0	220	10	120.0	107.5	120.0	330.0	17.5	20.0
97	13	09/18/97	MM, SL	SL	19.0	24.0	8.0	9.0	6.0	6.0	89.44	110.73	7.4	7.6	62	12	100.0	1.0	100.0	360.0	23.0	26.0
97	13	10/02/97	SL, MY	MY, SL	11.5	15.0	8.3	9.3	5.8	10.2	79.02	98.06	7.0	7.3	50	20	130.0	115.0	130.0	315.0	8.9	16.0
97	13	10/17/97	SL.ML	SL,ML	14.0	14.0	8.6	9.6	11.0	5.7	89.18	96.55	7.1	7.4	*	*	110.0	140.0	110.0	375.0	10.0	15.0
97	13	11/03/97	SL, MY	SL, MY	10.0	10.0	10.9	11.3	0.0	0.0	97.04	100.60	7.1	7.2	TNTC	TNTC	15.0	85.0	330.0	330.0	12.0	15.5
98	13	05/12/98	GA, JM	GA, JM	12.0	12.0	10.6	10.4	0.4	0.3	99.03	97.13	7.4	7.3	250	TNTC	*	85.0	CURRENT	340.0	14.0	14.0
98	13	06/10/98	MY, JM	MY,JM	17.0	18.0	8.1	9.1	0.8	0.0	84.54	96.55	7.1	7.5	44	24	130.0	170.0	130.0	320.0	23.0	29.0
98	13	07/09/98	MY,JM	MY,JM	21.5	24.0	7.9	7.9	0.0	1.0	89.85	94.69	6.9	7.4	22	20	135.0	165.0	135.0	340.0	25.0	36.0
98	13	08/10/98	GA, JM	GA, JM	25.0	26.5	7.0	7.5	3.2	2.9	86.43	95.02	7.2	7.6	90	92	95.0	97.5	95.0	345.0	28.0	32.0
98	13	09/09/98	MY	MY	20.0	19.5	7.5	9.1	8.1	9.8	86.50	104.90	7.3	7.4	56	28	125.0	165.0	125.0	370.0	22.0	17.0
98	13	10/07/98	SB, BN	SB, DB	9.0	15.0	9.6	9.7	10.7	6.6	88.83	100.21	6.7	6.8	10	0	100.0	110.0	100.0	360.0	8.5	19.0
98	13	11/05/98	MY,CH,SS	MY	7.0	8.5	10.9	11.5	4.1	4.9	92.43	101.57	7.2	7.2	30	0	10.0	120.0	10.0	120.0	5.5	13.5
99	13	04/29/99	MY, JM	JM, MY	11.5	13.0	9.9	11.0	3.3	0.4	92.92	105.09	7.2	7.5	10	50	115.0	147.5	120.0	230.0	11.0	16.0
99	13	05/17/99	MY, JM	MY, JM	17.0	17.0	8.8	8.9	4.8	0.2	93.83	92.60	7.3	7.2	4	10	85.0	130.0	85.0	330.0	23.0	23.0
99	13	06/15/99	MY	MY	22.0	24.0	8.0	7.7	5.3	6.8	94.46	95.11	7.2	7.4	12	6	70.0	65.0	90.0	330.0	24.0	27.0
99	13	07/13/99	JM	JM	21.0	22.0	6.6	7.6	8.4	4.0	77.71	89.12	7.4	7.6	70	40	90.0	100.0	90.0	325.0	21.0	26.0
99	13	08/12/99	JM, CH	*	22.0	*	7.1	*	10.0	*	85.95	*	7.6	*	200	*	92.5	*	115.0	*	25.0	*
99	13	09/13/99	JM, MY	MY, CH	22.0	21.0	7.1	8.1	4.7	1.1	83.57	91.77	6.9	7.2	190	130	120.0	147.5	120.0	330.0	26.0	24.0
99	13	10/12/99	MY,CAH	MY,CAH,JM	11.5	11.5	9.9	10.0	4.6	0.0	93.64	92.17	6.9	7.3	16	18	120.0	165.0	120.0	325.0	12.0	15.5
99	13	11/09/99	MY,CAH	MY, CAH	6.0	7.0	12.6	12.4	0.2	0.0	101.88	102.69	7.2	7.4	132	460	120.0	110.0	120.0	110.0	4.5	11.5
00	13	04/19/00	MY, DG, CA	MY, DG	10.00	10.00	11.60	11.70	0.50	0.00	103.56	104.16	7.50	7.30	420	20	10.00	145.00	10.00	145.00	6.50	8.00
00	13	05/18/00	CAH, PO, DG, MY	MY, PO, DG	15.50	16.00	9.80	9.60	0.10	0.20	98.73	97.81	*	*	10	10	*	162.50	*	330.00	18.00	22.00
00	13	06/19/00	PO. MY, CAH	PO, MY	20.00	20.50	8.50	8.20	0.80	0.00	94.28	91.47	7.20	7.10	8	10	120.00	165.00	120.00	310.00	23.50	27.00
00	13	07/17/00	PO, CAH	AF, CAH, PO	21.00	22.00	8.70	7.90	1.76	1.40	98.91	91.39	*	7.10	10	20	102.50	125.00	135.00	305.00	21.00	20.00
00	13	08/15/00	MY, CAH, PL	PO, MY, CAH	21.50	22.50	7.40	8.00	2.50	1.50	85.27	93.47	*	*	24	22	120.00	150.00	130.00	315.00	20.00	22.50
00	13	09/14/00	MY	MY	20.00	22.00	7.50	8.10	4.30	3.25	84.75	94.61	7.80	7.70	50	10	140.00	*	140.00	*	20.00	27.00
00	13	10/16/00	PL, CAH, MY	PO, MY	11.00	11.00	9.70	10.20	4.40	3.10	90.61	94.58	8.00	7.50	10	130	*	*	*	*	7.00	12.00
00	13	11/13/00	MY, CAH, PO	PO, MY, CAH	8.00	8.50	11.00	11.80	0.10	0.10	93.41	101.42	7.20	7.40	0	30	120.00	*	21.00	*	7.00	10.00
01	13	04/24/01	NH, MY	NH, MY	14.5	16.0	10.0	9.9	0.0	0.3	98.5	100.9	7.3	7.3	10	0	142.0	165.0	142.0	345.0	19.5	35.0
01	13	05/23/01	PS, MY	PS, MY	15.5	18.0	9.1	8.8	4.4	1.6	93.8	94.2	7.3	7.5	22	48	100.0	120.0	120.0	330.0	15.0	21.5
01	13	06/21/01	MY	MY	24.0	23.5	7.6	7.6	1.9	0.3	91.5	89.9	7.1	7.4	50	54	105.0	130.0	105.0	330.0	21.0	19.5
01	13	07/23/01	MY, PS	PS, MY	26.0	26.5	7.0	7.6	4.0	4.2	88.4	96.9	7.6	8.1			90.0	100.0	90.0	325.0	33.0	35.0
01	13	08/20/01	MY, PS	PS, DG, MO	23.5	24.5	6.9	9.8	9.7	11.9	85.8	125.6	7.3	7.9	10	0	80.0	80.0	95.0	345.0	23.5	27.0
01	13	09/18/01	BW, MY	MY	17.5	22.0	7.6	8.2	13.4	8.6	85.9	98.5	7.3	7.7	0	2	100.0	125.0	100.0	360.0	17.0	27.5
01	13	10/17/01	PS, DG	PS, DG, MO	13.5	14.0	9.1	9.2	3.6	2.3	89.5	90.8	7.3	7.3	20	20	120.0	130.0	130.0	365.0	12.0	13.0
01	13	11/01/01	MY	PS, RP	7.0	9.5	10.8	10.9	2.8	1.2	90.9	96.5	6.9	7.1	44	30	30.0	150.0	30.0	160.0	9.0	13.0
02	13	04/29/02	PS, NH	PS, KM	8.5	8.0	11.6	11.8	0.4	0.1	99.9	100.2	7.9	7.5	50	42	125.0	185.0	125.0	335.0	7.0	5.0
02	13	05/28/02	PS, KM	PS, KM	18.5	18.0	9.2	9.2	1.2	0.5	99.2	97.9	7.4	7.4	22	26	110.0	155.0	110.0	315.0	22.0	21.0
02	13	06/25/02	PS, KR	PS, KM	21.0	22.0	8.2	8.5	0.8	0.5	92.8	97.9	7.1	7.2	0	10	125.0	105.0	125.0	320.0	24.0	28.0
02	13	07/25/02	PS, KM	PS, KM	24.0	25.0	7.2	8.2	5.0	4.3	88.1	101.8	7.1	7.6	36	152	92.5	100.0	100.0	315.0	23.0	24.5
02	13	08/26/02	PS, KM	PS, KM	24.0	25.5	9.4	12.5	21.0	17.3	125.5	167.9	7.8	8.2	70	34	125.0	72.5	130.0	330.0	30.0	29.0
02	13	09/23/02	AF, RP	AF, RP, PS, KM, TC	21.5	22.0	7.6	7.5	8.6	20.7	90.5	96.4	7.0	7.3	*	>120	57.5	80.0	145.0	330.0	25.0	24.0
02	13	10/22/02	KM, PS	KM, PS	9.5	11.0	10.00	10.40	2.40	1.90	89.2	95.8	7.0	7.1	54	60	130.0	120.0	140.0	320.0	5.0	12.0
02	13	11/06/02	KM, PS	KM, PS	5.5	5.0	11.20	11.50	1.50	4.10	90.1	92.8	6.9	6.7	>120	140	<10	85.0	<10	260.0	7.0	9.0

SITE 14 - Fowler's Dock

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L °C	WTEMP-H °C	DO-L ppm	DO-H ppm	SAL-L ppt	SAL-H ppt	SAT-L %	SAT-H %	pH-L	pH-H	FECAL-L CFU/100ml	FECAL-H CFU/100ml	LP-L cm	LP-H cm	DEPTH-L cm	DEPTH-H cm	ATEMP-L °C	ATEMP-H °C
92	14	04/17/92	AF RC	CB CB LI	6.5	5.8	11.80	11.80	2.20	3.00	97.73	95.75	7.0	7.0	*	*	240	240	*	*	3.0	2.5
92	14	05/01/92	KM SC KB	SC KM	11.5	14.0	10.50	9.90	3.30	2.80	98.58	98.00	7.5	7.3	*	*	190	250	*	*	18.0	20.0
92	14	05/15/92	KB AF	KB AF	17.0	19.0	8.70	9.20	2.80	1.80	91.79	100.56	7.3	7.3	*	*	240	235	*	*	14.0	17.0
92	14	06/01/92	KM	KM	16.0	16.0	8.60	8.70	2.80	2.80	88.86	89.89	7.3	7.2	*	*	180	150	*	*	11.0	10.0
92	14	06/15/92	KB AF JF	KC AF JF	21.0	24.0	6.50	7.10	0.30	3.20	73.34	86.09	6.7	6.9	*	*	105	150	*	*	23.0	20.0
92	14	06/30/92	JF RC RM	JF CS	22.0	25.0	8.00	7.75	3.50	3.70	93.57	95.96	7.3	6.9	18	133	100	125	*	*	21.0	30.0
92	14	07/13/92	JF RM RC SC	RM JF CD RC SC	24.0	26.0	6.90	7.90	3.20	5.70	83.66	100.64	7.4	7.5	24	78	170	130	*	*	25.0	28.0
92	14	07/28/92	SC CS JF	RM JF RC SC CB	22.0	24.5	*	7.60	3.30	3.20	*	93.00	7.3	7.3	0	30	110	120	*	*	19.0	*
92	14	08/13/92	RC KC CB RM JF	KC JF RC RM	21.0	23.0	6.90	8.70	4.30	4.10	79.50	104.02	7.3	7.7	0	0	205	180	*	*	21.0	24.0
92	14	08/27/92	RC CB KC SC RM JF	RC SC KC JF	24.0	25.0	*	7.45	3.20	3.80	*	92.30	7.5	7.4	30	30	210	190	*	*	22.0	27.0
92	14	09/11/92	RC JF SC RM CS	*	20.0	22.0	8.30	8.30	3.20	2.60	93.24	96.62	7.3	7.4	10	10	210	300	*	*	20.0	24.0
92	14	09/25/92	RM RC SC CS	RM RC	16.0	19.0	5.90	9.80	2.50	2.60	60.86	107.58	6.2	7.0	50	10	210	210	*	*	10.0	16.0
92	14	10/12/92	*	*	14.0	15.0	8.50	*	3.50	3.00	84.47	*	7.3	7.2	100	130	125	150	*	*	19.0	20.0
92	14	10/26/92	RC	RM RC LP	8.0	9.0	11.50	11.00	5.00	0.70	100.46	96.02	7.1	7.4	30	840	150	140	*	*	6.0	16.0
92	14	11/09/92	RM AR EW	RM AR	4.0	4.5	9.60	10.70	2.80	1.40	74.87	83.83	7.5	7.3	60	60	135	150	*	*	-2.5	4.5
93	14	04/23/93	AS RC	CB CB	14.0	13.0	10.60	10.10	1.00	0.30	103.90	96.47	7.5	7.1	60	80	210.0	200.0	370.0	280.0	20.0	31.0
93	14	05/06/93	RC CB	SC RC CB	18.0	18.0	9.50	8.80	3.40	2.30	102.64	108.48	7.0	6.9	11	420	165.0	190.0	380.0	370.0	25.0	22.0
93	14	05/20/93	RC	RC KW AS	15.5	17.0	8.50	8.00	3.10	1.90	87.04	83.99	7.5	7.6	50	340	205.0	120.0	325.0	310.0	15.0	18.0
93	14	06/03/93	SC RC CB AS	RC SC	15.5	18.5	8.80	8.60	2.10	2.10	89.62	93.20	7.5	7.2	10	20	185.0	155.0	300.0	300.0	17.0	21.0
93	14	06/23/93	JF HP	HP AS	21.5	22.5	7.10	8.50	3.20	2.20	82.11	99.68	7.5	7.2	10	90	140.0	17.0	350.0	290.0	30.0	25.0
93	14	07/06/93	CS RC	RC CS	25.0	25.0	7.20	8.90	2.70	1.80	88.70	109.13	7.3	7.3	10	30	180.0	170.0	330.0	240.0	30.0	36.0
93	14	07/22/93	CS	RC	25.0	23.5	7.80	7.50	1.00	2.10	95.26	89.58	7.2	7.3	0	10	150.0	150.0	360.0	320.0	23.0	27.0
93	14	08/03/93	AS	CS AS	24.5	27.0	7.00	8.10	2.70	3.20	85.44	103.71	7.4	7.2	40	10	190.0	170.0	280.0	290.0	34.0	32.0
93	14	08/19/93	HP KB	JF HP	21.0	24.5	6.10	6.90	1.30	2.30	69.18	84.04	6.9	6.9	*	18	330.0	230.0	405.0	350.0	20.0	27.5
93	14	09/02/93	SC HP	CS JF	22.5	25.5	7.40	7.50	0.60	1.30	86.06	92.57	7.2	7.7	100	200	210.0	225.0	290.0	285.0	25.5	31.0
93	14	09/20/93	KB JN RC	KB JN HP RM	19.0	15.0	7.20	8.20	0.90	0.30	78.33	81.83	7.3	7.1	30	30	220.0	180.0	310.0	250.0	16.0	16.5
93	14	10/04/93	AR BC	BC MA MA	13.5	14.5	8.80	9.40	0.30	0.00	84.98	92.63	7.1	7.1	*	0	220.0	230.0	320.0	335.0	21.0	20.0
93	14	10/18/93	AR KR RM JN	KB CS	11.0	15.0	10.70	10.10	1.30	1.30	98.22	101.34	7.2	6.9	*	*	120.0	90.0	320.0	350.0	18.5	21.0
93	14	11/09/93	KF SC HP	CB RC	6.5	9.5	12.00	12.80	0.50	0.50	98.41	112.93	7.0	7.1	*	*	190.0	210.0	350.0	300.0	13.0	9.0
94	14	04/26/94	JN PC SD	SD DC KB	10.0	10.5	9.40	3.30	0.80	0.70	84.06	29.84	7.5	6.9	*	*	290.0	265.0	360.0	505.0	8.0	10.0
94	14	05/10/94	AF SS SD	HP AF	13.0	16.0	8.90	9.30	0.00	0.00	84.87	94.65	7.1	6.9	160	40	*	150.0	*	175.0	16.0	19.5
94	14	05/25/94	AF DF HP SD	PC HP DF HP	18.0	18.0	8.20	8.20	0.00	0.60	87.00	87.28	7.3	6.9	20	30	240.0	170.0	355.0	340.0	13.0	16.0
94	14	06/09/94	RC HP JN CS	DC KF SD	19.0	23.0	9.60	8.00	1.10	0.60	104.55	93.93	7.8	7.6	40	0	212.5	195.0	315.0	310.0	17.0	21.0
94	14	06/23/94	AF JF	AF HP	23.0	26.0	6.50	8.00	0.30	2.90	76.20	100.46	7.7	7.3	10	20	217.5	210.0	330.0	325.0	21.0	21.0
94	14	07/11/94	AF JN	CS DC SD	25.0	29.0	9.00	7.80	0.80	0.70	109.80	102.15	8.2	7.4	10	0	165.0	177.5	330.0	350.0	23.0	29.0
94	14	07/25/94	CS JN	CS RM PC	25.0	28.0	6.30	6.80	6.60	2.30	79.19	88.22	7.5	7.2	32	30	197.5	145.0	330.0	310.0	25.0	*
94	14	08/09/94	RM SD	KF MD SD	23.0	26.0	5.90	6.20	1.60	1.50	69.63	77.30	7.2	7.0	*	*	155.0	85.0	225.0	320.0	24.0	29.0
94	14	08/22/94	DC CS	AR	22.0	22.0	7.35	7.30	0.10	2.10	84.46	84.76	7.4	7.5	*	*	207.5	230.0	335.0	330.0	18.0	18.0
94	14	09/07/94	AR JJ	AF PC DF	17.0	18.0	6.00	6.20	0.80	0.70	62.62	66.02	6.3	7.1	0	0	170.0	166.0	225.0	345.0	18.0	24.0
94	14	09/21/94	KF HP SS	DF HP SD	18.0	22.5	7.30	7.30	0.50	0.00	77.66	84.64	7.2	7.2	*	*	200.0	177.0	380.0	335.0	18.0	27.0
94	14	10/06/94	BL JN KL RG AF	BL RL RG AF JN	13.0	15.5	9.10	9.10	0.00	0.20	86.77	91.73	6.8	7.1	*	*	142.5	175.0	340.0	350.0	8.0	18.0
94	14	10/20/94	SS AF	SS RL AF	14.0	*	8.60	9.30	0.80	1.00	84.20	*	6.8	6.9	*	*	132.5	165.0	370.0	345.0	15.0	15.0
94	14	11/07/94	RL HP SD	*	12.0	*	8.10	*	0.00	*	75.52	*	7.2	*	*	*	145.0	*	330.0	*	9.0	*
95	14	04/18/95	AF AP	AF	10.0	12.0	11.00	10.80	0.60	0.60	98.26	101.03	7.3	7.2	NV	0	235.0	225.0	330.0	375.0	19.0	15.0
95	14	05/01/95	AF SH	AF JJ	10.0	13.0	10.20	10.40	0.00	0.00	90.81	99.17	7.4	6.8	*	4	210.0	152.5	360.0	400.0	8.0	12.0
95	14	05/15/95	AF OP	BG PC	14.0	13.5	9.50	9.70	0.00	0.40	92.61	93.72	7.6	6.8	*	0	192.5	160.0	*	390.0	10.0	10.0
95	14	05/30/95	AF RP	AF RP	18.0	20.5	7.80	8.10	0.30	1.10	82.89	90.87	7.6	7.4	*	9	120.0	152.0	465.0	500.0	21.0	27.0
95	14	06/13/95	AF AC	AF AC	19.0	19.0	6.90	7.40	0.30	0.60	74.83	80.38	7.1	6.9	0	8	130.0	165.0	450.0	450.0	16.5	15.0
95	14	06/27/95	AF AC	AF AC JO	22.5	24.0	7.80	8.90	1.20	2.00	91.00	107.25	7.1	7.3	8	10	135.0	140.0	410.0	390.0	17.5	19.0
95	14	07/12/95	AF	AF AC	22.0	25.0	5.20	6.40	1.10	1.80	60.06	78.48	7.4	7.4	9	6	140.0	147.5	425.0	445.0	15.0	25.0
95	14	07/27/95	AF OP	AF	25.0	30.0	6.60	7.20	1.40	3.20	80.77	97.13	6.9	7.4	13	13	195.0	175.0	430.0	370.0	24.0	32.0
95	14	08/10/95	AF OP	AF OP	21.0	25.5	7.70	8.00	1.60	2.40	87.47	99.29	7.2	*	NV	NV	180.0	182.5	370.0	370.0	29.0	31.0
95	14	08/28/95	AF BP OP	AF JMM	19.0	22.0	7.50	6.60	0.60	0.75	81.46	76.10	*	7.1	0	10	80.0	155.0	350.0	340.0	17.0	23.0
95	14	09/11/95	AF JM	AF	17.0	19.5	5.50	6.30	0.20	0.80	57.22	69.18	7.3	7.1	0	1	147.5	155.0	275.0	245.0	13.0	*
95	14	09/26/95	AF JM	AF AC	15.5	15.5	6.30	7.50	0.00	0.00	63.43	75.52	7.2	7.0	10	40	155.0	140.0	345.0	345.0	13.5	16.0
95	14	10/10/95	*	AF AC	*	16.0	*	7.80	*	0.20	*	79.47	*	7.2	NA	20	*	140.0	*	375.0	*	22.0
95	14	10/26/95	AF	AF AC	12.0	12.5	9.60	9.60	0.00	0.00	89.51	90.51	7.3	7.2	30	30	145.0	155.0	360.0	300.0	5.0	19.0
95	14	11/09/95	AF RP	AF RP	5.0	5.0	11.70	11.60	0.00	0.00	92.12	91.33	7.3	7.1	400	140	107.5	107.5	450.0	450.0	-1.0	1.0
96	14	04/18/96	AF AA ZA	AF AKC	5.5	7.0	11.50	12.00	0.90	0.50	92.2	99.7	6.7	7.1	0	0	90.0	90.0	CURRENT	CURRENT	9.0	16.5

SITE 14 - Fowler's Dock

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L °C	WTEMP-H °C	DO-L ppm	DO-H ppm	SAL-L ppt	SAL-H ppt	SAT-L %	SAT-H %	pH-L	pH-H	FECAL-L CFU/100ml	FECAL-H CFU/100ml	LP-L cm	LP-H cm	DEPTH-L cm	DEPTH-H cm	ATEMP-L °C	ATEMP-H °C
96	14	05/06/96	NK EL KF DP	NK KM JF	12	12	8.80	10.50	0.70	0.70	82.37	*	7.8	6.9	10	18	180.0	197.5	350.0	480.0	5.5	11
96	14	05/20/96	AF AA		16	17.5	8.90	8.90	1.60	1.00	91.36	93.95	7.1	7.1	84	40	77.5	170.0	430.0	455.0	25	*
96	14	06/03/96	AF AA OP	AF AA ZA	18	18	8.90	9.20	0.50	0.30	94.68	97.76	6.8	7	13	14	145.0	185.0	390.0	385.0	21	16.5
96	14	06/17/96	AF AA ZA	AA ZA AF	23.5	25	7.50	8.30	0.60	3.60	88.89	102.72	7.3	7.4	18	10	162.5	167.5	380.0	380.0	23.5	20
96	14	07/01/96	AA AF	AA ZA	21	25.5	8.80	9.40	0.80	1.00	99.54	115.84	*	8.6	16	40	142.5	175.5	410.0	370.0	21	30
96	14	07/15/96	AA ZA RP	AF KF	20	21.5	8.10	7.60	0.00	1.50	89.47	87.12	7.1	6.8	570	460	85.0	87.5	445.0	410.0	21	21
96	14	07/30/96	AA RP	AA ZA AF	22	24	8.10	8.40	0.80	0.60	93.39	100.5	7.3	7.5	10	10	175.0	137.5	385.0	380.0	21	22
96	14	08/14/96	AF OP	AF AA ZA	22	24	5.80	7.00	0.10	0.70	66.65	83.79	7	7.1	0	0	147.5	155.0	365.0	370.0	19	30
96	14	08/29/96	AF BP AM	JG	22.5	24.3	7.00	6.30	0.20	0.70	81.24	77.92	7	7.2	0	0	137.5	165.0	365.0	370.0	19.5	27
96	14	09/16/96	AF RP	AA ZA	18	19	4.90	6.20	0.30	0.00	52.07	67.13	6.5	7.2	0	10	187.5	170.0	335.0	365.0	15	14
96	14	09/30/96	AF RP KR	KR	15	17	6.70	9.40	0.00	0.90	66.75	98.14	7.3	7.3	30	340	195.0	175.0	340.0	480.0	16	20
96	14	10/15/96	KR	KR	9	10	10.10	9.90	0.20	0.00	87.9	88.14	7.7	7.2	0	0	100.0	97.5	400.0	370.0	5	*
96	14	10/29/96	AF RP	AF KR OP	8	9	10.00	10.30	0.20	0.50	84.97	89.81	7.2	7.3	0	20	95.0	87.0	430.0	435.0	9	11
96	14	11/06/96	AF OP	JR GA ED	6	6	12.00	11.70	0.10	0.00	96.97	94.49	6.7	7.6	20	20	165.0	145.0	415.0	335.0	6	10
97	14	04/23/97	OP, MM, AF	MM, OP, AF	10.0	10.5	10.80	10.80	0.20	0.60	96.3	97.6	7.2	7.0	10	8	200.0	207.5	465.0	460.0	17.0	*
97	14	05/06/97	AF, OP	AF, OP	11.5	11.0	10.00	10.00	0.30	0.00	92.3	91.1	7.1	7.1	4	2	210.0	230.0	450.0	440.0	12.0	10.0
97	14	05/22/97	OP, GA	AF, OP	13.0	14.0	9.70	9.50	0.70	0.30	92.9	92.8	7.2	7.1	54	48	160.0	145.0	475.0	440.0	12.0	16.0
97	14	06/05/97	ED, NK, KM, HH	OP, AF	17.0	20.0	8.40	8.90	1.50	0.00	88.0	98.3	7.4	7.1	14	8	175.0	205.0	*	400.0	16.0	16.5
97	14	06/23/97	AF, OP	AF, OP	23.5	25.5	9.00	8.30	1.20	2.40	107.0	103.0	7.3	7.4	16	20	165.0	67.5	390.0	385.0	39.0	25.0
97	14	07/07/97	OP, RP	AF, OP	23.5	24.0	6.90	7.40	0.50	2.00	81.7	89.2	7.5	6.8	*	*	167.5	180.0	380.0	370.0	27.0	25.5
97	14	07/21/97	OP. AF	AF, OP	22.0	22.5	6.80	7.30	0.00	1.10	78.1	85.1	7.0	7.2	12	6	185.0	155.0	380.0	375.0	19.0	19.0
97	14	08/04/97	OP, RP	AM	22.5	23.0	7.60	7.80	*	1.60	#VALUE!	92.1	7.1	7.2	8	14	177.5	190.0	385.0	380.0	20.0	26.0
97	14	08/19/97	AF, FP	AF, 0	22.0	23.5	7.00	6.70	0.10	0.00	80.4	79.2	7.1	6.7	20	20	207.5	225.0	380.0	350.0	17.5	23.0
97	14	09/03/97	JJ,JJ	JJ, JJ	22.0	23.0	7.90	8.00	1.45	2.20	91.4	94.7	7.3	7.2	0	0	180.0	205.0	325.0	315.0	16.0	22.0
97	14	09/18/97	MA, JF	JF, MA	20.0	20.0	8.10	8.50	0.00	0.25	89.5	94.0	7.5	7.5	2	4	210.0	197.5	245.0	260.0	21.0	26.5
97	14	10/02/97	JJ, WT	WT, GA	14.0	15.0	5.90	6.50	0.35	0.55	57.6	65.0	7.1	6.9	12	8	182.5	173.5	320.0	385.0	8.0	16.5
97	14	10/17/97	SL, ML	SL, ML	13.0	14.0	8.60	9.00	0.00	0.00	82.0	87.7	7.4	7.3	100	4	132.5	127.5	435.0	435.0	10.0	15.0
97	14	11/03/97	AA, CC	AF,OP	11.0	10.5	9.30	10.10	0.00	0.00	84.7	91.0	6.6	7.5	*	*	67.5	65.0	480.0	435.0	14.0	19.5
98	14	05/12/98	GA, JM	GA, JM, L	12.0	13.0	9.60	9.60	1.35	1.00	90.2	92.0	*	6.9	TNTC	TNTC	112.5	135.5	437.0	415.0	12.5	17.0
98	14	06/10/98	GA,JM	GA,JM	17.0	21.0	7.90	8.50	0.90	1.40	82.5	96.5	7.1	7.3	28	18	155.0	195.0	400.0	410.0	18.0	23.5
98	14	07/09/98	JM,GA	JM,GA	21.5	26.0	6.90	7.20	1.85	1.25	79.2	89.7	7.0	6.9	0	10	132.5	137.5	400.0	405.0	21.0	26.0
98	14	08/10/98	JM, GA	GA,JM,BJ	24.5	26.5	7.70	8.20	3.20	0.30	94.2	102.5	7.4	7.9	4	2	45.0	132.5	380.0	380.0	24.5	31.0
98	14	09/09/98	JM,BJ	AF, OP	20.5	20.0	7.70	6.10	0.00	0.00	85.9	67.4	6.8	7.0	10	2	155.0	175.0	380.0	380.0	18.0	20.0
98	14	10/07/98	AR, FC, KD	AF, OP	13.0	5.0	5.80	6.50	0.00	0.00	55.3	51.2	7.3	7.1	0	0	220.0	165.0	375.0	375.0	10.0	16.0
98	14	11/05/98	JM	JM	6.5	8.0	10.00	10.00	0.20	0.10	81.9	84.9	6.8	8.4	0	0	187.5	177.5	400.0	400.0	4.0	8.0
99	14	04/29/99	AF, PS	OP, AF	12.0	13.0	9.80	9.80	0.00	0.70	91.37	93.81	7.1	7.5	0	0	177.5	197.5	385.0	405.0	13.0	15.0
99	14	05/17/99	AF, PS		17.5		8.40		1.60		88.96	#REF!	7.1		10		137.5		390.0		22.0	
99	14	06/15/99	AF, EM	BP,EM	23.5	25.0	7.60	7.30	0.30	1.20	89.94	89.24	7.5	7.7	0	2	142.5	162.5	390.0	383.0	23.0	27.0
99	14	07/13/99	AF, RP	PS, LF	22.5	24.0	6.40	6.70	1.50	0.30	74.78	80.04	7.4	7.3	0	0	210.0	185.0	390.0	385.0	19.0	26.0
99	14	08/12/99	AF, RP	AP, RP	22.0	24.0	5.40	6.90	1.40	0.35	62.47	82.45	7.1	7.2	2	0	187.5	175.0	390.0	390.0	23.0	29.0
99	14	09/13/99	AF, RP	AF, RP	21.0	23.0	6.40	6.80	1.10	0.30	72.51	79.72	7.2	7.1	340	240	147.5	135.0	410.0	410.0	17.0	22.0
99	14	10/12/99	AF, RP	AF, RP	12	14	9.40	10.10	1.60	0.00	88.43	98.46	7.2	*	20	16	185	177.5	405	405	14.5	20
99	14	11/09/99	PS,RP	PS,RP	6.0	6.0	11.20	11.30	0.10	0.10	90.51	91.32	7.4	7.4	22	36	192.5	180.0	430.0	420.0	7.0	7.0
00	14	04/19/00	AF, RP	AF,RP	11.00	10.00	10.20	10.25	0.00	0.00	92.95	91.26	7.30	7.30	10	46	230.00	240.00	430.00	435.00	6.00	8.00
00	14	05/18/00	AF, RP	JM	16.00	17.00	9.30	8.90	0.10	0.20	94.70	92.60	7.50	7.40	4	22	192.50	265.00	420.00	560.00	NA	17.00
00	14	06/19/00	AF, RP	AF, RP	21.00	23.00	7.60	7.60	1.10	0.30	86.10	89.10	7.20	7.20	12	4	150.00	183.50	420.00	425.00	18.00	22.00
00	14	07/17/00	AF, RP	AF, RP	21.50	23.00	5.70	6.10	1.00	1.40	65.17	71.92	7.20	7.10	0	4	165.00	165.00	400.00	400.00	22.00	22.00
00	14	08/15/00	AF, RP	AF, RP	22.00	21.00	6.00	6.50	0.00	0.00	68.91	73.22	7.10	7.00	6	4	145.00	73.50	425.00	425.00	19.00	22.00
00	14	09/14/00	AF, RP	AF, RP	20.00	23.00	7.70	8.30	12.10	0.30	90.79	97.31	7.20	7.40	140	60	173.50	180.00	380.00	380.00	14.00	28.00
00	14	10/16/00	AF, RP	AF, RP	11.50	11.00	6.50	9.60	1.30	0.00	60.35	87.48	7.30	7.30	0	10	140.00	135.00	400.00	395.00	8.00	4.00
00	14	11/13/00	AF, RP	AF, OP	9.00	9.00	10.00	10.40	0.00	0.25	86.95	90.55	7.10	7.20	0	0	115.00	125.00	405.00	400.00	11.00	*
01	14	04/24/01	AF, RP	AF, RP	14.0	18.0	9.15	9.10	0.90	0.80	89.64	97.0	7.2	7.1	2	4	210.0	185.0	435.0	430.0	16.5	32.0
01	14	05/23/01	AF, RP	AF, RP	16.0	18.0	8.50	8.80	0.00	0.60	86.5	93.7	7.6	7.2	4	4	177.5	175.0	385.0	390.0	16.0	22.5
01	14	06/21/01	AF, RP	AF, OP	24.0	24.0	6.10	6.20	1.15	1.25	73.2	74.4	6.9	7.0	12	96	130.0	145.0	415.0	420.0	23.0	*
01	14	07/23/01	AF, OP	AF, OP	25.0	25.0	7.50	8.40	0.80	1.50	91.5	102.8	7.1	7.6			180.0	157.5	390.0	395.0	32.0	30.0
01	14	08/20/01	AF, RP	AF, RP	27.5	25.0	5.60	3.25	3.20	2.10	72.3	39.9	6.9	*	0	0	192.5	200.0	370.0	370.0	21.0	22.0
01	14	09/18/01	AF, RP	AF, RP, RF	18.0	22.0	6.40	6.00	0.00	0.75	67.9	69.2	6.7	7.0	4	8	125.0	147.5	375.0	365.0	21.0	23.5
01	14	10/17/01	LA, SP, SP	LA, AF	14.0	14.0	7.80	8.10	0.40	0.90	76.2	79.4	7.1	6.8	12	6	175.0	138.0	390.0	385.0	14.5	13.5
01	14	11/01/01	AF, RP	PS, RP	8.5	10.0	9.25	10.00	0.93	0.00	79.9	89.0	7.0	6.9	10	8	157.5	165.0	385.0	385.0	8.5	15.0

Site 15 - Patten Yacht Yard

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L	WTEMP-H	DO-L	DO-H	SAL-L	SAL-H	SAT-L	SAT-H	pH-L	pH-H	FECAL-L	FECAL-H	LP-L	LP-H	DEPTH-L	DEPTH-H	ATEMP-L	ATEMP-H
					°C	°C	ppm	ppm	ppt	ppt	%	%			CFU/100ml	CFU/100ml	cm	cm	cm	cm	°C	°C
93	15	04/21/93	JT,students	TEAM 4	8.5	6.0	11.0	10.4	13.5	27.5	102.31	99.85	7.7	7.9	10	0	115.0	415.0	420.0	617.0	14.5	16.0
93	15	05/06/93	JF AS SM	MV DV BS SS	12.0	10.0	9.1	10.8	7.9	28.8	88.72	114.65	7.4	7.7	30	*	120.0	370.0	350.0	660.0	18.0	24.0
93	15	05/20/93	JH JU	JF SH	12.0	9.0	9.2	9.6	25.8	30.7	100.03	100.97	7.6	7.7	10	*	145.0	320.0	450.0	610.0	11.5	20.0
93	15	06/03/93	MH HF DH	JH MH SS	12.5	9.0	9.1	9.6	26.8	29.8	100.64	100.35	8.0	7.6	10	0	135.0	365.0	375.0	720.0	10.0	20.0
93	15	06/23/93	LB AS	JT	16.5	12.5	8.1	9.3	29.5	31.1	98.90	105.78	7.8	7.6	30	0	160.0	395.0	375.0	720.0	17.0	25.0
93	15	07/06/93	MV JS BS EB	HF JG EB	17.5	16.5	8.9	9.0	33.5	31.8	111.51	109.83	*	7.9	0	10	175.0	445.0	380.0	510.0	27.0	28.0
93	15	07/22/93	CT SM	JT KS MV	18.5	14.5	8.0	9.4	30.1	31.9	99.99	110.89	8.2	7.1	0	20	195.0	265.0	375.0	657.0	19.0	23.0
93	15	08/03/93	MV SS JH	MH BS	18.5	17.0	*	8.1	32.3	30.6	*	100.59	7.8	9.5	*	*	340.0	435.0	390.0	600.0	22.0	32.0
93	15	08/19/93	DH RR HF	JH TE	18.0	17.0	7.9	8.3	29.7	32.3	99.45	104.20	7.9	8.0	0	10	210.0	475.0	390.0	600.0	20.0	21.0
93	15	09/02/93	HF	HF	16.0	15.5	3.3	3.7	32.3	31.1	40.63	44.75	7.8	7.9	0	0	315.0	460.0	420.0	615.0	16.0	23.5
93	15	09/20/93	CT JS JT	JT JS MV	13.5	12.5	8.0	8.4	30.1	32.7	92.30	96.57	7.9	8.0	3	3	320.0	460.0	405.0	635.0	12.0	16.0
93	15	10/04/93	JH TF	JF MM	13.0	13.0	8.5	7.9	31.4	31.9	97.90	91.29	8.0	7.8	20	50	370.0	540.0	430.0	640.0	15.0	20.0
93	15	10/18/93	JS JC	KS AS	11.0	10.0	8.9	8.4	30.9	32.7	97.94	91.56	7.7	7.9	6	4	280.0	415.0	415.0	670.0	14.0	16.0
93	15	11/09/93	JG DH RR	JT BA	8.0	7.5	8.7	8.2	29.4	31.4	88.66	83.75	7.8	7.7	4	1	390.0	610.0	390.0	610.0	13.0	2.0
94	15	04/26/94	JH SH JT	MH JT MR. MAZ	7.0	7.0	10.6	10.5	22.2	30.8	100.57	105.59	7.5	6.9	15	21	195.0	385.0	390.0	545.0	6.0	9.0
94	15	05/10/94	MV BH LR JT	DH RR JT	11.5	9.0	9.3	9.9	20.3	24.7	96.59	100.02	7.8	7.7	18	5	117.0	370.0	410.0	600.0	14.0	15.0
94	15	05/25/94	KS MM AL JT	MV KS PT	12.5	10.5	10.2	11.5	24.3	26.4	111.01	121.48	7.5	7.7	5	8	173.0	435.0	390.0	665.0	11.0	17.0
94	15	06/09/94	JS MH JG	MV SS SH	14.0	12.5	7.9	9.7	26.6	30.4	90.05	109.82	7.5	7.5	4	1	230.0	402.5	400.0	730.0	18.0	25.0
94	15	06/23/94	BA JT	DH MH RR JT	16.0	13.5	7.7	9.1	29.2	30.8	92.32	105.48	7.7	7.8	7	1	205.0	510.0	380.0	620.0	15.0	23.0
94	15	07/11/94	JH SH TS	KS JH	17.5	17.0	*	3.3	29.6	32.5	*	40.85	7.8	7.8	*	4	222.5	525.0	410.0	625.0	22.0	27.0
94	15	07/25/94	JG EB	JH KS EB	19.0	15.0	6.8	9.8	23.5	30.7	84.00	117.05	7.9	7.8	3	6	260.0	435.0	415.0	600.0	25.0	25.0
94	15	08/09/94	MH KS	MV TE	18.0	17.0	8.4	8.0	29.8	31.6	105.81	99.98	7.4	7.8	4	0	207.5	320.0	390.0	390.0	25.0	25.0
94	15	08/22/94	JH SH	JT JS	17.0	14.0	7.4	7.5	31.6	30.8	92.48	87.84	7.6	7.8	8	9	240.0	375.0	400.0	375.0	20.0	17.0
94	15	09/07/94	SS	SS	14.5	15.0	7.5	8.2	30.8	31.9	88.73	98.71	8.0	8.0	5	2	300.0	320.0	400.0	660.0	12.5	23.0
94	15	09/21/94	MH AH	JG CT DS	16.0	15.0	7.8	8.4	32.1	32.1	95.90	101.25	7.3	8.0	3	3	282.0	275.0	450.0	275.0	16.0	23.0
94	15	10/06/94	JT JS	JH JS JG	12.0	12.0	12.8	7	28.9	33.4	142.01	80.02	8.0	7.9	7	0	185.0	345.0	375.0	680.0	6.0	15.0
94	15	10/20/94	MV KS JT	MH JS JG JT	12.0	12.0	8.8	8.8	30.8	32.9	98.86	100.26	7.5	7.9	2	2	261.0	340.0	429.0	680.0	15.0	16.0
94	15	11/07/94	JF	JT KS	11.0	*	9.7	8.6	30.6	31.7	106.53	*	8.0	7.5	0	0	*	*	*	*	8.0	14.0
95	15	04/18/95	PZ JP JT	JG	8.0	6.0	10.5	10.5	24.7	29.5	103.68	102.21	8.0	7.9	1	0	205.0	490.0	380.0	630.0	6.0	10.0
95	15	05/01/95	DAS JMS	MMH AWP JBJ	8.0	8.2	10.6	10.8	2.0	33.9	91.00	113.55	8.0	8.0	0	1	224.0	542.5	*	607.0	8.0	13.0
95	15	05/15/95	SS JT	JG JMS BDS	12.0	8.0	9.1	10.5	26.5	30.6	99.39	107.89	7.6	8.0	2	2	155.0	415.0	375.0	720.0	10.0	8.0
95	15	05/30/95	BM MM JT	HC JG	13.0	10.5	8.3	9.5	25.9	30.3	92.24	102.99	7.1	8.0	5	0	155.0	440.0	400.0	795.0	16.5	27.0
95	15	06/13/95	JG BM ME	MH JG	14.5	11.5	7.7	9.7	27.3	28.6	89.07	106.25	8.1	8.0	3	6	177.5	400.0	380.0	640.0	16.0	20.0
95	15	06/27/95	JP MH JG	JT SS JG	17.0	15.0	8.3	9.0	27.7	31.1	101.20	107.77	8.1	8.0	2	1	235.0	455.0	410.0	600.0	15.0	18.0
95	15	07/12/95	MM JT	JT JP PZ	16.0	14.0	7.9	9.8	30.0	30.3	95.83	114.40	7.7	7.4	1	0	193.0	*	365.0	*	16.0	21.0
95	15	07/27/95	JT MS		21.0	*	8.6	*	38.1	*	120.74	*	7.7	*	10	na	265.0	*	460.0	*	22.0	*
95	15	08/10/95	MH JG	JT JG	18.0	17.0	6.8	7.8	27.9	17.4	84.64	89.35	7.8	7.8	0	3	320.0	308.0	380.0	700.0	17.0	*
95	15	08/28/95	JT	JT	17.0	15.0	7.3	8.1	31.0	30.3	90.88	96.50	7.4	7.8	6	0	252.5	332.5	440.0	610.0	15.0	23.0
95	15	09/11/95	BM MM JT	JG	14.0	13.5	3.9	7.4	31.1	30.3	45.77	85.49	7.4	6.8	4	1	237.5	485.0	410.0	650.0	9.0	19.0
95	15	09/26/95	MM DK KD JG	JP PZ JT	14.0	*	7.9	8.1	31.1	31.1	92.70	*	8.4	8.1	3	5	296.5	440.0	406.0	635.0	15.0	14.0
95	15	10/10/95	JG	BM JG	13.5	13.5	7.5	7.5	30.7	31.4	86.87	87.27	7.8	7.3	2	1	280.0	425.0	420.0	700.0	8.0	18.0
95	15	10/26/95	MM JT JS	JG	11.5	11.0	7.7	7.8	27.2	29.6	83.57	85.09	7.8	7.8	10	3	202.5	385.0	371.0	695.0	5.5	15.0
95	15	11/09/95	JG	JT	8.0	7.0	8.8	7.8	20.8	29.4	84.71	77.68	7.6	7.6	3	0	155.0	*	450.0	*	1.0	3.0
96	15	04/18/96	JG JM AM	JT	6.5	5.0	11.3	10.4	11.7	26.1	99.1	96.5	7.5	8.0	55	17	55.0	177.5	440.0	690.0	5.0	14.0
96	15	05/06/96	JT JP PZ	MH TK JG	8	8	9.4	9.8	24.7	26.6	92.82	98	7.4	8	1	4	232.0	340.0	*	650	8	6
96	15	05/20/96	JG DK CM	SH JM	10.5	11	9.5	9.4	21.8	25.8	97.42	100.01	7.9	7.8	4	3	200.0	312.5	445	575	14	25
96	15	06/03/96	JT CS JM AM	JP PZ JG	14	10	9	9.9	24.8	29.4	101.43	105.52	7.7	7.3	4	0	107.5	402.5	380	600	12	16
96	15	06/17/96	AM TK JG	JT CM DK	15.5	14	8.4	9.7	28.7	29.8	100.04	112.87	8	7.9	1	3	235.0	415.0	420	610	20	30
96	15	07/01/96	MM JT	AM CS DK	16.5	14	8.3	8.8	28.4	29.5	100.64	102.19	7.6	7.8	1	3	145.0	355.0	390	CURRENT	17	26
96	15	07/15/96	JP JT	TK MH AM JT	18	16	7.7	8	22.7	28.1	92.85	95.88	7.1	7.8	0	35	140.0	290.0	430	655	19	25
96	15	07/30/96	JG	MM JG KD	18	15	7.6	8.8	26.8	29.3	93.96	104.16	7.8	7.8	*	*	155.0	411.5	390	641	18	27
96	15	08/14/96	JG	JG	17	15	7.3	8.1	29	29.5	89.74	96	7.9	7.8	0	0	235.0	475.0	430	620	15	25
96	15	08/29/96	JG	JT	17	18	7.3	7.7	30.3	30.3	90.48	97.3	8	7.7	1	3	240.0	405.0	400	500	16	26
96	15	09/16/96	JT KD	JG AM JM	16	16	8.5	7.1	29.5	30	102.78	86.12	8.2	7.8	4	0	305.0	390.0	490	680	18	19
96	15	09/30/96	JT	AM TK MH JG	13	14	7.5	7.5	29.2	29.5	85.14	87.1	7.7	7.8	0	0	308.0	407.5	490	760	12	17
96	15	10/15/96	SH DB MH	KF MH	9	10.5	6.1	8.6	28	30.3	62.99	93.23	7.8	7.7	200	0	190.0	380.0	400	CURRENT	5	14
96	15	10/29/96	AM JM CS JG	JT JP PZ	10	10	8	9.8	15.4	27.4	77.95	103.07	7.2	7.4	23	9	80.0	210.0	450	CURRENT	7	11
96	15	11/06/96	KF	AM TK JG MH	9	9	3.7	8.1	19.7	23.5	36.2	81.2	7.8	7.4	0	2	195.0	155.0	450	710	11	6
97	15	04/23/97	JG	JG	8.0	7.0	10.6	*	9.3	25.7	95.0	#VALUE!	7.3	7.8	8	6	100.0	280.0	470.0	680.0	8.0	15.0

Site 15 - Patten Yacht Yard

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L	WTEMP-H	DO-L	DO-H	SAL-L	SAL-H	SAT-L	SAT-H	pH-L	pH-H	FECAL-L	FECAL-H	LP-L	LP-H	DEPTH-L	DEPTH-H	ATEMP-L	ATEMP-H
					°C	°C	ppm	ppm	ppt	ppt	%	%			CFU/100ml	CFU/100ml	cm	cm	cm	cm	°C	°C
97	15	05/06/97	JG, AM, JV	JT, MK, KG	9.5	8.0	9.7	10.1	17.1	25.9	94.4	100.5	7.6	8.0	1	0	102.5	178.0	425.0	500+	11.0	13.0
97	15	05/22/97	JW, MS, JT	NG, KM, JG	10.0	8.0	9.1	10.1	21.9	30.4	92.3	103.6	8.0	7.8	0	2	118.0	200.0	390.0	800.0	9.0	14.0
97	15	06/05/97	TB, KG, JG	JW, JT, GM	12.5	12.0	8.9	9.6	26.2	28.5	98.0	106.2	7.8	8.1	0	0	165.0	382.5	435.0	*	14.0	15.0
97	15	06/23/97	JK, CS, AD, JT	JG, KM,NG, SN	13.0	17.0	9.5	8.3	29.2	26.6	107.8	100.5	7.7	7.9	4	2	315.0	145.0	670.0	400.0	27.0	22.0
97	15	07/07/97	JW, GM, KS, JT	SW, JT, BR	17.0	13.0	8.9	9.7	28.4	28.8	109.0	109.2	7.8	7.8	*	*	192.5	420.0	415.0	630.0	19.0	26.0
97	15	07/21/97	JT	CD, MK, JT	18.0	13.5	7.3	11.1	26.8	28.9	90.3	127.1	7.7	7.7	7	1	173.0	435.0	355.0	*	18.0	17.0
97	15	08/04/97	JG, KM	JG, JV	18.0	16.0	7.9	8.4	28.6	29.2	98.8	101.4	7.9	7.6	8	*	200.0	435.0	400.0	665.0	18.0	23.0
97	15	08/19/97	JG	GM, JW, JG, KS	17.0	14.0	8.0	8.3	31.0	32.7	99.6	98.4	7.8	7.8	2	0	250.0	475.0	390.0	TO DEEP	15.0	21.0
97	15	09/03/97	SB, BD	CC	18.5	17.5	6.9	7.8	31.4	31.9	88.6	98.6	7.6	8.0	0	*	195.0	*	440.0	*	19.0	21.5
97	15	09/18/97	JW, JT	JG	17.0	15.5	7.3	8.4	30.8	32.9	90.8	102.8	7.6	7.6	*	*	212.5	450.0	330.0	750.0	18.0	27.0
97	15	10/02/97	KG, CD, MV, JT	GM, JG	12.0	11.0	7.8	7.9	30.6	34.5	87.5	89.1	7.8	7.4	12	*	302.5	480.0	420.0	760.0	6.0	15.0
97	15	10/17/97	KM, TB, NG,SW	JG, JV, NG, AD	12.0	13.0	8.1	8.9	31.7	31.9	91.5	102.8	7.5	7.8	4	3	268.0	515.0	410.0	765.0	5.0	16.0
97	15	11/03/97	JW, JT	JG	10.5	11.0	8.5	8.7	17.0	31.5	84.6	96.1	7.5	7.6	*	*	67.0	215.0	420.0	660.0	10.0	14.0
98	15	05/12/98	S S, JS, G M, JT, KM	LC, T F, JW	14.0	10.0	8.8	9.5	17.3	25.1	94.7	98.4	7.4	7.6	9	1	128.0	285.0	400.0	670.0	10.0	15.0
98	15	06/10/98	NG,HF,JT	JT	13.0	12.0	8.7	9.5	27.2	30.5	97.5	106.5	7.4	7.6	1	0	178.0	310.0	405.0	CURRENT	16.0	18.0
98	15	07/09/98	JG,BR,LC	JG,BR	18.0	16.0	7.1	7.9	14.2	27.5	81.4	94.3	7.3	7.6	1	0	137.5	480.0	440.0	650.0	17.0	29.0
98	15	08/10/98	MK, JT	JT, KM, BR	19.0	15.0	7.1	7.9	29.5	29.8	91.0	93.8	7.4	7.5	2	2	215.0	365.0	390.0	CURRENT	24.0	30.0
98	15	09/09/98	HF, NG, KG, JT	AD, LK, BR	16.0	14.0	7.2	8.0	22.7	32.1	83.4	94.5	7.8	*	3	2	320.0	372.5	430.0	CURRENT	14.0	19.0
98	15	10/07/98	JG	EW, LC, MF	10.5	11.0	7.9	8.6	30.7	31.5	85.8	95.0	7.4	7.4	1	0	315.0	385.0	380.0	CURRENT	5.0	14.0
98	15	11/05/98	JJ,MK	JT	8.5	8.0	8.2	7.9	27.2	30.9	83.3	81.3	6.9	7.3	0	0	245.0	343.0	450.0	TO DEEP	4.0	11.0
99	15	04/29/99	JT	JT	9.0	8.0	9.5	10.1	28.4	30.0	98.34	103.35	7.5	7.3	2	0	237.0	357.5	430.0	TO DEEP	13.0	19.0
99	15	05/17/99	LC, JS, SO	EW, SD, JT	11.5	12.0	8.7	10.4	28.4	36.0	95.15	121.02	8.0	7.8	4	1	260.0	617.5	400.0	740.0	9.0	16.0
99	15	06/15/99	JG, MK	MF, LC, EW, BR	17.0	16.0	7.9	8.9	30.3	31.8	97.92	109.18	7.8	7.8	2	0	170.0	470.0	430.0	CURRENT	21.0	25.0
99	15	07/13/99	AR, SJ	AR, JN, JJ, SJ	16.0	13.0	7.5	8.4	30.7	31.5	91.36	96.78	7.4	7.9	0	2	217.5	670.6	400.0	670.6	18.0	24.0
99	15	08/12/99	LC, JS, SO	SG, BR	16.0	16.0	7.6	8.4	31.1	21.6	92.84	96.70	7.6	7.8	0	0	265.0	340.0	335.0	CURRENT	21.0	27.0
99	15	09/13/99	JG	JS,EW,JT	16.5	17.0	6.5	7.3	30.7	31.2	79.98	91.00	7.9	7.8	14	12	295.0	225.0	440.0	645.0	13.0	25.5
99	15	10/12/99	SD,MF,JG	JT	12.0	12.0	7.8	9.5	33.7	30.9	89.32	106.76	7.8	7.7	8	6	360.0	182.5	450.0	510.0	8.0	22.0
99	15	11/09/99	JS,EW,SO,JT	RK,SG,JT	7.0	8.0	8.3	7.9	25.9	30.7	80.71	81.20	7.8	7.9	24	22	212.5	395.0	448.0	610.0	5.0	18.0
00	15	04/19/00	AR, CD, CM	PT, AR	8.00	6.50	12.00	11.10	23.90	30.75	117.87	110.28	7.60	8.00	4	1	112.50	230.00	425.00	690.00	6.00	8.00
00	15	05/18/00	CLW, KM, TH, BC	LC, SL, AB, JT	13.00	11.00	9.70	10.40	22.90	29.20	105.77	113.15	7.60	7.80	0	2	130.00	278.00	405.00	595.00	15.00	21.00
00	15	06/19/00	JG, LC, SL, HB	JH, KM, JT	14.00	15.00	8.10	9.20	26.90	28.50	92.51	108.34	7.70	7.70	2	2	250.00	305.00	445.00	840.00	16.00	24.00
00	15	07/19/00	BR	BR	18.00	18.00	7.90	8.30	27.25	29.20	97.94	104.16	7.60	7.80	*	*	157.50	340.00	420.00	CURRENT	18.00	22.00
00	15	08/15/00	JG	JG, KM	19.00	19.00	7.50	7.50	26.90	29.50	94.58	96.11	7.60	7.80	3	2	240.00	365.00	450.00	535.00	19.00	22.00
00	15	09/14/00	JH, CW, BC JG	JT, LC, AB, BF	17.00	15.00	7.60	7.30	30.00	32.00	94.02	87.93	7.80	7.80	4	0	305.00	550.00	429.00	CURRENT	14.00	21.00
00	15	10/16/00	BF, AB, HB, JG	BC, JT	12.00	12.00	7.70	8.10	30.40	32.00	86.28	91.73	7.60	7.80	4	0	305.00	406.00	465.00	660.00	7.00	7.00
00	15	11/13/00	JG, BC	JT, SL, BF, JV, LC, EB	10.00	10.00	8.20	8.50	25.50	33.20	85.17	92.97	7.60	6.90	2	22	202.50	383.00	430.00	605.00	11.00	10.00
01	15	04/24/01	SWM, AW, JG	AW, JT, VJ, JH	9.0	9.5	9.4	9.5	18.4	28.4	91.20	99.46	7.7	7.9	1	0	210.0	405.0	430.0	625.0	11.0	27.0
01	15	05/23/01	AW, AW, VJ	JT	12.0	12.0	8.7	9.3	29.6	32.4	96.97	105.60	7.9	7.7	2	0	162.5	353.0	410.0	>500	14.0	17.0
01	15	06/21/01	JG, AW, SW	VJ, BR	19.0	14.0	7.4	9.2	25.6	30.8	92.58	107.75	7.8	7.9	8	7	132.0	350.0	410.0	>500	20.0	24.0
01	15	07/23/01	JG	BR	19.0	15.0	7.6	9.0	29.5	32.1	97.39	108.48	7.7	7.7			220.0	430.0	400.0	>500	24.0	30.0
01	15	08/20/01	VJ	BR	16.0	14.0	7.6	8.4	31.2	32.4	92.90	99.42	7.3	7.5	0	0	220.0	455.0	410.0	645.0	21.0	22.0
01	15	09/18/01	JG, AW, HR	VJ,	14.5	16.0	7.8	8.3	30.8	32.6	92.28	102.38	7.8	7.7	1	0	220.0	?	410.0	380.0	12.0	29.0
01	15	10/17/01	JG, HR	VJ	12.5	12.5	7.7	11.2	31.8	31.7	87.99	127.91	7.4	7.6	2	13	270.0	332.5	420.0	475.0	14.0	12.0
01	15	11/01/01	SW, HR, AW, JG	VJ	10.0	10.5	8.3	8.5	32.0	32.7	90.01	93.65	7.7	7.5	3	2	298.0	460.0	410.0	515.0	7.0	13.0
02	15	04/29/02	VJ, EC, MT	CM, AN, RE, HR, JG	8.0	7.5	9.8	9.7	29.8	31.5	100.15	99.14	7.3	7.0	7	3	200.0	292.5	500.0	600.0	1.3	6.0
03	15	05/28/02	EC, JS, SB, AL, JG	VJ, CB, PK	12.0	13.5	8.2	8.0	27.5	28.8	90.14	91.52	7.1	7.7	6	1	240.0	280.0	450.0	700.0	15.0	18.0
04	15	06/25/02	JG, EC	JG	16.0	13.5	7.4	7.8	24.8	30.8	86.87	90.41	7.1	7.5	0	0	155.0	320.0	510.0	460.0	14.0	22.0
05	15	07/25/02	VJ	VJ	18.0	16.0	7.0	8.0	30.6	31.5	88.62	97.95	7.4	7.8	0	0	165.0	432.0	405.0	610.0	68.0	74.0
06	15	08/26/02	JG	JG	19.0	18.0	7.5	7.8	33.4	32.5	98.50	99.95	7.4	7.5	2	5	330.0	385.0	440.0	650.0	19.0	26.0
07	15	09/23/02	JG	VJ	16.0	14.5	6.9	7.3	32.8	32.6	85.22	87.39	*	*	6	5	310.0	487.0	450.0	625.0	20.0	25.0
08	15	10/22/02	VJ, JS	JG	9.0	12.0	7.3	7.8	31.1	32.4	76.99	88.57	7.8	7.8	1	0	310.0	490.0	450.0	620.0	-2.0	14.0
09	15	11/06/02	JG, JS, PC	VJ, JS	8.0	9.0	8.2	8.3	30.9	34.4	84.43	89.56	7.9	7.9	0	0	235.0	340.0	430.0	613.0	2.0	8.0

Site 16 - Exeter

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L °C	WTEMP-H °C	DO-L ppm	DO-H ppm	SAL-L ppt	SAL-H ppt	SAT-L %	SAT-H %	pH-L	pH-H	FECAL-L CFU/100ml	FECAL-H CFU/100ml	LP-L cm	LP-R cm	DEPTH-L cm	DEPTH-H cm	ATEMP-L °C	ATEMP-H °C
94	16	04/26/94	CM	*	10.0	10.5	10.6	10.3	1.60	0.60	95.22	93.08	8.0	7.3	112	80	87.0	157.5	87.0	310.0	6.0	8.0
94	16	05/10/94	CM CK CJ LD	CM TK GM KT	14.0	15.0	9.5	9.1	1.20	0.20	93.22	90.76	7.3	7.1	200	110	100.0	123.5	100.0	307.0	16.0	18.0
94	16	05/25/94	CM CS SS CW	CM BW	18.0	18.0	8.3	8.2	1.60	0.30	88.81	87.14	7.6	7.3	400	200	95.0	116.0	95.0	332.0	11.5	17.0
94	16	06/09/94	CM	BW	18.5	23.0	13.2	9.2	0.50	1.60	141.84	108.58	7.6	7.4	110	300	85.0	105.0	85.0	270.0	17.0	28.0
94	16	06/23/94	BW	BW	23.5	25.5	8.6	13.1	2.90	5.10	103.14	164.86	7.5	8.5	TNTC	TNTC	30.0	37.5	60.0	300.0	22.0	29.5
94	16	07/11/94	CM JW AS	CM MA LD YT	26.0	28.5	9.6	11.2	1.90	2.30	119.94	146.56	7.8	8.1	380	100	40.5	47.5	60.0	294.0	25.0	28.0
94	16	07/25/94	CM JW	CM HB AD	26.5	29.5	7.8	9.3	2.90	10.90	98.82	129.36	7.6	8.9	500	300	48.5	34.5	67.0	297.0	29.0	32.5
94	16	08/09/94	BP	BP	23.0	27.0	14.3	19.0	7.20	11.30	173.80	253.70	9.1	9.5	200	130	35.0	35.0	70.0	300.0	22.0	27.0
94	16	08/22/94	BP	BP	21.0	20.5	8.3	7.7	1.00	0.80	93.99	86.25	7.6	7.4	*	*	70.0	90.0	70.0	300.0	18.0	15.0
94	16	09/07/94	CM	BW	16.0	19.0	7.6	9.8	1.50	1.90	77.97	107.18	7.6	7.5	*	*	76.0	66.5	90.0	320.0	14.0	21.0
94	16	09/21/94	CM	BW	18.0	19.5	8.2	15.4	1.90	7.20	87.88	175.01	7.7	8.6	*	*	52.5	36.0	57.0	295.0	16.0	20.0
94	16	10/06/94	AR JJ	CM	11.0	13.0	10.3	9.8	0.70	0.70	94.23	93.81	7.3	7.3	110	50	95.0	61.5	95.0	330.0	7.0	14.0
94	16	10/20/94	CM MK	BW	11.0	11.5	7.4	7.7	0.60	4.60	67.66	72.83	7.3	7.0	*	*	72.5	75.0	90.0	320.0	16.0	15.0
94	16	11/07/94	CM AG	BW	9.0	9.0	8.3	11.2	0.50	0.50	72.37	97.66	7.2	7.2	*	*	30.0	50.0	85.0	290.0	5.0	8.0
95	16	04/18/95	PS BW	CM SK AS LP PG	10.0	11.0	10.8	11.2	0.50	1.90	96.42	103.15	7.8	8.0	0	30	70.0	172.5	70.0	275.0	11.0	11.0
95	16	05/01/95	PS	CM SK AS CL	12.5	12.5	11.4	10.7	0.60	*	107.84	*	7.8	8.0	NV	NV	50.0	155.0	50.0	270.0	13.0	12.5
95	16	05/15/95	PS	BW	14.0	13.5	9.4	9.8	0.80	0.80	92.04	94.89	7.8	7.4	NV	NV	60.0	87.5	60.0	310.0	11.0	10.0
95	16	05/30/95	AS TN MD LP	MH CM PG	18.0	18.0	8.3	8.8	1.30	0.30	88.67	93.51	7.5	8.0	340	90	50.0	92.5	50.0	245.0	23.0	24.5
95	16	06/13/95	PS	CM	18.5	18.0	9.1	11.6	0.50	0.90	97.79	123.66	7.2	7.3	1120	NA	75.0	57.5	75.0	73.0	21.0	16.0
95	16	06/27/95	JJ JJ	JJ AM	22.0	22.5	8.4	7.5	2.20	0.80	97.58	87.32	7.6	7.3	TNTC	790	45.0	85.0	90.0	170.0	20.0	20.0
95	16	07/12/95	CM	CM	21.0	24.5	6.1	8.1	13.60	14.80	73.93	105.42	7.6	7.7	550	150	42.5	40.0	59.0	290.0	20.0	26.5
95	16	07/27/95	AJM CC	CM	27.0	26.5	7.2	8.0	0.00	0.80	90.71	100.29	7.4	7.7	1500	160	22.5	64.5	70.0	245.0	25.0	35.0
95	16	08/10/95	CM AND FRIENDS	CM AND FRIENDS	23.0	26.0	8.2	15.7	5.10	7.90	98.56	202.30	7.8	8.9	NV	NV	38.5	32.5	56.0	285.0	21.0	35.0
95	16	08/28/95	*	BW	*	23.5	*	16.4	*	15.00	*	209.84	*	8.6	NA	120	*	40.0	*	295.0	*	18.0
95	16	09/11/95	PS	PS	*	*	11.1	9.8	*	*	*	*	*	*	210	50	77.5	53.5	100.0	300.0	13.5	22.5
95	16	09/26/95	CM	CM	13.0	14.5	8.5	11.7	9.80	16.70	85.65	126.78	7.4	7.8	1400	440	44.0	69.0	72.0	311.0	15.0	16.0
95	16	10/10/95	CM	CM	13.0	15.0	10.5	9.8	0.70	0.70	100.51	98.01	7.6	7.3	250	50	61.0	100.0	61.0	305.0	12.0	18.0
95	16	10/26/95	PS SC	PS	12.5	13.0	9.8	9.6	0.60	0.70	92.71	91.89	7.2	7.2	400	60	105.0	57.5	105.0	315.0	15.0	21.0
95	16	11/09/95	PS	CM	4.0	3.5	9.8	12.1	0.80	0.00	75.53	91.59	7.6	7.6	180	0	105.0	112.5	105.0	295.0	4.0	-1.0
96	16	04/18/96	CM GL SC	WB CM	7.0	9.0	11.3	11.2	0.20	0.50	93.7	97.7	7.4	7.2	40	10	111.0	140.0	160.0	300.0	6.0	11.0
96	16	05/06/96	CM	BB BW	12	12	10.1	9.5	0.60	2.10	94.48	89.62	7.8	7.7	105	46	95.0	140.0	95.0	330.0	4	9
96	16	05/20/96	CM	PS CM	17	22	8.4	9.5	0.60	2.00	87.58	110.24	7.6	7.8	100	50	100.0	123.0	100.0	295.0	24	34
96	16	06/03/96	CM	CM	20	19	8.6	9	0.80	0.30	95.39	97.6	7.4	7.6	150	140	70.0	90.0	70.0	289.0	23	17
96	16	06/17/96	PS	PS BB	24.5	32	8.8	9.1	2.00	3.80	107.02	*	7.4	7.8	430	180	85.0	97.5	85.0	275.0	30	32
96	16	07/01/96	CM	CM	21	26	8.4	8.1	1.20	1.40	95.22	100.94	7.8	7.6	1200	500	37.5	62.5	63.0	270.0	21	31
96	16	07/15/96	CM KC	CM KC ND NJ	21.5	23.5	7	7.2	1.20	0.50	80.11	85.29	7.8	7.6	900	400	75.0	120.0	90.0	295.0	23	32
96	16	07/30/96	CM	*	22	*	9.7	*	0.20	*	164.32	*	7.4	*	*	200	54.0	*	54.0	*	22.5	*
96	16	08/14/96	PS	PS	21	27	7.4	9.2	1.90	3.60	84.19	118.04	6.9	7.6	1100	100	70.0	65.0	70.0	275.0	25	36
96	16	08/29/96	CM	CM	22	26	8.6	15	10.90	14.10	104.65	199.71	8	8.6	960	100	48.5	57.5	63.0	305.0	19	27
96	16	09/16/96	CM	AR KF	18	19	7.5	8.6	4.20	7.10	81.38	96.72	7.5	7.6	320	450	53.5	52.5	95.0	340.0	17	17
96	16	09/30/96	CM	JR	16	16	9.4	13.5	0.00	1.50	95.67	138.51	7.8	7.6	200	220	41.5	65.0	70.0	315.0	13	18.5
96	16	10/15/96	CM	JR	10	11	9.6	10.6	0.30	0.30	85.59	96.76	7.8	7.4	0	0	35.0	80.0	35.0	290.0	3	8
96	16	10/29/96	CM	CM	9	9.5	11.6	9.5	0.00	0.30	100.86	83.69	7.8	7.3	100	0	72.5	65.5	85.0	328.0	8	5
96	16	11/06/96	BW JR AR	BB RB	6	6	11.6	12	0.20	0.10	93.8	96.97	7.4	7.4	0	0	65.0	115.0	65.0	240.0	4	8
97	16	04/23/97	CM, WS, AAA	CM, WS, AAA	10.5	12.0	10.4	10.0	0.00	0.00	93.7	93.2	7.3	7.4	50	0	98.0	159.5	98.0	324.0	11.0	19.0
97	16	05/06/97	CM, WS	CM, WS, AAA	12.0	12.0	9.6	10.0	1.30	1.30	90.2	93.9	7.7	7.6	20	60	100.0	157.0	100.0	317.0	12.0	12.0
97	16	05/22/97	CM, AAA	CM, WS, AAA	13.0	14.5	9.4	9.2	0.35	0.45	89.8	90.9	7.6	7.6	*	*	70.0	140.5	70.0	185.0	12.0	11.0
97	16	06/05/97	CM, WS, AAA	BW	16.0	18.0	9.9	*	0.60	0.30	101.1	*	7.7	8.0	80	40	82.0	112.5	82.0	305.0	11.0	12.0
97	16	06/23/97	JR, AD	JR, AD	24.5	25.0	8.0	10.2	0.80	1.20	96.7	124.7	7.5	7.6	760	*	100.0	120.0	100.0	540.0	26.0	27.5
97	16	07/07/97	JR, AD, ED	JR, AD, ED	26.0	26.5	9.0	15.0	0.20	6.80	111.5	193.9	7.3	8.6	*	*	16.0	97.5	16.0	242.0	30.0	29.5
97	16	07/21/97	CO, EO	CO, EO	22.0	22.0	8.1	9.9	11.90	11.60	99.1	120.9	7.3	7.2	170	280	45.0	23.0	45.0	280.0	23.0	22.0
97	16	08/04/97	JR, AD	JR, AD	22.5	24.5	8.6	17.1	8.80	12.10	104.4	219.3	7.6	8.8	780	360	50.0	37.5	50.0	275.0	20.0	21.0
97	16	08/19/97	JR, ED, AD, AA	JR, ED, AD	23.0	25.0	4.0	16.6	11.95	14.85	49.9	218.1	8.9	7.7	880	tntc	4.0	12.5	75.0	305.0	25.0	21.0
97	16	09/03/97	*	SO, EO	*	22.0	*	13.7	*	13.20	*	168.8		*	*	8800		31.0		310.0		22.5
97	16	09/18/97	CM	CO, SO	20.5	23.0	8.5	13.0	4.35	22.85	97.0	172.3	7.5	*	*	*	30.0	32.5	30.0	300.0	20.0	32.0
97	16	10/02/97	JR, AD, ED	JR, ED, AD	13.0	15.5	11.3	17.9	11.75	11.80	115.2	192.5	7.9	8.7	310	30	54.0	45.0	54.0	255.0	13.0	14.0
97	16	10/17/97	CM	CO	10.5	15.0	10.1	14.2	5.10	13.10	93.6	152.2	7.2	8.4	340	150	50.0	42.5	50.0	345.0	8.0	15.0
97	16	11/03/97	JR, ED, AD	CM	10.0	11.5	10.2	10.2	0.30	0.60	91.0	94.3	6.9	7.3	*	*	38.0	59.0	65.0	312.0	11.0	14.0
98	16	05/12/98	JR, AD, ED	CM	11.0	13.0	9.9	8.9	0.60	1.40	90.5	85.5	6.8	7.8	150	280	75.0	98.0	110.0	292.0	14.0	13.0

Site 16 - Exeter

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L °C	WTEMP-H °C	DO-L ppm	DO-H ppm	SAL-L ppt	SAL-H ppt	SAT-L %	SAT-H %	pH-L	pH-H	FECAL-L CFU/100ml	FECAL-H CFU/100ml	LP-L cm	LP-H cm	DEPTH-L cm	DEPTH-H cm	ATEMP-L °C	ATEMP-H °C
98	16	06/10/98	JJ,JJ	CO	19.0	22.0	8.1	8.2	0.40	1.40	87.9	94.9	7.1	7.5	150	60	70.0	95.0	70.0	270.0	23.5	26.0
98	16	07/09/98	JR,ED,AD	ED,AD,JR	22.0	25.5	8.3	7.5	0.30	0.50	95.5	92.2	7.6	7.8	110	0	56.0	102.5	56.0	260.0	24.0	26.5
98	16	08/10/98	JR	JR, AD	27.0	29.5	8.0	13.8	3.10	8.40	102.4	189.5	7.0	7.2	300	130	20.0	35.0	20.0	265.0	29.0	35.0
98	16	09/09/98	CM	JR,ED	20.0	21.0	9.6	9.1	2.95	7.40	107.7	106.6	7.8	7.9	270	100	45.0	52.5	45.0	300.0	18.0	14.0
98	16	10/07/98	JR, ED	CO	11.0	*	9.7	14.6	5.70	*	91.3	*	7.4	*	10	10	5.0	32.5	5.0	355.0	9.0	16.0
98	16	11/05/98	JR,ED	JR	7.0	8.0	10.2	10.5	0.20	0.00	84.6	89.1	7.2	7.4	20	10	20.0	52.5	20.0	300.0	2.0	8.0
99	16	04/29/99	SO, JS	SO, JS	11.0	14.0	*	4.7	0.60	0.40	*	45.92	*	*	0	0	70.0	105.0	70.0	320.0	11.0	15.0
99	16	05/17/99	*	SO	*	21.0	*	4.1	*	1.60	*	46.57	*	*	*	0	*	42.5	*	270.0	*	21.0
99	16	06/15/99	JS, CD	CSO,JSS	24.0	27.0	9.1	5.8	16.90	7.40	118.75	75.88	7.6	8.6	150	160	23.5	32.5	90.0	337.0	24.0	26.0
99	16	07/13/99	JS, NH	JS, NH	23.5	22.0	3.5	6.8	12.55	12.40	44.19	83.43	7.1	7.4	0	100	45.0	46.5	100.0	320.0	19.5	22.0
99	16	08/12/99	NH, CD	CD, NH	22.0	27.0	6.4	12.7	15.25	16.60	79.77	174.47	7.2	8.4	660	170	36.5	30.0	88.0	315.0	22.5	28.5
99	16	09/13/99	NH,JS	NH,JS	22.0	22.0	7.9	7.8	2.10	1.40	91.72	90.23	7.3	7.6	340	200	64.5	84.0	86.0	314.0	24.0	22.0
99	16	10/12/99	AR,PM	NH	11.5	13.0	10.8	10.3	0.70	0.70	99.93	98.59	7.3	7.5	100	500	60.0	107.5	60.0	280.0	13.0	14.0
99	16	11/09/99	NH	NH,JS	6.0	6.5	11.6	11.4	0.20	0.90	93.80	93.71	7.1	7.0	100	90	95.0	255.0	95.0	390.0	3.0	10.5
00	16	04/19/00	JS, NH	JS, NH	10.50	10.00	11.20	11.15	1.15	1.15	101.53	99.91	7.00	7.20	70	10	105.00	175.00	105.00	325.00	7.00	7.50
00	16	05/18/00	JS, NH	JS, NH	17.00	17.50	9.20	9.20	1.50	0.95	96.38	97.09	7.40	7.20	30	50	85.00	95.00	85.00	245.00	20.00	23.00
00	16	06/19/00	JS, IL	JS, IL	23.00	22.50	8.40	8.00	1.60	2.00	99.14	93.72	7.50	7.50	220	130	90.00	97.50	90.00	280.00	22.50	24.00
00	16	07/17/00	JS, IL	JS, IL	20.50	21.50	8.00	7.60	1.65	0.20	90.01	86.53	7.00	7.10	600	120	68.50	107.50	111.00	305.00	17.00	23.00
00	16	08/15/00	JS, NA	JS, NA	21.50	23.50	7.75	8.10	1.10	1.40	88.65	96.40	7.10	7.30	320	190	95.00	116.00	110.00	307.00	19.50	22.00
00	16	09/14/00	IL, NH	NH, VT	19.50	22.00	12.80	12.00	4.10	8.50	143.05	144.13	8.40	8.20	190	0	62.50	72.50	95.00	310.00	17.50	24.00
00	16	10/16/00	IL, NH, JS	JS, IL	10.00	8.50	9.80	9.80	1.80	0.80	88.14	84.56	7.00	7.30	700	400	97.00	110.00	97.00	390.00	8.00	11.00
00	16	11/13/00	JS, IL	JS, VT, NH	8.00	8.50	10.90	11.00	0.90	1.05	92.99	95.05	7.40	7.30	200	600	82.50	77.50	105.00	355.00	8.00	9.50
01	16	04/24/01	JS, NA, VT	JS, NA, VT	15.0	18.0	8.9	8.5	0.20	0.60	88.76	90.47	6.9	7.3	40	40	120.0	142.5	120.0	320.0	20.0	34.0
01	16	05/23/01	JS, EL	JS, VT,	15.0	18.5	9.0	9.0	0.00	0.50	89.66	96.71	7.3	7.1	800	190	80.0	70.0	95.0	315.0	13.0	17.5
01	16	06/21/01	JS, IL	JS, IL	23.0	22.0	7.1	7.5	0.30	1.95	83.24	87.01	7.2	7.1	50	60	96.0	96.0	100.0	300.0	20.5	12.0
01	16	07/23/01	EL, NA, VT	EL, NA, VT	25.0	27.5	8.2	11.0	1.20	1.10	100.24	140.59	7.6	8.6			65.0	47.0	70.0	222.0	28.5	38.0
01	16	08/20/01	EL, VT,	EL, VT	24.0	25.0	5.3	9.2	8.70	9.20	66.14	117.24	7.0	7.7	1400	370	50.0	37.5	100.0	335.0	26.5	27.0
01	16	09/18/01	JS, VT	JS, IL	18.0	20.0	9.2	13.3	3.95	17.75	99.69	161.92	7.5	8.0	>6000	1100	30.0	37.5	95.0	340.0	14.0	24.5
01	16	10/17/01	VT, EL	VT, NA	14.0	15.0	8.8	11.0	0.40	1.00	85.97	110.19	7.4	7.7	100	420	60.0	80.0	100.0	345.0	13.5	12.0
01	16	11/01/01	JS, NA	NA, NH	7.0	11.0	10.1	13.4	6.75	9.65	87.00	129.04	6.9	7.0	700	900	48.0	42.5	87.0	310.0	9.0	16.0
02	16	04/29/02	JS, VT, NA	JS, VT	8.0	8.0	10.7	11.8	0.20	0.00	90.92	99.72	7.1	7.4	330	500	118.0	110.0	118.0	320.0	6.0	7.0
02	16	05/28/02	JS, IL	IL, NA	18.0	19.0	8.8	9.0	1.60	1.45	94.16	98.19	7.4	7.6	20	20	87.0	85.0	87.0	295.0	22.0	22.5
02	16	06/25/02	VT, JS	VT, NA	21.0	22.0	8.0	7.4	1.10	1.60	90.64	85.70	7.5	6.9	170	0	86.0	72.0	86.0	72.0	21.0	30.0
02	16	07/25/02	IL, VT	IL, NA	23.0	26.0	8.9	14.2	2.60	8.30	105.59	183.36	7.4	8.6	210	106	51.0	24.5	75.0	290.0	23.0	24.0
02	16	08/26/02	IL, JS	IL, JS	24.5	26.5	16.3	17.9	19.50	19.70	217.76	247.96	8.6	8.5	330	70	17.0	17.0	85.0	305.0	27.0	29.5
02	16	09/23/02	EL, JS	EL, VT	23.0	23.5	8.4	14.6	19.50	16.50	109.23	188.37	7.2	8.3	>600	>600	37.5	32.5	*	305.0	34.5	34.0
02	16	10/22/02	VT, EL	JS, EL	8.0	9.5	12.20	10.50	1.60	1.80	104.49	93.32	7.7	7.4	>60	260	70.0	70.0	70.0	300.0	5.0	11.5
02	16	11/06/02	JS, NA, IL	JS,VT	8.5	5.0	10.88	11.00	0.90	1.50	93.93	87.37	7.3	7.3	140	38	50.0	75.0	95.0	380.0	8.5	10.0

Site 17 - Dover Foot Bridge

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L °C	WTEMP-H °C	DO-L ppm	DO-H ppm	SAL-L ppt	SAL-H ppt	SAT-L %	SAT-H %	pH-L	pH-H	FECAL-L CFU/100ml	FECAL-H CFU/100ml	LP-L cm	LP-H cm	DEPTH-L cm	DEPTH-H cm	ATEMP-L °C	ATEMP-H °C
96	17	04/18/96	*	*	*	*	*	*	*	*	*	*									*	*
96	17	05/06/96	*	*	*	*	*	*	*	*	*	*									*	*
96	17	05/20/96	*	*	*	*	*	*	*	*	*	*									*	*
96	17	06/03/96	*	*	*	*	*	*	*	*	*	*									*	*
96	17	06/17/96	*	*	*	*	*	*	*	*	*	*									*	*
96	17	07/01/96	*	*	*	*	*	*	*	*	*	*									*	*
96	17	07/15/96	*	*	*	*	*	*	*	*	*	*									*	*
96	17	07/30/96	*	*	*	*	*	*	*	*	*	*									*	*
96	17	08/14/96	LS MS JT	LS MS MC	21.5	24.0	6.40	7.00	2.50	3.00	73.75	84.79	7.2	7.2	30	4640	55	175	55	210	16.5	29
96	17	08/29/96	MS MR JT	MC MS LS	23.0	24.0	13.20	7.80	1.40	2.00	155.63	93.99	7.5	7.3	680	770	45	97.5	45	215	18	28
96	17	09/16/96	MC MS EA	LS MS	19.5	18.5	7.00	8.80	0.30	3.10	76.67	95.88	7.1	6.9	1400	4800	15	117.5	15	200	20	22
96	17	09/30/96	EB RB BT	BT DG	16.5	16.0	10.10	9.60	2.00	0.90	104.99	98.18	7.3	7.3	900	600	20	172.5	20	185	17	*
96	17	10/15/96	BT MS MC	LS	10.0	10.5	11.20	10.20	0.00	0.00	99.71	91.87	8.0	7.3	1500	800	35	268	35	280	7	10
96	17	10/29/96	KB MS MS	LS MS	11.0	11.0	10.80	11.00	0.20	0.60	98.53	100.58	7.8	8.0	100	300	105	185	105	220	12	11
96	17	11/06/96	MS LS	JT MS MP	6.0	6.0	12.60	12.20	0.20	0.20	101.88	98.65	8.0	7.8	400	280	80	172.5	80	185	9	14
97	17	04/23/97	LS, PS, BT	LS, LS	15.0	16.0	11.50	12.30	1.00	1.90	115.19	126.47	7.6	7.6	10	40	130	75	130	190	13.5	15
97	17	05/06/97	MS, LS	PS, LS	16.0	17.0	10.30	10.60	0.60	1.50	105.16	111.05	8.0	7.4	50	90	95	140	95	140	11	16
97	17	05/22/97	PS, PC, MS, MR, JT, EA	MS, JT, BT	16.0	13.5	10.10	10.10	1.90	1.40	103.85	98.12	8.0	7.8	100	150	90	165	90	185	12	10
97	17	06/05/97	PS, EA, TP, BT, MC, SA	MS, JT, BT	7.0	18.0	8.90	9.30	0.10	0.85	73.74	99.12	7.6	7.5	260	250	65	180	65	180	12	17
97	17	06/23/97	PS, RP, LS	LS, PS, RP	24.0	24.0	8.60	9.60	0.80	3.10	103.00	116.34	7.4	7.2	650	650	50	125	50	130	26	25
97	17	07/07/97	PS, LS, BT	LS	24.0	24.0	8.90	8.60	3.10	3.10	107.86	104.22	7.4	7.6			55	65	55	150	27	26
97	17	07/21/97	BT, LS	BT, DG	22.5	21.5	*	7.00	6.05	1.20		80.11	7.7	7.6	400	600	50	107.5	50	170	23	20
97	17	08/04/97	AM, AA	KF	22.5	23.0	9.20	8.50	3.40	0.30	108.56	99.65	8.1	7.5	780	360	45	140	45	175	22	20.5
97	17	08/19/97	LS, BT	BT, DG, SJ, KF	22.0	23.0	8.40	8.90	2.50	1.60	97.73	105.04	7.5	6.9	880	TNTC	30	105	30	170	18	25
97	17	09/03/97	SA, EA, PS, RP	PS, LS	20.0	20.0	7.70	8.10	3.40	3.10	86.59	90.94	7.1	7.2	750		30	135	30	185	18	24
97	17	09/18/97	RP, PS, EA, SA	LS, PS	20.0	21.0	9.50	8.40	0.80	1.80	105.38	95.52	7.2	7.2	150	20	27		27	205	21	26.7
97	17	10/02/97	SA, PS	LS, PS	13.0	15.0	10.40	8.70	2.00	10.20	100.27	91.73	7.4	6.9	730		35	155	35	155	10	16
97	17	10/17/97	SA, RP, PS	JF,TH	11.5	12.5	10.20	9.75	1.28	0.33	94.68	92.09	7.2	7.2	460	260	70	240	70	280	8	17
97	17	11/03/97	JF	JF	10.5	11.0	10.10	*	0.00	0.30	90.97	STRONG	8.0	7.8				40	200	150	13	15
98	17	05/12/98	PS, EA, SA, LH	LS, PS	12.0	13.0	10.00	10.20	0.30	0.40	93.39	97.48	7.1	7.1	70	60	105	124.5	105	275	12.8	19.4
98	17	06/10/98	BT,DG	LH, DP, LS	18.0	19.0	8.70	8.90	0.30	0.60	92.45	96.67	7.3	7.1	210	110	65		65		20	25
98	17	07/09/98	PS,LS	LS,PS	20.0	22.0	7.80	8.40	0.80	1.40	86.52	97.18	7.1	7.4	110	60	70	145	70	180	20	31
98	17	08/10/98	LS	LS, LS	25.0	26.0	8.50	8.50	2.10	2.50	104.39	106.52	8.1	7.7	200	190	45	178	45	215	28	34
98	17	09/09/98	LM,KC,AD,LS	BT, DG	21.0	21.0	9.10	10.00	2.40	7.10	103.80	116.96	7.1	7.8	580	800	40	82.5	40	200	26	16
98	17	10/07/98	LS,LM,AM	BT, DG	13.0	14.0	10.60	10.40	0.60	6.20	101.41	104.92	7.0	7.4	220	410	45	165	45	190	8	15
98	17	11/05/98	KC,AH,LH,LS	LS	7.0	7.0	*	10.40	0.20	1.60	*	86.92	7.4	7.2	0	10	55	102.5	55	135	4	10
99	17	04/29/99	BT, BK, DG	BT, DG	8.0	13.0	10.00	10.00	0.90	0.75	85.31	95.75	7.4	7.9	100	100	45.0	160.0	45.0	160.0	10.5	16.0
99	17	05/17/99	AH, KC, RG, LS	KC, LS	17.0	18.0	9.30	8.70	0.20	0.30	96.76	92.45	7.4	7.0	40	10	65.0	160.0	65.0	165.0	19.0	21.0
99	17	06/15/99	LS, PS	LS, LS	24.0	24.5	7.10	7.70	1.90	2.00	85.51	93.64	7.3	6.9	300	200	45.0	100.0	45.0	180.0	24.0	26.0
99	17	07/13/99	LS, LS	LS, CW	23.0	23.0	7.30	8.00	2.80	4.85	86.69	96.03	6.9	7.1	280	300	40.0	62.5	40.0	75.0	18.0	23.0
99	17	08/12/99	CC, EM	CC	21.0	23.5	7.80	8.20	3.70	7.20	89.59	100.59	7.1	7.6	1700	700	30.0	130.0	30.0	145.0	22.0	30.0
99	17	09/13/99	AS,KC,LS,RG	LS	22.0	20.5	7.80	8.40	1.40	1.00	90.23	94.19	7.4	7.4	660	800	35.0	80.0	35.0	165.0	26.0	22.0
99	17	10/12/99	AS,KC,LS	LS	11.0	11.0	10.30	10.10	0.00	0.00	93.86	92.04	6.9	7.1	400	250	65.0	155.0	65.0	155.0	9.5	14.0
99	17	11/09/99	BT	BT, DG	6.0	5.0	11.20	11.30	0.20	0.00	90.56	88.97	7.1	7.6	40	400	50.0	140.0	50.0	140.0	6.0	8.0
00	17	04/19/00	AT, TB, RG	AS, TB, RG	10.0	10.0	11.00	11.60	0.50	0.50	98.21	103.56	7.4	7.5	40	40	80.00	185.00	80.00	185.00	7.50	9.00
00	17	05/18/00	AS, AT, RG, TB	MG, LS, TB	15.0	15.0	10.30	10.20	1.10	0.30	103.23	101.78	7.6	7.4	40	70	37.00	165.00	37.00	185.00	20.00	23.00
00	17	06/19/00	LS, KL	LS	19.5	20.5	7.20	7.00	0.70	1.00	79.03	78.49	7.2	7.1	240	0	60.00	140.00	60.00	140.00	19.50	23.00
00	17	07/17/00	LS, KL	LS	20.0	20.0	8.20	9.20	0.70	0.80	90.91	102.05	6.6	7.4	0	180	80.00	132.50	80.00	160.00	18.00	20.50
00	17	08/15/00	LS, CN, TB, MG, AT, CD	KL, NN	20.0	21.5	8.40	8.30	2.80	1.20	94.16	94.99	6.7	7.5	300	160	35.00	142.50	35.00	150.00	25.00	23.50
00	17	09/14/00	CN, TB, MG, AT, CD, LS	LS, TB, CD	14.0	21.5	8.40	9.10	2.80	3.80	83.15	105.58	6.7	6.9	150	170	35.00	160.00	35.00	160.00	25.00	24.00
00	17	10/16/00	CD, AR, BT	LS, PS	10.0	9.0	10.30	8.40	2.30	0.00	92.90	73.03	7.4	6.8	70	340	65.00	108.00	65.00	165.00	5.00	5.00
00	17	11/13/00	BT, LS, CN, TB, CD, MG, AT	LS, CD, MG	8.0	8.5	10.90	10.80	0.10	0.10	92.56	92.82	7.2	7.4	170	180	100.00	105.00	100.00	225.00	7.00	14.00
01	17	04/24/01	DD, KD	DD	14.0	16.0	9.80	9.80	0.00	0.30	95.53	99.90	7.9	7.0	60	0	60	155	60	205	16	29
01	17	05/23/01	MP, AF, RH, LS	LS. RH, MP	5.0	17.0	9.00	10.10	0.20	0.20	70.94	105.08	6.9	7.0	150	70	55	170	55	170	13.8	17
01	17	06/21/01	BT, AR	BT, KD	24.0	23.0	8.00	7.00	0.60	0.95	95.72	82.34	7.4	7.1	0	180	65	97.5	65	155	18	17
01	17	07/23/01	BT, SM, AG, CS	BT, HS, RM	25.0	27.0	9.40	8.40	3.60	1.90	116.33	106.85	8.2	8.0			35	97.5	35	167	26	31
01	17	08/20/01	BT	BT, KR, BW	23.0	23.5	7.10	7.50	3.50	7.65	84.63	92.22	*	7.4	550	640	40	130	40	205	22.5	22
01	17	09/18/01	BT	BT, DG	19.0	22.0	7.80	8.40	8.10	9.30	88.21	101.33	7.3	7.5	*	*	22.5	165	22.5	190	18	22
01	17	10/17/01	RH, AF, LS	AF, RH, LS	13.0	14.0	9.90	9.10	0.70	0.80	94.77	89.10	6.9	7.0	160	0	100	225	100	565	10	13

Site 17 - Dover Foot Bridge

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L	WTEMP-H	DO-L	DO-H	SAL-L	SAL-H	SAT-L	SAT-H	pH-L	pH-H	FECAL-L	FECAL-H	LP-L	LP-H	DEPTH-L	DEPTH-H	ATEMP-L	ATEMP-H
					°C	°C	ppm	ppm	ppt	ppt	%	%			CFU/100ml	CFU/100ml	cm	cm	cm	cm	°C	°C
01	17	11/01/01	AF, LKS, PS	AM, LS	8.0	19.5	11.10	10.90	0.20	2.00	94.32	120.46	7.1	7.1	90	110	70	160	70	160	6	11
02	17	04/29/02	LKS	LKS	8.0	8.0	10.90	12.10	0.20	0.20	92.62	102.81	7.1	7.2	120	120	80	165	80	189	1	5
02	17	05/28/02	JM, CK, LS	LS	17.0	19.0	9.20	9.10	0.20	0.60	95.72	98.84	7.1	7.1	10	30	70	695	70	165	16	23
02	17	06/25/02	LS, MP, CK	PS, LS	19.0	20.0	7.90	8.60	0.60	0.80	85.81	95.39	7.3	7.5	60	210	75	70	75	160	18	24
02	17	07/25/02	LS, KR, MN	LS, MN	22.0	24.0	8.30	7.40	1.40	1.90	96.02	89.13	7.3	7.2	150	340	35	672.5	35	155	18	21
02	17	08/26/02	BT, JL	JL, LS	23.0	24.0	9.40	10.00	8.50	17.90	115.04	131.23	7.4	7.7	260	240	37.5	42.5	37.5	155	25	24
02	17	09/23/02	BT, JL	JL, NH	21.0	21.5	8.50	7.90	2.50	6.40	97.01	92.93	7.2	7.4	230	>600	50	105	50	155	20	21
02	17	10/22/02	JL, BT	JL, MN	8.0	8.0	11.30	10.90	1.60	4.20	96.79	94.77	7.3	7.2	90	80	35.0	125.0	35.0	145.0	1.5	8.0
02	17	11/06/02	AR, BT	BT, AP	5.0	6.0	12.00	11.80	1.50	3.40	95.31	97.21	7.1	7.3	80	64	50.0	125.0	50.0	220.0	2.0	6.0

Site 18 - Maplewood

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L °C	WTEMP-H °C	DO-L ppm	DO-H ppm	SAL-L ppt	SAL-H ppt	SAT-L %	SAT-H %	pH-L	pH-H	FECAL-L CFU/100ml	FECAL-H CFU/100ml	LP-L cm	LP-H cm	DEPTH-L cm	DEPTH-H cm	ATEMP-L °C	ATEMP-H °C
97	18	04/23/97	SM, TM, AS, NJ	TM, SM	8.0	9.5	9.90	10.40	13.90	17.10	91.24	101.23	7.40	7.80	180	10	90.0	*	90.0	*	9.0	15.0
97	18	05/06/97	TM, SM	TM	8.0	8.5	9.00	8.90	22.70	23.50	87.71	88.19	7.60	7.80	40	10	15.0	205.0	15.0	280.0	8.0	9.0
97	18	05/22/97	TM, SM	TM, SM	8.0	11.0	8.70	9.60	24.70	24.50	85.91	101.29	7.60	7.80	*	*	22.0	167.5	22.0	265.0	9.0	17.0
97	18	06/05/97	TM, SM	TM, SM	12.0	14.0	8.00	9.50	27.15	28.20	87.74	109.40	7.30	7.90	60	0	28.0	250.0	28.0	280.0	10.0	18.0
97	18	06/23/97	TM ,SM	TM, SM	18.0	17.0	8.20	8.90	28.90	29.20	102.71	109.54	7.80	7.80	150	10	20.0	192.5	20.0	250.0	22.0	28.0
97	18	07/07/97	TM, SM	TM, SM	16.0	17.0	8.70	7.70	30.30	29.90	105.73	95.20	7.80	7.60	*	*	250.0	33.0	250.0	33.0	29.0	26.0
97	18	07/21/97	TM , SM, CH	TM, SM, CH	17.0	17.0	6.80	8.20	29.00	28.35	83.59	100.39	7.70	7.80	70	0	20.0	215.0	20.0	215.0	18.0	17.0
97	18	08/04/97	TM, SM	TM, SM	18.0	17.5	6.60	8.40	28.60	30.60	82.51	105.32	7.80	8.10	TNTC	*	20.0	245.0	20	245.0	18.0	25.0
97	18	08/19/97	TM, SM	TM, SM	16.5	16.0	6.30	8.20	30.30	30.45	77.32	99.75	7.80	7.90	110	0	30.0	270.0	30.0	270.0	16.0	22.0
97	18	09/03/97	SM, TM, DM	AM, JM	18.5	19.0	6.10	7.90	30.15	31.20	77.74	102.32	7.70	7.80	30	0	30.0	245.0	30.0	245.0	17.5	19.0
97	18	09/18/97	TM, SM	TM, SM	17.0	18.0	6.20	7.60	30.40	30.20	76.89	95.97	7.80	8.10	*	*	30.0	270.0	30.0	270.0	17.5	29.0
97	18	10/02/97	TM, SM	TM, SM	9.0	12.5	7.40	8.50	29.90	30.00	77.40	95.98	7.80	7.90	30	0	30.0	225.0	30.0	225.0	9.0	18.0
97	18	10/17/97	TM, SM	TM,SM	10.5	13.0	7.50	8.90	29.35	31.50	80.79	102.58	7.60	8.00	40	0	30.0	275.0	30.0	275.0	5.0	17.0
97	18	11/09/97	TM, SM	TM, SM	10.0	11.0	7.60	8.70	22.30	27.10	77.32	93.35	7.50	7.70	*	*	25.0	215.0	25.0	235.0	8.0	14.5
98	18	05/12/98	TM, SM	TM, SM	8.5	11.5	9.40	9.40	9.95	18.15	85.57	96.33	7.10	7.80	460	70	43.5	142.5	55.0	280.0	6.0	13.0
98	18	06/10/98	TM, SM	TM	13.0	16.0	8.30	9.50	26.90	27.25	92.83	113.24	7.80	7.90	10	20	30.0	215.0	30.0	215.0	18.0	30.0
98	18	07/09/98	TM, SM	TM	17.0	19.5	6.10	7.50	21.20	22.75	71.47	93.11	7.40	7.80	60	20	48.0	255.0	48.0	255.0	18.0	26.5
98	18	08/10/98	TM, SM	TM	19.5	18.0	6.90	8.20	28.50	29.20	88.70	102.90	7.70	7.80	50	0	10.0	250.0	10.0	250.0	24.5	31.0
98	18	09/09/98	TM,SM	AR, CC	15.5	15.0	6.70	7.90	28.70	30.45	79.79	94.20	7.80	7.70	60	0	30.0	275.0	30.0	275.0	15.5	11.0
98	18	10/07/98	TM, SM	TM	9.0	10.5	8.00	8.50	30.43	30.85	83.98	92.49	7.60	7.50	10	0	10.0	250.0	10.0	250.0	3.0	10.0
98	18	11/05/98	TM,SM	TM,SM	6.0	8.0	8.20	8.70	26.25	28.60	78.06	88.18	7.60	7.40	10	0	20.0	300.0	20.0	300.0	2.0	10.0
99	18	04/29/99	TM, SM, CM	TM, SM, CM	8.5	10.5	9.00	5.50	27.30	28.30	91.45	58.83	7.70	7.80	0	10	30.0	260.0	30.0	260.0	9.0	14.0
99	18	05/17/99	TM, SM	TM, SM	12.0	12.0	8.50	10.10	28.75	29.40	94.21	112.42	7.40	7.80	10	0	20.0	250.0	20.0	250.0	12.5	21.0
99	18	06/15/99	TM , SM	TM, SM	17.5	18.5	7.30	8.10	30.15	30.15	91.27	103.23	7.70	8.00	10	0	20.0	250.0	20.0	250.0	21.0	29.0
99	18	07/13/99	TM. SM	TM, SM	16.0	14.5	6.60	8.50	30.65	31.75	80.39	101.18	7.60	7.70	100	20	30.0	250.0	30.0	250.0	18.0	20.5
99	18	08/12/99	TM, SM	TM, SM	16.5	17.0	6.20	7.90	29.90	31.25	75.90	98.51	7.80	7.80	320	0	30.0	45.0	30.0	45.0	22.0	28.0
99	18	09/13/99	TM	TM	18.5	18.5	5.70	8.00	28.95	30.50	72.10	102.18	7.50	7.60	0	0	30.0	240.0	30.0	240.0	22.0	25.0
99	18	10/12/99	TM,SM	TM,SM	11.0	13.0	7.50	8.30	28.05	29.45	80.98	94.38	7.30	7.60	0	0	12.0	220.0	12.0	220.0	6.0	16.0
99	18	11/09/99	TM,SM	TM,SM	6.0	7.5	8.20	8.30	25.60	27.85	77.71	82.73	7.50	7.30	200	10	20.0	255.0	20.0	255.0	3.0	9.5
00	18	04/19/00	TM, SM	TM, SM,	6.5	7.0	10.50	11.30	22.15	26.35	98.40	110.22	7.30	7.30	10	10	25.0	155.0	25.0	250.0	4.0	6.0
00	18	05/18/00	TM, SM	TM, CM,	12.0	13.0	8.50	9.90	25.20	26.15	92.06	110.20	7.20	7.40	20	0	20.0	245.0	20.0	245.0	16.0	21.0
00	18	06/19/00	SM, TM	TM	15.0	18.0	7.10	8.30	23.65	26.20	81.10	102.24	7.10	7.40	100	30	25.0	210.0	25.0	210.0	20.0	25.0
00	18	07/17/00	SM, TM	SM	17.0	17.0	6.90	7.90	14.50	26.40	77.72	95.55	6.80	7.20	150	30	20.0	220.0	20.0	220.0	18.0	21.0
00	18	08/15/00	SM, TM	SM, TM	18.0	19.5	6.50	7.15	18.10	27.20	76.27	91.18	7.10	7.60	500	60	20.0	225.0	20.0	225.0	18.0	23.0
00	18	09/14/00	SM, TM	TM	16.0	17.5	6.20	8.10	28.05	31.40	74.28	102.07	7.40	7.60	40	0	25.0	230.0	25.0	230.0	13.0	29.0
00	18	10/16/00	SM, TM	SM, TM	10.0	10.0	7.90	8.20	29.40	30.00	84.21	87.76	7.60	7.80	50	10	30.0	240.0	30.0	240.0	14.0	10.5
00	18	11/13/00	SM, TM	SM, TM	8.0	9.5	8.40	8.60	21.45	25.45	81.20	88.30	7.40	7.60	20	10	30.0	270.0	30.0	270.0	5.0	12.0
01	18	04/24/01	WT, ED	WT, JM	7.0	12.0	9.00	9.30	19.30	22.50	83.80	99.01	7.10	7.80	20	0	38.0	265.0	38.0	276.0	14.0	21.0
01	18	05/23/01	WT, CH	WT, BT	12.0	14.5	7.60	8.30	14.90	28.70	77.21	96.87	7.50	7.90	0	0	35.0	200.0	35.0	255.0	13.0	18.0
01	18	06/21/01	WT, ED	WT, ED	17.5	17.0	6.05	7.70	22.60	26.40	72.19	93.13	7.10	7.80	10	40	0.0	157.5	0.0	240.0	18.0	16.5
01	18	07/23/01	JM, ED	JM, ED	19.0	19.0	6.70	8.30	29.15	30.90	85.67	107.29	8.00	8.20			0.0	250.0	0.0	265.0	26.0	31.5
01	18	08/20/01	WT, ED	JM, WT	17.0	17.0	6.00	8.80	31.10	31.80	74.75	110.12	7.60	7.60	30	30	0.0	155.0	0.0	185.0	20.0	24.0
01	18	09/18/01	ED, CH	WT, JM	14.0	16.0	7.20	7.60	33.40	33.05	85.78	94.02	7.60	7.80	80	0	0.0	130.0	0.0	200.0	13.5	25.0
01	18	10/17/01	JM, ED	JM, ED	12.5	12.0	7.50	8.25	23.60	31.90	81.27	93.37	7.70	7.60	10	70	19.0	230.0	19.0	300.0	13.5	13.5
01	18	11/01/01	JM, ED	JM, WT	8.5	10.0	8.00	8.40	32.30	32.60	84.11	91.50	7.40	7.50	20	0	55.0	248.0	55.0	248.0	8.0	13.0
02	18	04/29/02	BT, AM	WT, AM	6.5	8.0	9.90	10.30	16.05	26.50	89.19	102.93	7.10	7.90	310	0	20.0	166.0	20.0	252.0	4.0	6.0
02	18	05/28/02	MH, AM	WT, MH	14.0	14.5	7.40	8.30	25.90	27.90	83.98	96.37	7.30	7.50	0	0	15.0	260.0	15.0	260.0	15.0	19.0
02	18	06/25/02	MH, AM	WT, AM	16.0	17.5	6.70	7.30	25.10	26.90	78.80	89.43	7.40	7.50	0	0	20.0	255.0	20.0	255.0	16.0	24.5
02	18	07/25/02	WT, AM	AM, WT, MH	18.0	19.0	6.80	7.75	31.50	31.90	86.58	100.82	7.20	7.70	5	0	20.0	250.0	20.0	250.0	19.0	24.0
02	18	08/26/02	MH, CH	AM, MH, WT	19.0	20.0	6.50	7.30	32.80	33.20	85.04	97.54	7.70	7.70	12	0	60.0	255.0	60.0	255.0	22.5	26.0
02	18	09/23/02	MH, AM	AM, WT	19.5	20.0	6.40	6.60	23.30	28.90	79.72	85.86	7.40	7.60	>120	120	50.0	197.5	60.0	265.0	21.0	24.0
02	18	10/22/03	AM,CH	AM,WT	9.0	11.0	7.40	7.90	31.70	32.60	78.36	87.94	7.5	7.4	14	0	55.0	21.5	55.0	265.0	-1.0	10.5
02	18	11/06/02	AM,MH	WT,CH	7.5	9.0	8.20	8.10	28.00	31.90	81.82	85.89	7.5	7.7	28	6	45.0	282.5	45.0	355.0	4.0	9.0

Site 19 - Bartlett Ave.

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L °C	WTEMP-H °C	DO-L ppm	DO-H ppm	SAL-L ppt	SAL-H ppt	SAT-L %	SAT-H %	pH-L	pH-H	FECAL-L CFU/100ml	FECAL-H CFU/100ml	LP-L cm	LP-H cm	DEPTH-L cm	DEPTH-H cm	ATEMP-L °C	ATEMP-H °C
97	19	04/23/97	NJ, AS, TM, SM	NJ, AS	8.0	11.0	10.40	10.60	1.10	12.70	88.82	103.94	7.4	7.5	22	10	22.0	83.0	22.0	83.0	12	14
97	19	05/06/97	AS, NJ	AS	9.0	10.0	9.50	11.20	2.00	2.60	83.54	101.19	7.5	7.6	50	10	17.0	88.0	17.0	88.0	10	11
97	19	05/22/97	NJ, AS, KD	AS, KD	11.0	14.0	9.40	11.80	1.90	7.90	86.58	120.20	7.2	7.6	*	*	25.0	60.0	25.0	60.0	12	18
97	19	06/05/97	CJ, KD, NJ	KD, CJ	13.0	15.0	7.90	9.00	0.30	1.50	75.45	90.40	7.8	6.9	170	100	20.0	75.0	20.0	75.0	11	17
97	19	06/23/97	NJ, BJ	NJ, BJ	20.5	23.0	7.70	7.30	1.10	2.20	86.38	86.43	8.0	7.9	450	370	12.5	78.0	12.5	78.0	26.5	27.5
97	19	07/07/97	AS, NJ, CJ	EH, ML	18.0	24.0	8.80	10.80	2.10	13.50	94.41	138.32	7.8	8.2	760	210	10.0	55.0	10.0	55.0	23	29
97	19	07/21/97	NJ, KD	NJ, AS	18.0	19.0	8.00	9.10	9.60	25.60	89.42	113.85	7.7	8.1	510	280	10.0	75.0	10.0	75.0	19	20
97	19	08/04/97	NJ, KD	NJ, KD	19.0	21.0	8.40	8.90	1.80	2.00	91.82	101.31	7.8	7.8	TNTC	*	10.0	65.0	10.0	65.0	19	21
97	19	08/19/97	AS, KD	AS, KD	16.0	21.0	8.60	9.80	1.50	17.95	88.23	121.73	7.1	7.6	TNTC	200	5.0	72.5	5.0	95.0	15	26
97	19	09/03/97	AS, KD	AS, KD, NJ	19.0	19.0	8.90	9.10	1.35	13.00	97.05	105.76	8.1	7.6	510	30	10.0	65.0	10.0	65.0	21	21
97	19	09/18/97	AS, SK	AS	16.0	19.0	8.80	8.90	2.20	7.60	90.63	100.37	7.6	7.8	*	*	10.0	110.0	10.0	110.0	18	28
97	19	10/02/97	NJ, KD, AS	KD	9.0	12.0	10.60	10.70	1.60	22.00	93.00	113.56	7.5	7.8	220	0	5.0	60.0	5.0	60.0	4	16
97	19	10/17/97	KD, NJ, AS	AR, JC	10.0	12.0	9.90	9.10	1.80	28.10	89.04	100.43	INVALID	7.8	1030	20	10.0	125.0	15.0	125.0	5	16.5
97	19	11/03/97		SM, TM	11.0	11.5	8.30	8.50	1.15	1.48	76.12	78.99	7.1	7.1	*	*	25.0	90.0	25.0	90.0	8	14.5
98	19	05/12/98	AS, NJ	AS, NJ	*	14.0	9.30	10.40	*	0.80	*	101.83	7.5	7.6	440	300	29.0	55.0	29.0	55.0	9	14
98	19	06/10/98	NJ,AS	AS	16.0	19.0	8.00	8.10	0.85	3.60	81.79	89.39	7.6	7.8	300	140	10.0	50.0	10.0	50.0	17	19
98	19	07/09/98	AS,NJ	NJ,ML	17.0	21.5	8.20	8.30	1.25	3.40	85.79	96.09	7.8	7.8	100	30	8.0	67.0	8.0	67.0	18	25.5
98	19	08/10/98	ML, NJ	ML, NJ	22.0	24.0	9.00	8.80	0.10	12.55	103.42	112.12	8.1	7.0	50	10	5.0	73.0	5.0	73.0	25	30
98	19	09/09/98	ML,RB,AS	AS, ML, RB	17.0	18.0	9.05	8.70	2.20	5.50	95.17	95.07	7.8	7.8	230	240	5.0	120.0	5.0	120.0	18	18
98	19	10/07/98	AS ,ML	CH, JM	8.0	12.0	10.90	9.50	1.70	23.55	93.41	101.82	7.6	7.8	0	0	5.0	105.0	5.0	105.0	5	16
98	19	11/05/98	NJ,AS	ML, AS	4.0	6.5	11.50	10.70	1.60	11.90	89.05	93.93	8.0	7.9	0	100	12.0	120.0	12.0	120.0	2	10.5
98	19	11/12/98	AS, NJ	ML, RB, AS	6.0	7.0	9.80	11.00	2.90	6.15	80.50	94.42	7.5	7.5	0	300	40.0	10.0	40.0	10.0	3	12
99	19	04/29/99	ML, AS	ML, AS	8.0	13.0	10.40	11.40	1.40	2.20	88.98	110.03	7.9	8.4	100	300	12.0	73.0	12.0	73.0	9.0	14.0
99	19	05/17/99	ML, AS	ML,AS	13.0	17.5	9.70	11.90	1.63	2.25	93.33	126.46	7.7	8.3	0	300	6.0	80.0	6.0	80.0	13.0	19.0
99	19	06/15/99	ML, AS	AS, ML	21.0	23.0	8.10	10.20	1.75	9.80	92.08	125.71	8.1	7.9	1380	200	8.0	80.0	8.0	80.0	21.0	27.0
99	19	07/13/99	NJ, AS	NJ, BJ	18.5	17.5	8.30	6.60	0.30	26.15	89.09	80.48	7.0	* -	6600	200	8.0	80.0	8.0	80.0	17.0	20.0
99	19	08/12/99	ML, NJ	AS, NJ	18.0	21.0	7.60	7.90	0.30	15.70	80.76	96.88	7.7	7.9	3800	480	15.0	85.0	15.0	85.0	19.0	28.0
99	19	09/13/99	ML,AS	AS,NJ	17.5	20.0	9.60	8.20	1.35	14.30	101.53	97.88	7.9	8.0	80	200	7.0	73.0	7.0	73.0	20.0	22.0
99	19	10/12/99	AS,ML	AS,MB	10.0	12.5	10.00	10.70	0.90	11.30	89.48	107.57	8.0	8.1	4	3	10.0	60.0	10.0	60.0	10.0	15.0
99	19	11/09/99	NJ, MJ	ML, AS, PA, RL	5.0	6.0	8.00	12.40	1.50	2.85	63.54	101.82	8.1	7.8	860	6600	5.0	80.0	5.0	80.0	3.0	11.0
00	19	04/19/00	ASB, MLR	ASB, MLR	7.0	8.0	11.80	11.90	1.20	1.90	98.39	102.10	7.6	7.7	1800	600	14.0	75.0	14.0	90.0	5.00	7.00
00	19	05/18/00	AS, ML	AS, ML, BG	14.0	16.0	9.00	10.60	0.90	2.25	88.17	109.20	7.6	7.5	1800	1500	10.0	65.0	10.0	65.0	15.00	23.00
00	19	06/19/00	AS, ML	AS	18.0	19.0	9.30	8.90	1.60	2.10	99.51	97.44	7.5	7.6	3200	1000	15.0	47.0	15.0	47.0	18.00	25.00
00	19	07/17/00	AS, ML	AS, ML	17.0	17.5	8.10	8.00	0.85	0.90	84.57	84.40	7.1	7.3	900	800	18.0	55.0	18.0	55.0	16.50	21.00
00	19	08/15/00	AS, ML	AS, ML	18.0	20.0	7.40	7.40	0.30	2.10	78.64	82.65	7.3	7.8	2100	900	15.0	65.0	15.0	65.0	18.50	21.00
00	19	09/14/00	AS, ML	AS, ML, NFS students	17.0	19.0	7.90	7.90	1.20	4.10	82.63	87.42	7.5	7.6	390	270	7.0	70.0	7.0	70.0	13.00	23.00
00	19	10/16/00	CH, BT	AS, ML	11.0	10.0	9.50	8.60	0.30	14.70	86.72	83.44	7.6	7.6	30	600	8.0	65.0	8.0	65.0	7.00	6.00
00	19	11/13/00	ML, AS	ML, AS	7.0	8.5	10.00	10.50	1.10	1.25	83.34	90.83	7.3	7.4	70	70	12.0	115.0	12.0	115.0	5.00	11.00
01	19	04/24/01	ML, AS, SM	AS, CR	13.0	18.0	10.40	9.80	1.55	1.90	100.02	105.03	7.5	7.9	10	130	10.0	80.0	10.0	80.0	14	25
01	19	05/23/01													130	60						
01	19	06/21/01	AS, ML	AS, ML	20.0	20.0	6.60	7.50	1.45	2.10	73.46	83.76	7.3	7.3	190	180	10.0	55.0	10.0	55.0	17	19
01	19	07/23/01	ML, JB	AS	22.5	25.5	8.50	9.90	0.85	14.50	98.98	130.96	7.9	7.9			7.0	50.0	7.0	50.0	24.5	33
01	19	08/20/01	ML, NC	ML, NC	21.0	22.0	9.40	8.00	2.40	10.60	107.22	97.19	7.8	7.7	270	500	7.0	100.0	7.0	100.0	21	24
01	19	09/18/01	AS, ML	ML, AS, JM, CB, DZ	14.0	17.0	10.40	9.80	0.75	27.40	101.80	119.27	7.7	8.0	60	2800	5.0	100.0	5.0	100.0	13	24.5
01	19	10/17/01	ML, AS	ML, AS, BH, BA, JL	13.0	13.0	8.20	9.30	0.35	0.38	78.34	88.86	7.2	7.2	180	10	20.0	35.5	20.0	118.0	14	15
01	19	11/01/01	ML, SM	ML, MS	8.0	10.0	11.20	9.80	0.90	10.05	95.55	92.46	7.4	7.9	110	500	0.8	70.0	0.8	70.0	8	13
02	19	04/29/02	AS, LS, RG, KA, WB	AS, MB	5.0	7.0	10.70	11.50	2.25	6.10	85.36	98.68	8.0	8.0	490	260	30.0	95.0	30.0	95.0	4	6
02	19	05/28/02	AS, ML, KM, BN	AS, ML	15.0	16.5	11.00	9.20	1.20	4.80	110.31	97.10	7.5	7.5	150	20	20.0	65.0	20.0	65.0	16	18.5
02	19	06/25/02	ML, SM	ML, NL	17.0	19.0	8.80	8.30	1.50	1.90	92.19	90.77	7.5	7.4	0	10	15.0	65.0	15.0	65.0	15	24
02	19	07/25/02	ML, ST	ML, MC	18.0	20.0	8.90	8.70	1.60	2.40	95.23	97.32	7.8	7.6	220	36	10.0	63.0	10.0	63.0	18	22
02	19	08/26/02	ML, AS	AS, ML	18.0	22.0	8.30	8.80	1.90	15.30	88.95	109.72	7.6	7.8	570	340	5.0	65.0	5.0	65.0	23	27
02	19	09/23/02	ML, AS, ML	ML, AS, NM, RG	20.0	21.0	6.90	7.00	0.80	1.20	76.54	79.35	7.3	7.3	>600	>600	20.5	70.0	23.0	70.0	22	24
02	19	10/22/02	AS, AM-W	AS, JG	5.0	8.5	11.1	8.6	1.5	24.7	88.16	85.89	6.9	7.5	>600	2	10.0	71.0	10.0	71.0	0.0	10.0
02	19	11/06/02	*	*	*	*	*	*	*	*	*	*	*	*	>600	460	*	*	*	*	*	*

Site 20 - Junkins Ave.

YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L °C	WTEMP-H °C	DO-L ppm	DO-H ppm	SAL-L ppt	SAL-H ppt	SAT-L %	SAT-H %	pH-L	pH-H	FECAL-L CFU/100ml	FECAL-H CFU/100ml	LP-L cm	LP-H cm	DEPTH-L cm	DEPTH-H cm	ATEMP-L °C	ATEMP-H °C
97	20	04/23/97	DR, ML	JR, BR	9.0	16.0	3.30	1.30	15.30	5.10	31.40	13.60	7.3	6.9	TNTC	TNTC	35.0	30.0	35.0	30.0	9.0	16.0
97	20	05/06/97	ML, DR	JR, DR	11.0	12.0	7.60	7.17	24.40	25.30	80.13	77.71	7.4	7.6	0	0	25.0	40.0	25.0	40.0	10.0	10.0
97	20	05/22/97	ML, DR	JR, DR	12.0	16.0	6.60	8.70	24.40	25.10	71.12	102.33	7.4	7.8	30	10	30.0	25.0	30.0	25.0	10.0	16.0
97	20	06/05/97	EH, DR	JR, DR	15.0	17.0	8.20	9.30	2.15	28.55	82.65	114.00	7.1	7.8	10	10	33.0	45.0	33.0	45.0	11.0	15.0
97	20	06/23/97	ML, EH	DR, SM	21.0	22.0	4.40	8.30	29.50	29.60	58.52	112.48	7.6	7.8	10	0	35.0	20.0	35.0	20.0	23.0	27.0
97	20	07/07/97	EH, ML	DR, JR	22.5	27.0	4.80	6.10	30.80	31.50	66.11	91.20	7.4	7.7	0	0	25.0	15.0	25.0	15.0	23.0	26.0
97	20	07/21/97	EH, ML	EH	21.0	21.0	7.20	8.30	28.00	27.90	94.89	109.32	8.0	8.1	250	180	35.0	32.0	35.0	32.0	19.0	20.0
97	20	08/04/97	ML, EH	JR, DR	23.0	25.0	4.40	7.20	29.10	30.90	60.52	103.68	7.4	7.7	TNTC	*	30.0	27.0	30.0	27.0	18.0	21.0
97	20	08/19/97	JR, DR	JR, DR	21.0	21.0	5.30	9.30	30.20	30.80	70.79	124.68	7.6	7.8	0	0	25.0	50.0	25.0	50.0	17.0	22.0
97	20	09/03/97	DR, ML	DR., JR	22.0	23.0	4.20	5.50	28.50	29.75	56.54	75.95	7.4	7.6	0	0	30.0	30.0	30.0	30.0	20.5	20.0
97	20	09/18/97	ML, DR	DR, JR	17.0	21.0	6.00	7.30	31.20	32.80	74.79	99.09	7.5	7.6	*	*	35.0	60.0	35.0	60.0	17.0	27.0
97	20	10/02/97	ML, DR	DR, JR	8.0	12.5	6.10	7.90	31.60	31.90	63.11	90.34	7.4	7.8	0	0	0.0	25.0	0.0	25.0	5.0	15.0
97	20	10/17/97	ML, DR	DR	11.0	14.0	5.70	7.50	31.50	32.10	62.98	88.59	7.3	7.6	40	0	35.0	60.0	35.0	60.0	11.0	15.0
97	20	11/03/97	EH, ML	JR, DR	10.0	15.0	7.30	7.60	11.35	23.00	69.41	86.46	7.6	7.4	*	*	30.0	40.0	30.0	40.0	8.0	17.0
98	20	05/12/98	DR, EH	DR, EH, CH	9.0	14.0	8.30	8.50	14.05	16.50	78.38	91.04	7.2	7.4	TNTC	596	30.0	30.0	30.0	30.0	11.0	13.0
98	20	06/10/98	DR,EH	EH,DR	18.0	22.0	9.20	9.30	28.50	29.70	114.95	126.11	7.8	8.0	0	0	22.0	20.0	22.0	20.0	17.0	24.0
98	20	07/09/98	DR,EH	DR,ML	22.0	26.0	2.40	6.10	23.65	22.90	31.39	85.30	7.4	7.8	20	0	17.0	25.0	17.0	25.0	25.0	25.0
98	20	08/10/98	DR, ML	DR	25.0	28.0	5.90	7.90	29.60	30.25	84.30	119.22	7.6	7.6	0	0	25.0	25.0	25.0	25.0	24.5	29.0
98	20	09/09/98	JR,DR	JR,DR	16.0	18.5	5.90	7.40	30.30	22.90	71.71	90.20	7.7	7.4	260	TNTC	25.0	45.0	25.0	45.0	17.0	18.0
98	20	10/07/98	EH, DR	DR, EH	9.0	12.0	8.00	8.80	30.90	32.10	84.25	99.73	7.6	7.9	40	0	15.0	50.0	15.0	50.0	9.0	15.0
98	20	11/05/98	DR,EH	DR	7.0	8.0	9.60	9.60	28.90	29.15	95.28	97.67	7.7	7.6	0	0	25.0	45.0	25.0	45.0	2.0	10.0
99	20	04/29/99	ML, KK	KK, DR	11.0	13.0	7.00	7.90	27.80	29.15	75.46	89.66	7.9	7.8	0	100	25.0	26.0	25.0	26.0	9.5	13.0
99	20	05/17/99	KK, PW, JR	KK, DR, EH	16.5	20.0	5.90	6.80	28.85	28.95	71.75	88.49	7.6	7.7	0	0	20.0	35.0	20.0	35.0	15.0	17.0
99	20	06/15/99	KK, ML	DR, EH	19.0	22.0	4.70	8.90	30.50	29.90	60.61	120.83	7.6	7.8	30	10	20.0	25.0	20.0	25.0	23.0	26.0
99	20	07/13/99	KP, RL	KP, SM	16.5	17.0	4.00	7.10	31.50	31.10	44.37	88.45	7.4	7.6	10	10	10.0	28.0	10.0	28.0	17.0	19.0
99	20	08/12/99	RL, KP	SM, KP	18.0	20.5	3.50	7.00	30.80	32.90	44.37	94.21	7.6	7.8	70	30	10.0	25.0	10.0	25.0	21.0	26.0
99	20	09/13/99	RL, KH	RL, KH	18.5	24.5	11.40	*	27.45	14.65	142.86	*	8.5	8.8	50	200	10.0	25.0	10.0	25.0	20.0	22.0
99	20	10/12/99	KH, AH	KH	14.0	14.0	7.60	8.50	28.85	28.85	87.89	98.30	7.8	8.0	0	0	10.0	25.0	10.0	25.0	10.0	14.0
99	20	11/09/99	RL, KH	KH	4.5	6.0	8.80	10.50	28.00	28.90	81.76	101.79	6.5	8.0	10	0	10.0	25.0	10.0	25.0	1.5	8.0
00	20	04/19/00	KH, KP	KH	7.0	8.0	5.90	10.30	24.80	26.75	56.95	103.10	7.0	8.0	50	0	10.0	10.0	10.0	10.0	5.0	7.0
00	20	05/18/00	KH	KH	16.5	19.0	12.90	10.80	23.80	25.25	152.01	134.83	8.4	8.3	100	210	10.0	40.0	10.0	40.0	10.0	15.0
00	20	06/19/00	KH,	KH, KP	23.0	26.0	7.70	7.20	26.10	26.60	104.04	102.84	7.6	7.6	800	0	10.0	25.0	10.0	25.0	16.0	26.0
00	20	07/17/00	RL, SM	RL, SM	18.0	21.0	6.00	8.60	10.50	10.50	67.40	102.46	7.1	7.4	0	600	10.0	25.0	10.0	25.0	16.0	20.0
00	20	08/15/00	KH, KP	KH, KP	22.0	20.0	2.80	5.20	28.30	25.60	37.65	66.30	6.6	7.1	110	80	20.0	20.0	20.0	20.0	23.0	19.5
00	20	09/14/00	KH, RL	KH	16.0	25.0	4.70	8.60	30.10	31.50	57.05	124.29	6.9	7.7	0	0	10.0	25.0	10.0	25.0	13.5	2.0
00	20	10/16/00	RL, SM	KP, AH	13.0	14.0	6.50	8.70	31.50	19.65	74.92	94.97	7.4	7.5	10	20	100.0	40.0	100.0	40.0	8.0	6.0
00	20	11/13/00	KH	KH	7.0	10.0	8.10	6.40	11.85	17.50	71.96	63.17	7.1	7.1	600	600	10.0	15.0	10.0	15.0	6.0	10.0
01	20	04/24/01	KH	RL, KP	17.0	19.5	4.10	5.10	23.15	22.10	48.61	63.07	7.4	7.1	20	0	95.0	20.0	95.0	20.0	15.0	24.0
01	20	05/25/01	KH	RL	13.0	19.0	10.00	8.10	28.80	28.30	113.23	103.03	7.4	7.6	*	*	75.0	20.0	75.0	20.0	13.5	16.0
01	20	06/21/01	KH	KP, SM, RL	18.0	19.0	2.90	5.00	25.90	26.90	35.66	63.05	7.1	7.6	0	700	22.0	25.0	22.0	25.0	19.0	15.0
01	20	07/23/01	KP, RL	RL, SM	23.5	25.0	6.00	7.50	28.90	29.00	83.16	106.78	7.8	7.6			33.0	40.0	33.0	40.0	25.0	30.0
01	20	08/20/01	RL, KP	RL, KP	22.0	22.0	5.70	7.40	30.40	30.80	77.62	101.02	7.8	7.8	1500	160	30.0	70.0	30.0	70.0	20.5	22.0
01	20	09/18/01	BH, MS	KH	19.0	17.0	8.80	7.20	31.20	31.25	113.97	89.78	7.7	7.8	200	60	65.0	20.0	65.0	20.0	21.0	14.5
01	20	10/17/01	KH	KH	13.0	14.0	6.40	8.60	29.15	28.85	72.63	99.45	7.4	7.8	>600	530	20.0	30.0	20.0	30.0	17.0	12.5
01	20	11/01/01	KH	JH, CH	9.0	10.0	6.40	8.70	30.65	32.05	67.29	94.41	7.6	7.8	30	0	10.0	25.0	10.0	25.0	14.0	12.0
02	20	04/29/02	KH, RL	RL, KP	8.0	7.0	9.45	10.00	25.80	25.90	94.00	97.24	8.0	8.0	50	70	30.0	30.0	30.0	30.0	3.0	5.0
02	20	05/28/02	KH	KL, KP	18.0	20.5	8.20	9.70	27.60	25.90	101.88	125.05	8.0	7.7	0	0	25.0	22.0	25.0	22.0	20.0	18.0
02	20	06/25/02	KP, SL	KH, KP	17.0	21.0	7.20	8.25	26.50	26.10	87.14	107.49	7.9	7.6	0	20	*	15.0	*	15.0	19.0	24.0
02	20	07/25/02	KP, JB	SM	17.5	22.0	6.10	7.10	31.40	30.20	76.87	96.57	7.7	7.5	*	0	17.0	34.0	17.0	34.0	18.0	25.0
02	20	08/26/02	RL, MS	MS, RL	23.0	25.0	6.20	8.40	31.40	31.50	86.48	121.40	7.4	7.6	0	4	40.0	40.0	40.0	40.0	25.0	26.0
02	20	09/23/02	KH	KH	21.0	24.0	7.30	7.20	18.10	20.00	90.75	95.61	7.8	7.9	>600	>600	15.0	15.0	15.0	15.0	21.0	25.0
02	20	10/22/02	KH	MS, RL	8.0	12.0	7.1	11.7	31.6	33.1	73.46	133.48	7.7	7.8	14	10	10.0	40.0	10.0	40.0	2.0	11.0
02	20	11/06/02	KP, RL	KH	7.0	9.0	8.8	8.4	21.5	28.9	83.09	87.27	7.8	7.7	20	18	15.0	70.0	15.0	70.0	7.0	9.0

Site 21 - Pleasant Ave.

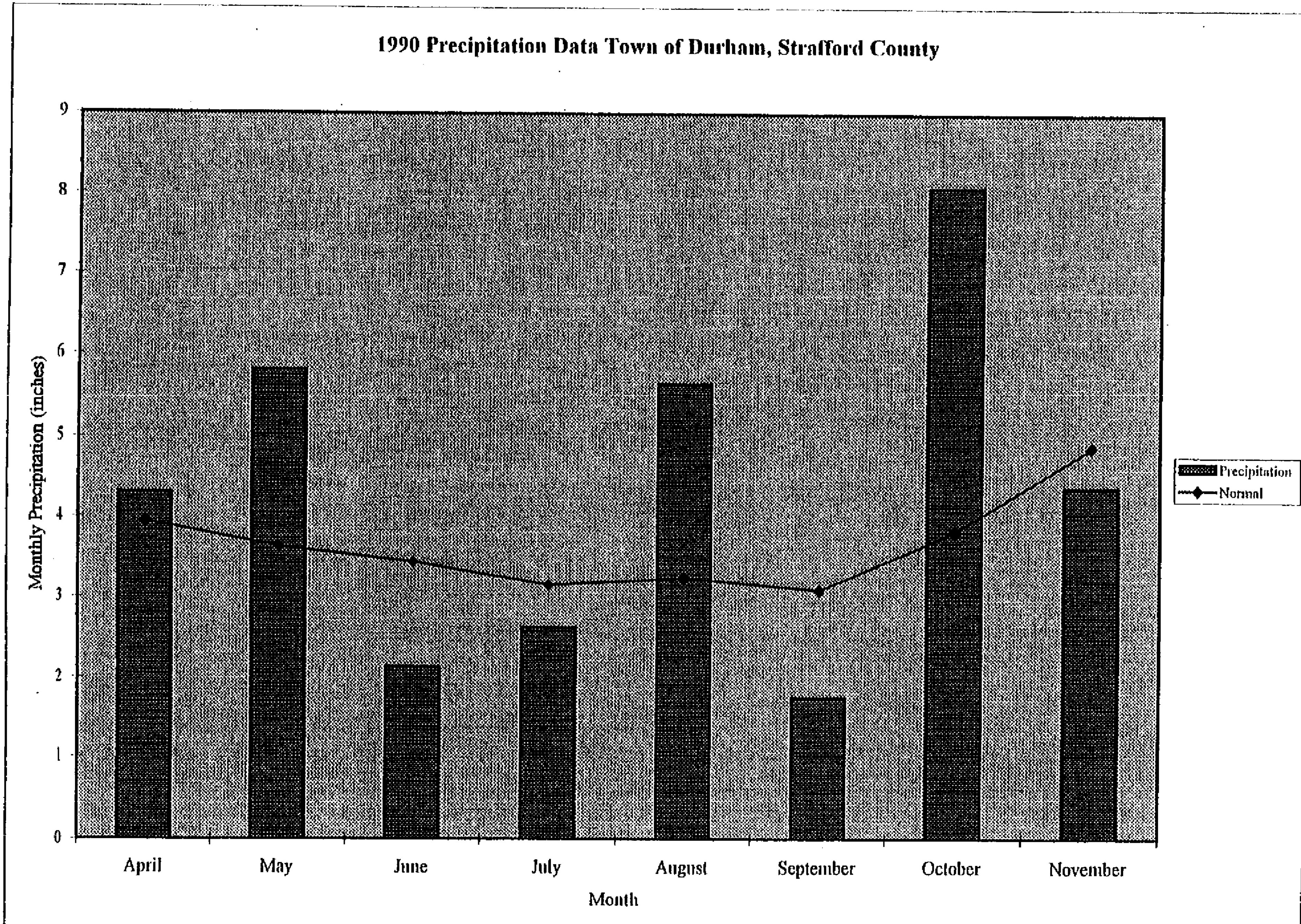
YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L	WTEMP-H	DO-L	DO-H	SAL-L	SAL-H	SAT-L	SAT-H	pH-L	pH-H	FECAL-L	FECAL-H	LP-L	LP-H	DEPTH-L	DEPTH-H	ATEMP-L	ATEMP-H
					°C	°C	ppm	ppm	ppt	ppt	%	%			CFU/100ml	CFU/100ml	cm	cm	cm	cm	°C	°C
97	21	04/23/97	PW, JR, DT	PW, LH, AN	6.5	15.0	5.90	4.90	4.75	14.20	49.60	52.87	7.2	7.1	TNTC	40	147.5	172.5	165.0	172.5	11.0	16.0
97	21	05/06/97	PW, AN	JR, DR	9.5	9.4	8.80	9.10	25.30	25.80	90.26	92.61	7.6	7.8	0		145.0	190.0	145.0	190.0	9.0	10.0
97	21	05/22/97	LH, AN	LW, SM	11.0	12.5	8.40	9.60	25.70	26.50	89.32	105.96	7.7	8.1	10	0	137.5	137.5	150.0	155.0	9.5	15.0
97	21	06/05/97	PW, AN, LH	LH, SM	14.0	14.0	8.60	8.90	28.80	29.35	99.42	103.26	7.9	7.9	*	*	195.0	160.0	195.0	160.0	10.0	16.0
97	21	06/23/97	DR, PW	DR, JR, SM	21.0	16.5	7.10	9.20	30.90	30.60	95.25	113.13	7.8	8.0	10	10	152.5	190.0	175.0	190.0	22.0	34.0
97	21	07/07/97	PW, AN	LH, SM	22.0	23.5	7.80	8.30	31.50	33.50	106.94	118.30	7.7	7.8	*	0	165.0	163.0	165.0	163.0	22.5	29.0
97	21	07/21/97	PW, JK	JR	19.0	17.5	7.70	8.90	30.10	29.20	99.04	110.60	7.9	8.1	0	0	185.0	155.0	185.0	170.0	19.0	19.0
97	21	08/04/97	PW, CH	LH, CH	21.0	20.0	6.50	8.10	31.20	31.50	87.36	107.08	7.6	7.8	6	*	165.0	157.5	165.0	160.0	19.0	21.0
97	21	08/19/97	PW, AN	LH, SM	18.0	16.5	6.65	8.10	31.25	31.45	84.54	100.14	7.8	7.8	90	0	145.0	170.0	145.0	170.0	15.5	25.0
97	21	09/03/97	PW, LH	LH	21.0	21.5	7.80	8.30	30.20	30.92	104.19	112.37	8.0	7.8	0	0	138.0	168.0	138.0	168.0	19.0	21.0
97	21	09/18/97	PW, AN	LH	18.0	18.0	6.80	8.20	31.90	32.20	86.80	104.87	7.6	7.8	*	*	145.0	220.0	145.0	220.0	16.0	27.0
97	21	10/02/97	*	LH	*	12.0	*	7.90	*	32.50	*	89.77	*	7.8	*	0		184.0		184.0		13.5
97	21	10/17/97	PW, AN	LH	11.0	13.0	7.20	8.70	33.45	32.75	80.61	101.11	7.6	7.8	70	10	180.0	225.0	180.0	225.0	5.0	16.0
97	21	11/03/97	PW, DR	LH	8.5	12.5	8.40	8.30	21.65	26.20	82.24	91.44	7.5	7.8	*	*	127.5	147.5	185.0	195.0	8.5	16.0
98	21	05/12/98	PW, DR	JR, BH	11.0	13.0	8.15	9.20	21.85	21.60	84.54	99.51	7.4	7.5	230	40	152.5	180.0	170.0	180.0	10.0	12.0
98	21	06/10/98	PW,ML	DR,JR	18.0	20.0	6.80	7.70	29.70	29.10	85.60	100.29	7.8	7.6	30	0	185.0	152.0	185.0	155.0	16.5	19.0
98	21	07/09/98	PW	DR,ML	21.0	25.0	6.60	7.30	23.30	24.00	84.57	100.95	8.0	7.7	20	0	190.0	63.0	190.0	63.0	18.0	24.0
98	21	08/10/98	JR	LH	23.0	23.5	8.00	8.40	30.90	30.30	111.25	117.41	7.7	8.0	10	10	175.0	77.5	180.0	170.0	24.0	31.0
98	21	09/09/98	PW,BH	BH, ML	16.0	15.0	7.20	7.80	31.30	31.30	88.07	93.53	7.6	7.5	80	240	150.0	235.0	150.0	235.0	16.0	16.0
98	21	10/07/98	PW, DR	ML, JR	11.0	12.0	8.35	8.80	31.40	31.70	92.19	99.46	7.9	7.7	20	10	140.0	210.0	140.0	210.0	9.0	12.0
98	21	11/05/98	PW,BH	ML,JR	6.0	9.0	9.05	8.90	29.50	30.50	88.10	93.48	7.8	7.4	10	0	190.0	180.0	190.0	180.0	1.0	9.0
99	21	04/29/99	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
99	21	05/17/99	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
99	21	06/15/99	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
99	21	07/13/99	PW, KK	BH, JR	16.5	16.0	4.70	9.60	32.25	31.30	58.41	117.43	7.6	7.4	200	100	40.5	170.0	40.5	170.0	17.0	20.0
99	21	08/12/99	ML, PW	DR, BH	16.0	19.0	6.20	7.80	31.60	32.55	75.98	101.89	7.4	7.3	100	0	50.0	200.0	50.0	200.0	20.5	25.0
99	21	09/13/99	DR,ML	DR,JR	21.0	24.0	13.80	15.30	22.85	27.20	176.36	211.80	7.8	7.7	0	10	85.0	117.5	140.0	150.0	18.0	22.0
99	21	10/12/99	KK,ML	KP,SM	12.0	13.0	7.70	9.00	29.75	30.80	85.90	103.25	7.4	7.4	0	0	137.0	50.0	137.0	50.0	9.0	14.0
99	21	11/09/99	KK,PW	DR	4.0	8.0	8.50	9.50	29.40	28.50	78.79	96.22	7.8	7.5	30	0	185.0	100.0	185.0	100.0	3.5	10.0
00	21	04/19/00	CH, DM, JH, DK	CH,DK,DM	7.0	7.0	8.00	10.90	26.95	28.90	78.35	108.18	7.5	7.7	130	0	40.0	130.0	40.0	130.0	5.0	6.0
00	21	05/18/00	CH, DM, DK	CH,DK,DM	15.0	17.0	8.20	8.20	27.20	26.50	95.77	99.24	7.9	7.7	0	0	150.0	180.0	150.0	180.0	15.0	22.5
00	21	06/19/00	CH, DM, DK	CH, DM	21.0	23.0	6.60	6.30	27.40	28.20	86.67	86.19	7.5	7.5	10	0	140.0	140.0	140.0	140.0	21.0	23.0
00	21	07/17/00	CH, DM, JM	CH, DM, JM	17.5	20.0	8.30	11.60	17.90	23.30	96.31	145.88	7.4	7.9	6000	1400	95.0	95.0	145.0	140.0	16.0	19.0
00	21	08/15/00	CH, JH	CH, JH	20.0	21.0	5.70	5.50	29.80	29.50	74.56	73.15	7.5	7.5	0	10	145.0	150.0	145.0	150.0	17.0	22.0
00	21	09/14/00	CH, DM	CH, DK	15.0	17.0	4.80	7.10	31.70	31.80	57.70	88.85	7.4	7.9	4400	0	20.0	175.0	20.0	175.0	14.0	22.0
00	21	10/16/00	DK, DM, CH	DK, DM	12.0	11.0	7.30	8.00	30.40	30.70	81.79	87.92	7.7	7.8	0	10	175.0	200.0	175.0	200.0	7.0	5.0
00	21	11/13/00	CH, DK	CH, DK	8.0	10.0	7.30	8.20	25.80	29.40	72.61	87.40	7.5	7.9	6000	50	140.0	175.0	140.0	175.0	5.0	10.0
01	21	04/24/01	CH, DM, DK	DM, CH, DK,	15.5	17.0	7.00	7.70	24.70	24.65	81.29	92.13	7.5	7.8	20	0	130.0	140.0	130.0	140.0	15.0	22.0
01	21	05/23/01	DM, DK	DK, DM,	11.5	12.5	7.40	8.90	29.00	29.45	81.27	100.14	7.8	8.0	30	0	65.0	120.0	65.0	120.0	13.0	17.0
01	21	06/21/01	CH, DK	DK, DM	17.0	16.0	6.20	8.00	28.30	28.85	75.88	96.33	7.8	7.9	190	500	150.0	135.0	150.0	135.0	18.0	19.0
01	21	07/23/01	JK, DK	JK, DK	21.0	24.0	6.70	7.20	30.40	30.80	89.60	101.83	7.5	8.0			140.0	147.5	140.0	147.5	23.5	32.0
01	21	08/20/01	DM, CH	CH, DM	19.0	19.0	7.50	7.60	31.40	31.20	97.26	98.43	7.8	7.9	50	10	180.0	190.0	180.0	190.0	20.0	25.0
01	21	09/18/01	DM, DK	DK, DM	15.0	16.5	7.90	8.30	32.40	32.40	95.41	103.25	7.6	8.0	20	10	165.0	210.0	165.0	210.0	14.0	24.0
01	21	10/17/01	DK, CH	CH, DK	13.5	13.0	6.70	8.50	29.45	32.55	76.98	98.65	7.7	7.8	>600	60	40.0	185.0	40.0	185.0	14.0	14.0
01	21	11/01/01	DK, CH	DK, DM	8.0	10.0	6.60	8.80	30.90	31.95	67.96	95.43	7.5	7.8	0	0	35.0	160.0	35.0	160.0	13.0	12.0
02	21	04/28/02	DW, EH, CH, CH	EH, CH, CH	6.5	7.5	9.00	9.10	27.65	28.40	87.52	91.05	7.6	7.7	30	0	200.0	165.0	200.0	165.0	3.5	6.0
02	21	05/28/02	CL, DW	DW, EH, CH	15.0	17.0	8.50	9.10	27.90	27.70	99.71	110.96	7.8	7.9			185.0	185.0	185.0	185.0	16.0	19.0
02	21	06/25/02	DW,EH,CH	EH, CH	15.5	15.0	5.80	7.70	27.30	28.70	68.46	90.79	7.5	7.5	30	0	20.0	185.0	20.0	185.0	18.0	24.0
02	21	07/25/02	EH, CH	CH, CH	16.0	19.0	6.10	8.10	30.85	31.20	74.40	104.91	7.4	7.6	2	0	170.0	170.0	*	*	20.0	24.0
02	21	08/26/02	EH, CH	CH, DW	20.0	21.5	6.30	7.60	31.60	32.50	83.34	103.90	7.5	7.6	0	0	190.0	190.0	190.0	190.0	24.0	26.5
02	21	09/23/02	CH, EH	EH, CH	20.0	18.5	7.20	7.70	26.60	31.40	92.36	98.91	7.5	7.5	0	36	180.0	200.0	180.0	200.0	21.0	24.0
02	21	10/22/02	EH, CH	EH, CH	6.0	12.0	7.0	7.2	30.0	30.4	68.38	80.67	7.6	7.6	100	0	32.0	195.0	32.0	195.0	-1.0	11.0
02	21	11/06/02	CH, EH	EH, CH	8.5	10.0	9.2	8.2	25.1	31.2	92.13	88.47	7.3	7.3	62	12	0.0	250.0	20.0	260.0	8.5	10.0

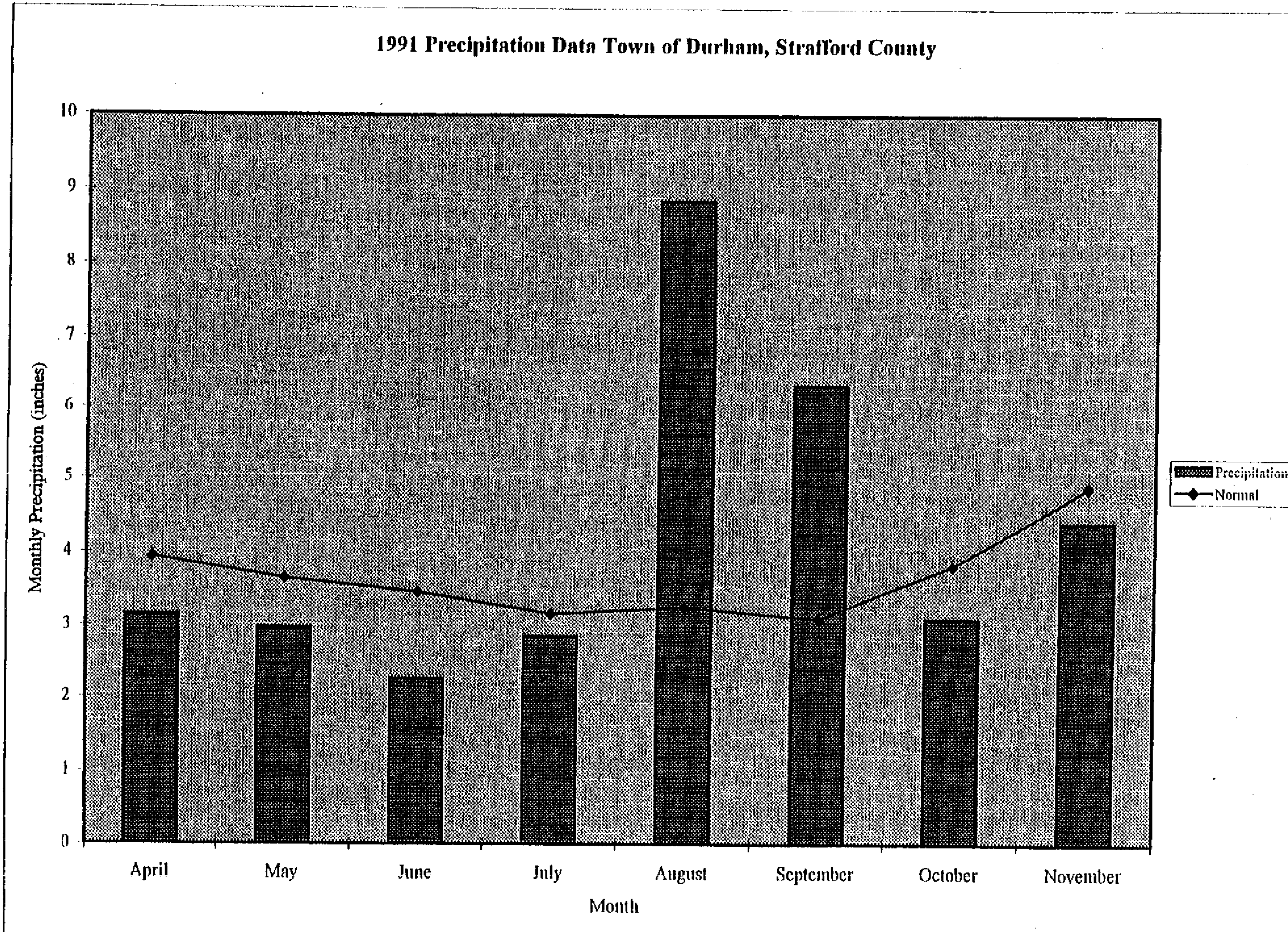
Site 22 - Little Harbor School

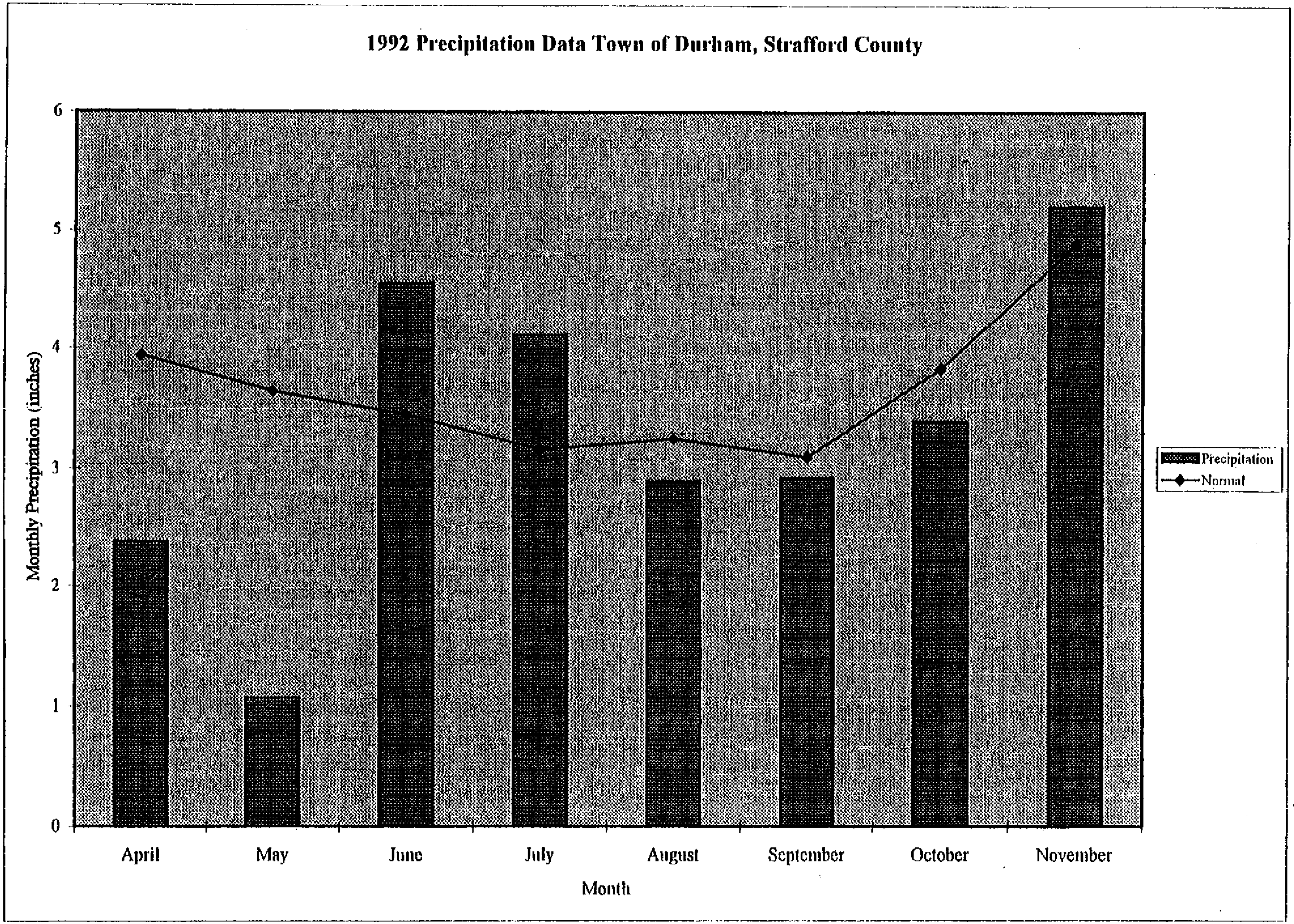
YEAR	SITE	DATE	SAMPLER-L	SAMPLER-H	WTEMP-L °C	WTEMP-H °C	DO-L ppm	DO-H ppm	SAL-L ppt	SAL-H ppt	SAT-L %	SAT-H %	pH-L	pH-H	FECAL-L CFU/100ml	FECAL-H CFU/100ml	LP-L cm	LP-H cm	DEPTH-L cm	DEPTH-H cm	ATEMP-L °C	ATEMP-H °C
98	22	9/9/98	*	ML,RB	*	16.5	*	8.40	*	31.60	*	103.95	*	7.8	*	*	*	130.0	*	130.0	*	18.5
98	22	10/7/98	*	ML,DS,FJ,DP	*	12.0	*	8.50	*	32.00	*	96.26	*	7.8	*	*	*	310.0	*	310.0	*	14.5
98	22	11/5/98	*	ML,RB,STUDENTS	*	8.0	*	7.25	*	30.20	*	74.29	*	7.6	*	*	*	225.0	*	225.0	*	11.0
99	22	04/29/99	*	MB, RB, BB, CB	*	10.0	*	11.10	*	27.70	*	116.98	*	8.3	*	0	*	148.0	*	148.0	*	12.0
99	22	05/17/99	*	DD, EC, MB	*	17.0	*	8.40	*	29.00	*	103.26	*	7.9	*	*	*	270.0	*	270.0	*	15.0
99	22	06/15/99	*	DD, MB, BB, RB	*	20.0	*	7.50	*	30.40	*	98.47	*	7.8	*	0	*	140.0	*	140.0	*	33.0
99	22	07/13/99	*	CB, RB	*	18.0	*	8.10	*	31.45	*	103.10	*	7.6	*	10	*	150.0	*	150.0	*	22.0
99	22	08/12/99	*	BB	*	19.0	*	7.60	*	32.15	*	99.02	*	7.6	*	100	*	150.0	*	150.0	*	27.0
99	22	09/13/99	*	BB	*	20.0	*	6.20	*	30.40	*	81.41	*	7.8	*	0	*	160.0	*	160.0	*	23.0
99	22	10/12/99	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
99	22	11/09/99	*	PL	*	10.0	*	10.00	*	31.70	*	108.26	*	7.1	*	10	*	200.0	*	200.0	*	11.0
00	22	04/19/00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
00	22	05/18/00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
00	22	06/19/00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
00	22	07/17/00	*	CH, DM, JM	*	20.0	*	7.90	*	28.50	*	102.52	*	7.5	*	10	*	95.0	*	95.0	*	21.0
00	22	08/15/00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
00	22	09/14/00	*	TL, BB, CLASS	*	23.0	*	7.50	*	*	*	*	*	7.7	*	0	*	115.0	*	115.0	*	22.0
00	22	10/16/00	*	BB, TL, CLASS	*	11.0	*	8.40	*	*	*	*	*	7.7	*	0	*	200.0	*	200.0	*	2.0
00	22	11/13/00	*	BB, TL, CLASS	*	11.0	*	8.10	*	23.00	*	84.64	*	7.7	*	10	*	105.0	*	210.0	*	9.0
01	22	04/24/01	*	TL, RB	*	14.0	*	10.30	*	21.70	*	113.86	*	7.6	*	0	*	180.0	*	180.0	*	25.0
01	22	05/23/01	*	TL, S	*	15.0	*	10.60	*	29.15	*	125.35	*	7.8	*	0	*	150.0	*	150.0	*	20.0
01	22	06/21/01	*	TL, RB	*	17.0	*	10.80	*	27.70	*	131.68	*	7.5	*	30	*	180.0	*	180.0	*	17.0
01	22	07/23/01	*	TL, CL	*	25.0	*	10.20	*	31.50	*	147.41	*	7.7	*		*	165.0	*	165.0	*	31.0
01	22	08/20/01	*	PL, CL	*	21.5	*	7.10	*	32.20	*	96.88	*	7.7	*	10	*	155.0	*	155.0	*	22.0
01	22	09/18/01	*	BB, TL, MM, MM, SB, SA	*	18.0	*	6.00	*	32.55	*	76.91	*	7.6	*	0	*	200.0	*	200.0	*	23.0
01	22	10/17/01	*	PL, BB, SB, RD, MR, JG	*	14.0	*	8.00	*	32.80	*	94.94	*	7.6	*	10	*	205.0	*	205.0	*	12.0
01	22	11/01/01	*	WN, SB, PM, DM, NL, GM, TL, BB, KB	*	10.0	*	8.30	*	34.75	*	91.76	*	7.4	*	0	*	160.0	*	160.0	*	10.0
02	22	04/29/02	*	PL	*	8.0	*	11.70	*	29.15	*	119.03	*	7.6	*	0	*	175.0	*	175.0	*	6.0
02	22	05/28/02	*	PL, HM	*	16.0	*	9.20	*	32.60	*	113.48	*	7.4	*	0	*	155.0	*	155.0	*	20.0
02	22	06/25/02	*	TL, CL	*	18.0	*	9.30	*	26.60	*	114.84	*	7.5	*	0	*	155.0	*	155.0	*	24.0
02	22	07/25/02	*	BB, JB, KB, SB	*	20.0	*	8.80	*	31.20	*	116.12	*	7.8	*	0	*	140.0	*	140.0	*	20.0
02	22	08/26/02	*	PL	*	22.5	*	9.50	*	34.00	*	133.45	*	7.5	*	1	*	150.0	*	150.0	*	26.5
02	22	09/23/02	*	JV, HM, JB, BB, CD	*	20.0	*	7.20	*	34.50	*	97.00	*	7.5	*	TNTC	*	165.0	*	165.0	*	26.0
02	22	10/22/02	*	PL, Students	*	12.0	*	10.3	*	35.6	*	119.53	*	7.4	*	0	*	145.0	*	145.0	*	18.0
02	22	11/06/02	*	TL, MB, AF, HM	*	14.0	*	11.1	*	32.1	*	131.12	*	7.3	*	7	*	180.0	*	180.0	*	10.0

Appendix II

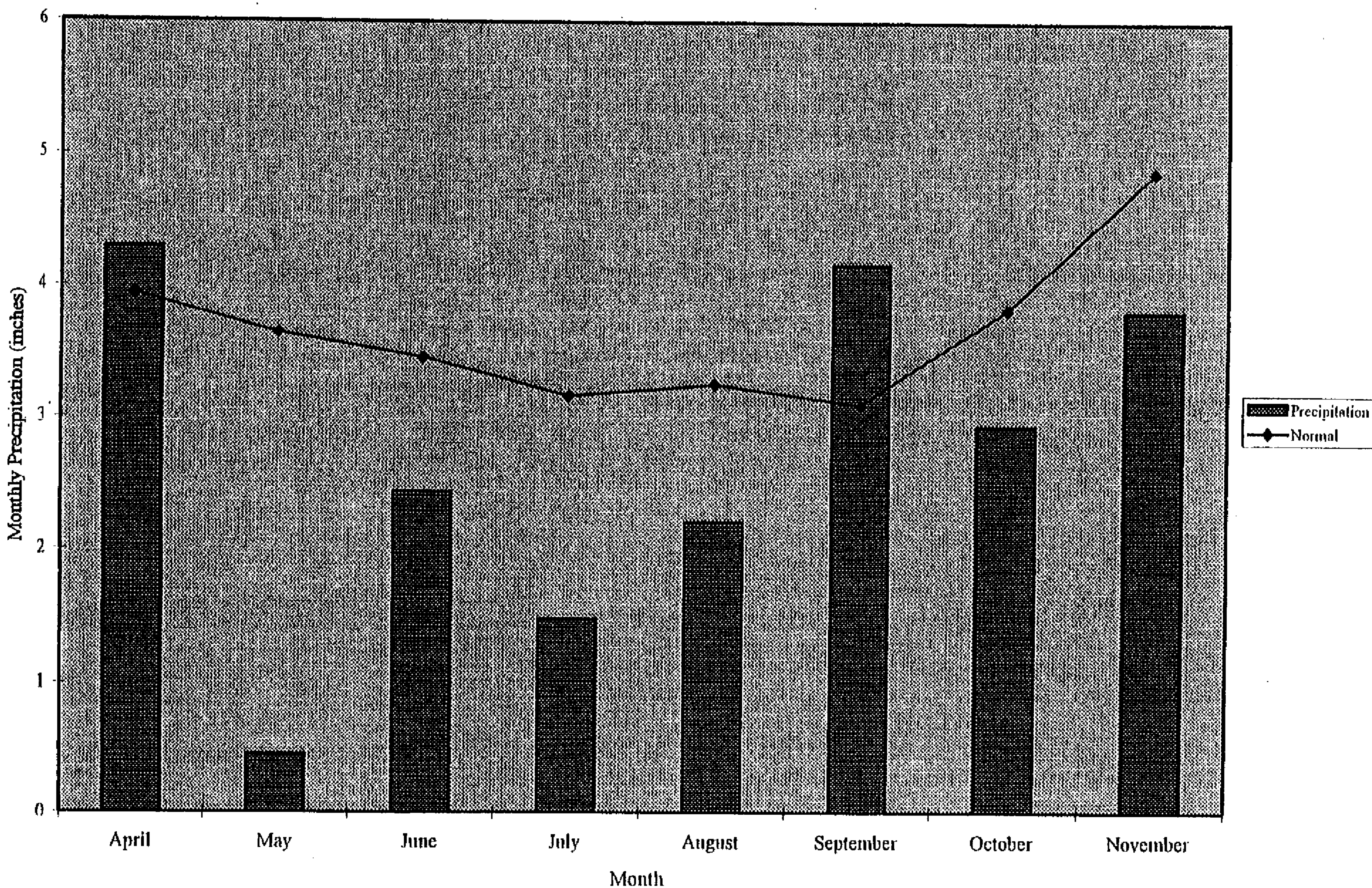
Graphs of Monthly precipitation 1990-2002

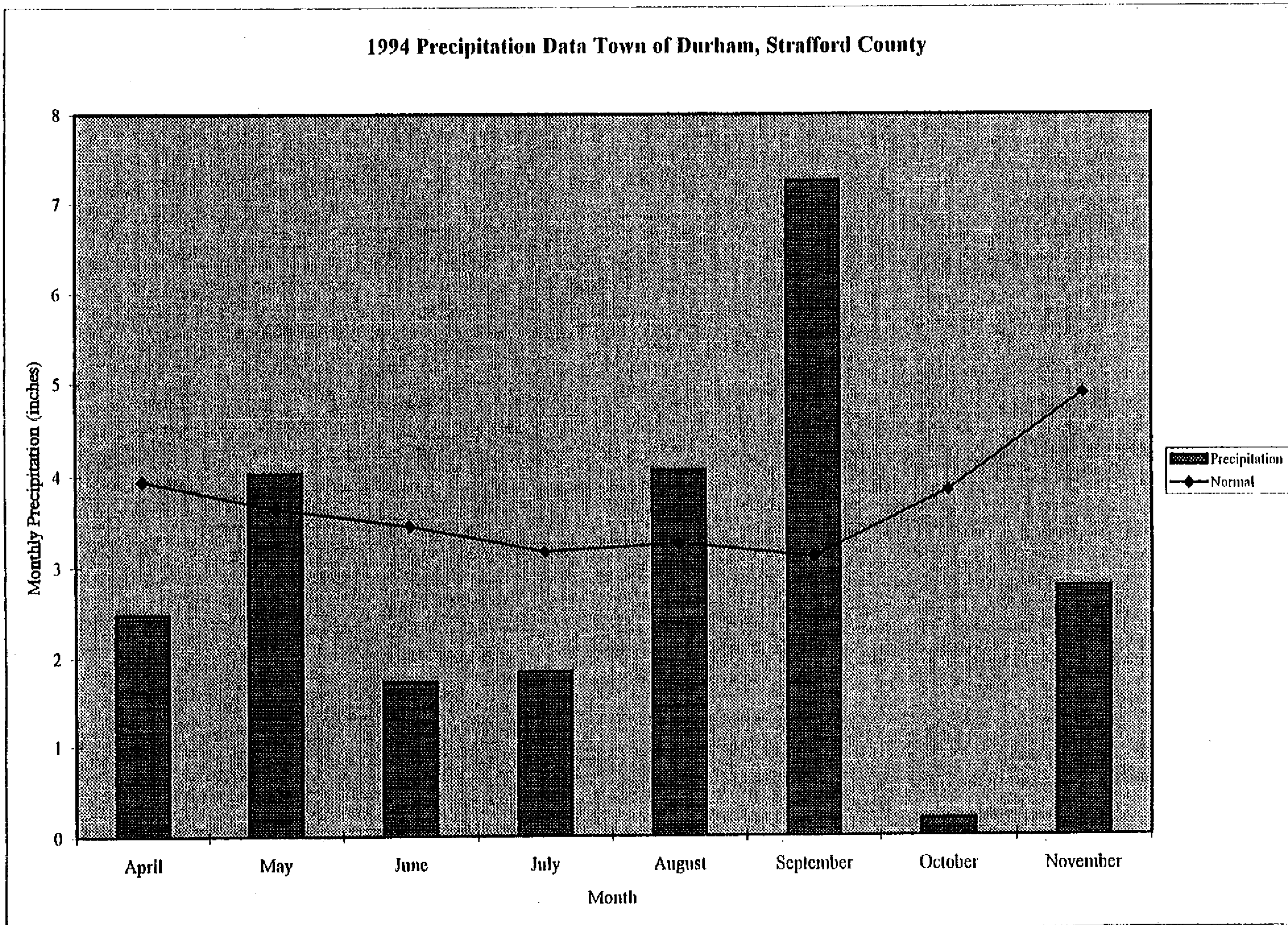

1990 Precipitation Data Town of Durham, Strafford County
Monthly Precipitation (inches)
0
1
2
3
4
5
6
7
8
9
April
May
June
July
August
September
October
November
Month
Precipitation
Normal


1991 Precipitation Data Town of Durham, Strafford County
Monthly Precipitation (inches)
10
9
8
7
6
5
4
3
2
1
0
April
May
June
July
August
September
October
November
Month
Precipitation
Normal

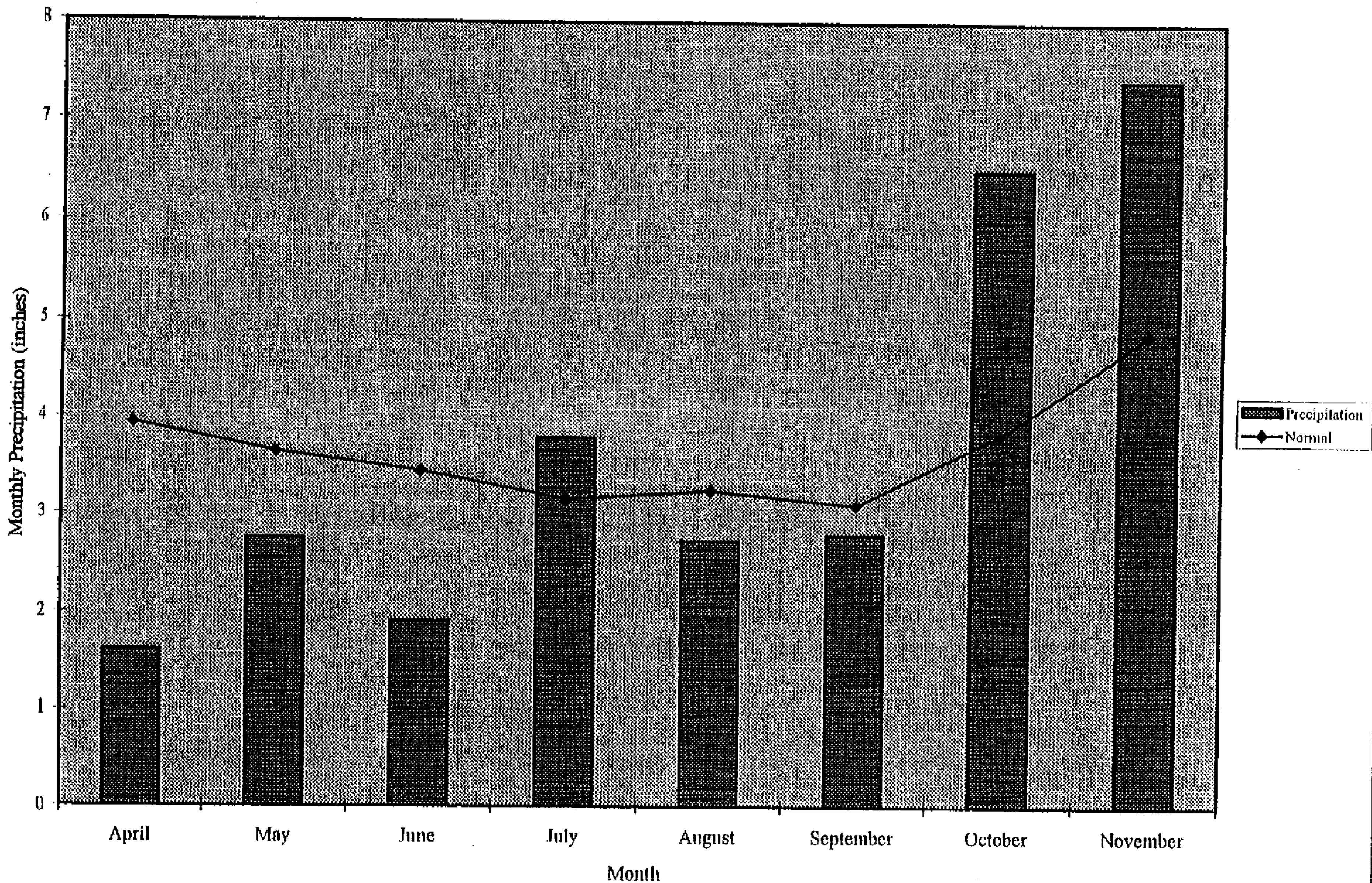

1992 Precipitation Data Town of Durham, Strafford County
Monthly Precipitation (inches)
6
5
4
3
2
1
0
April
May
June
July
August
September
October
November
Month
Precipitation
Normal

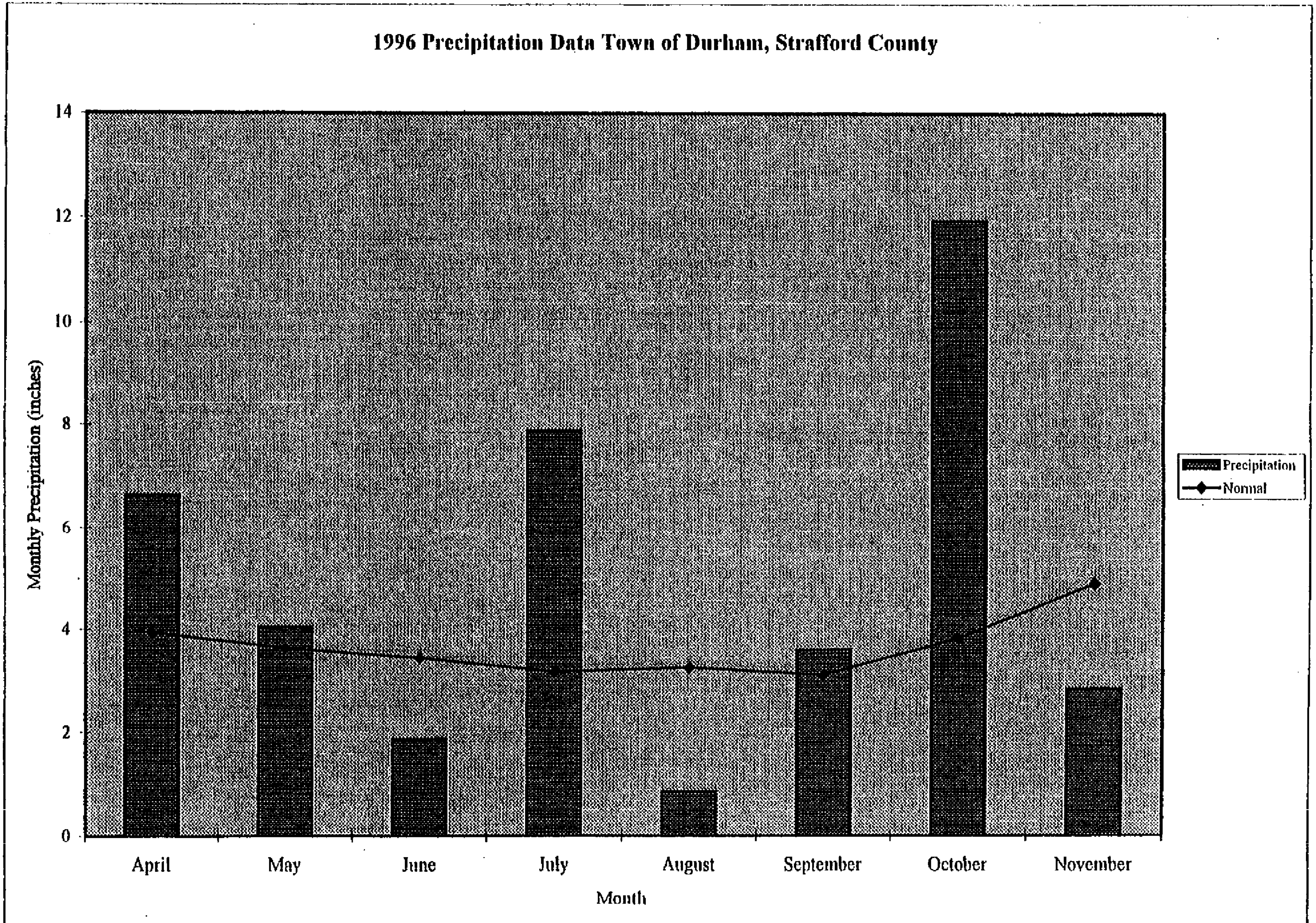
1993 Precipitation Data Town of Durham, Strafford County

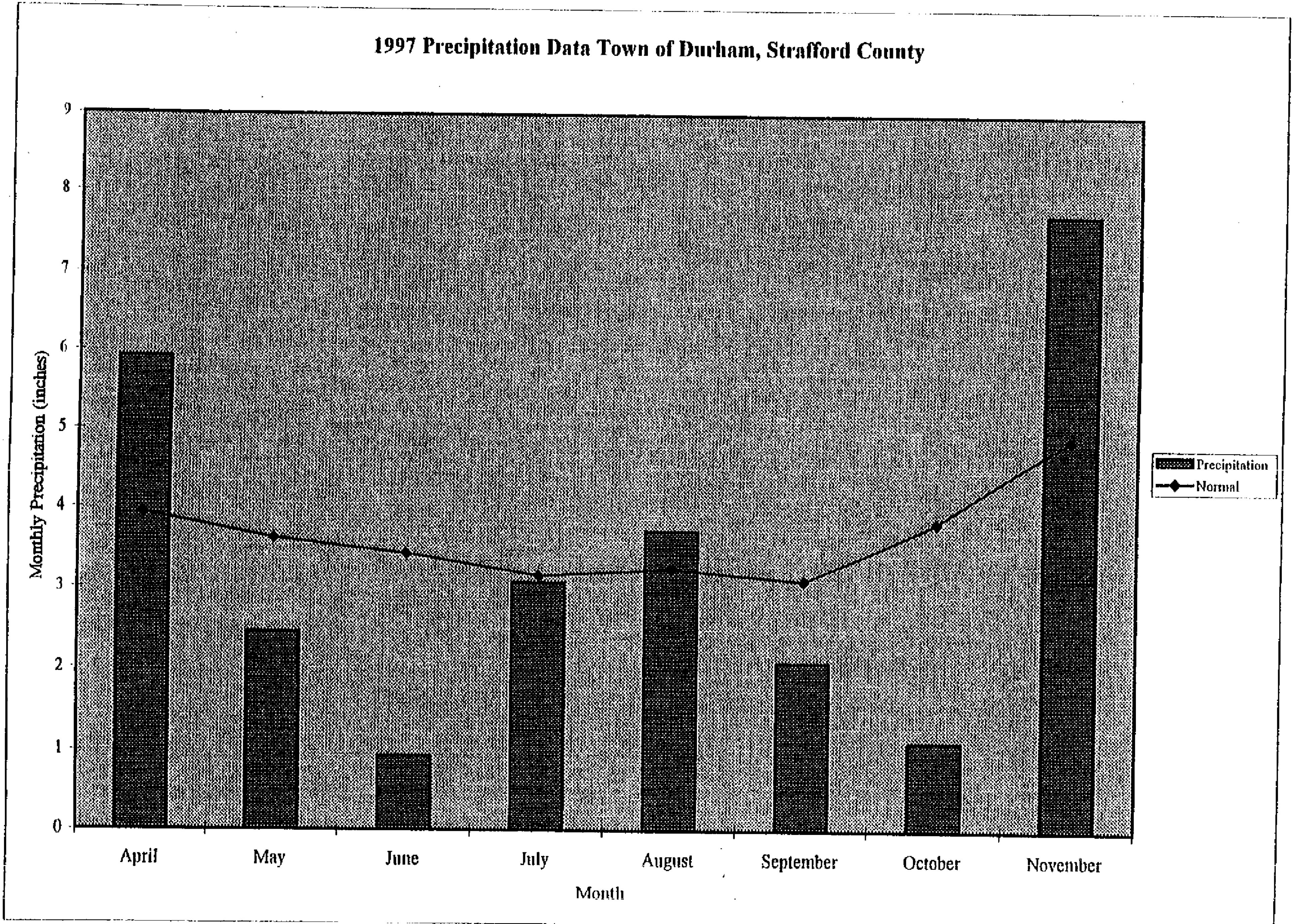


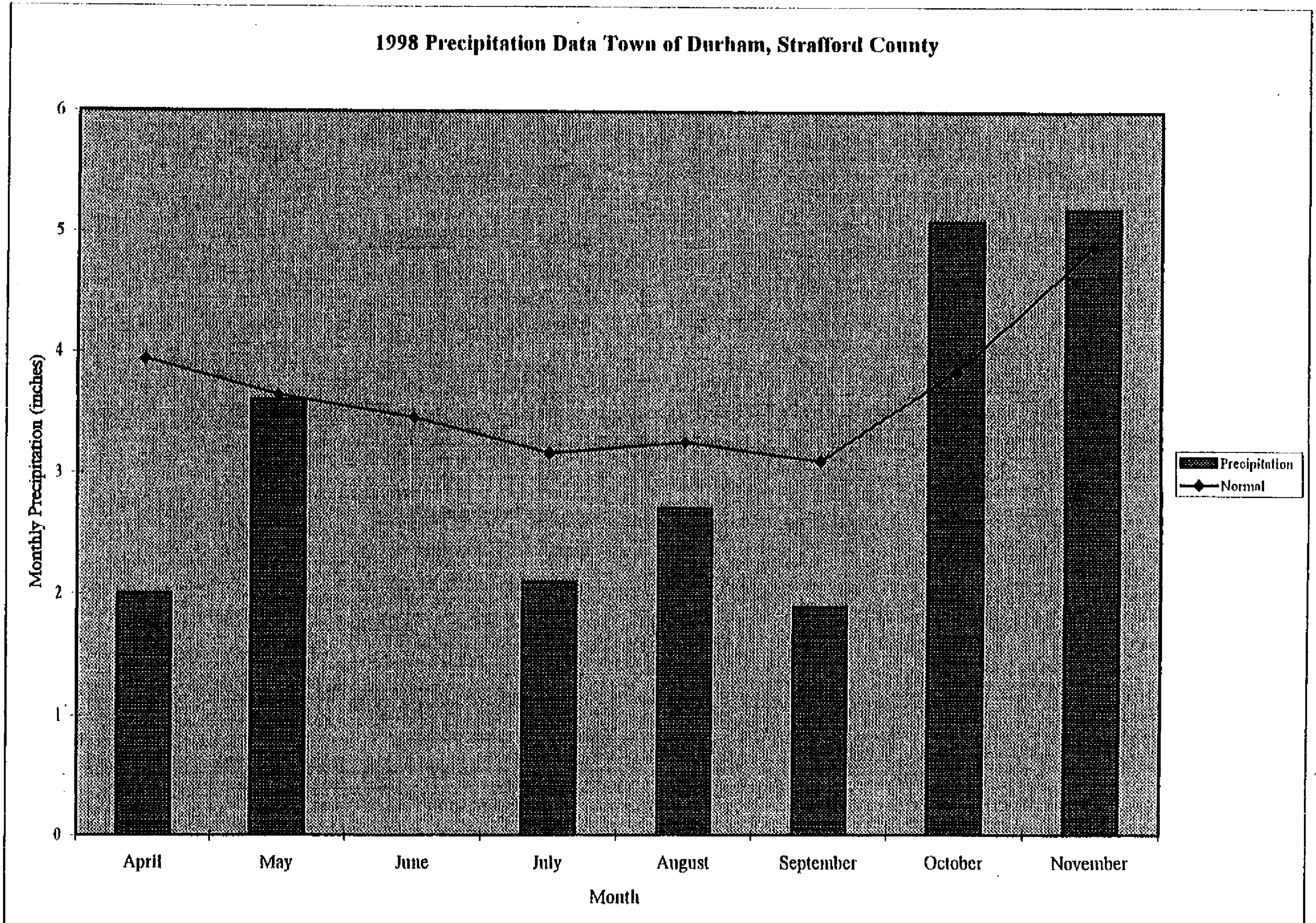

1994 Precipitation Data Town of Durham, Strafford County
Monthly Precipitation (inches)
8
7
6
5
4
3
2
1
0
April
May
June
July
August
September
October
November
Month
Precipitation
Normal

1995 Precipitation Data Town of Durham, Strafford County

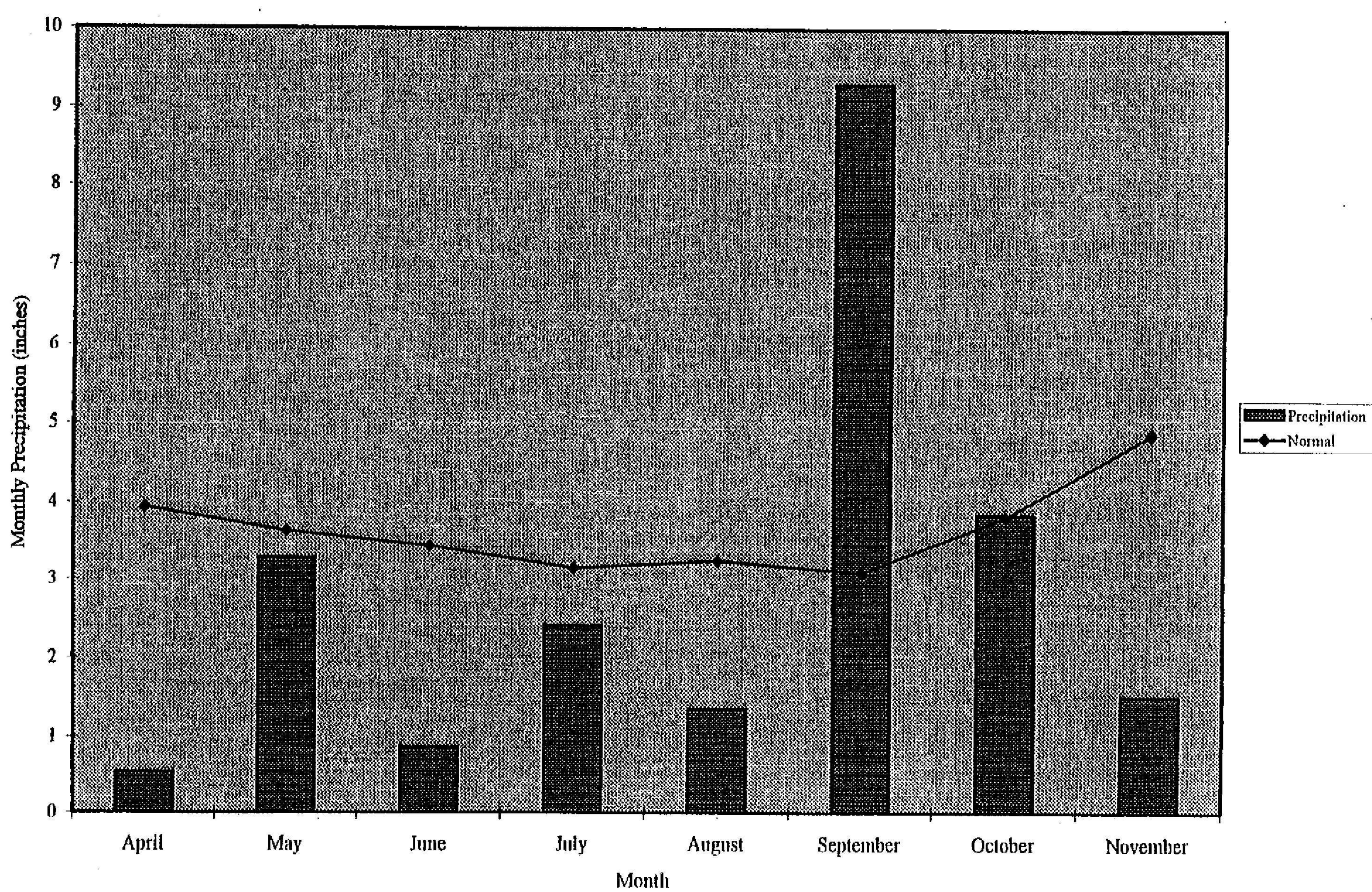


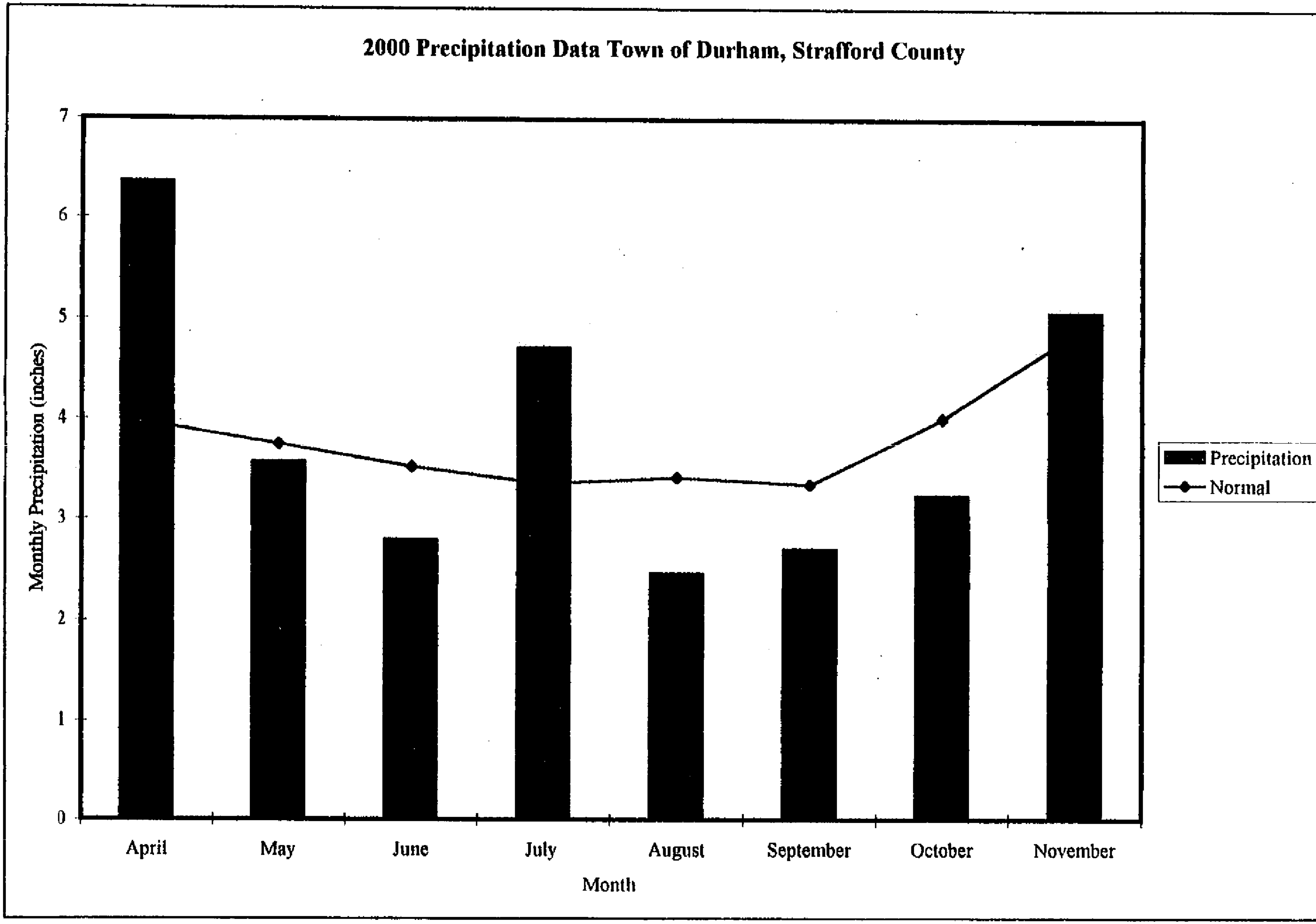

1996 Precipitation Data Town of Durham, Strafford County
Monthly Precipitation (inches)
14
12
10
8
6
4
2
0
April
May
June
July
August
September
October
November
Month
Precipitation
Normal

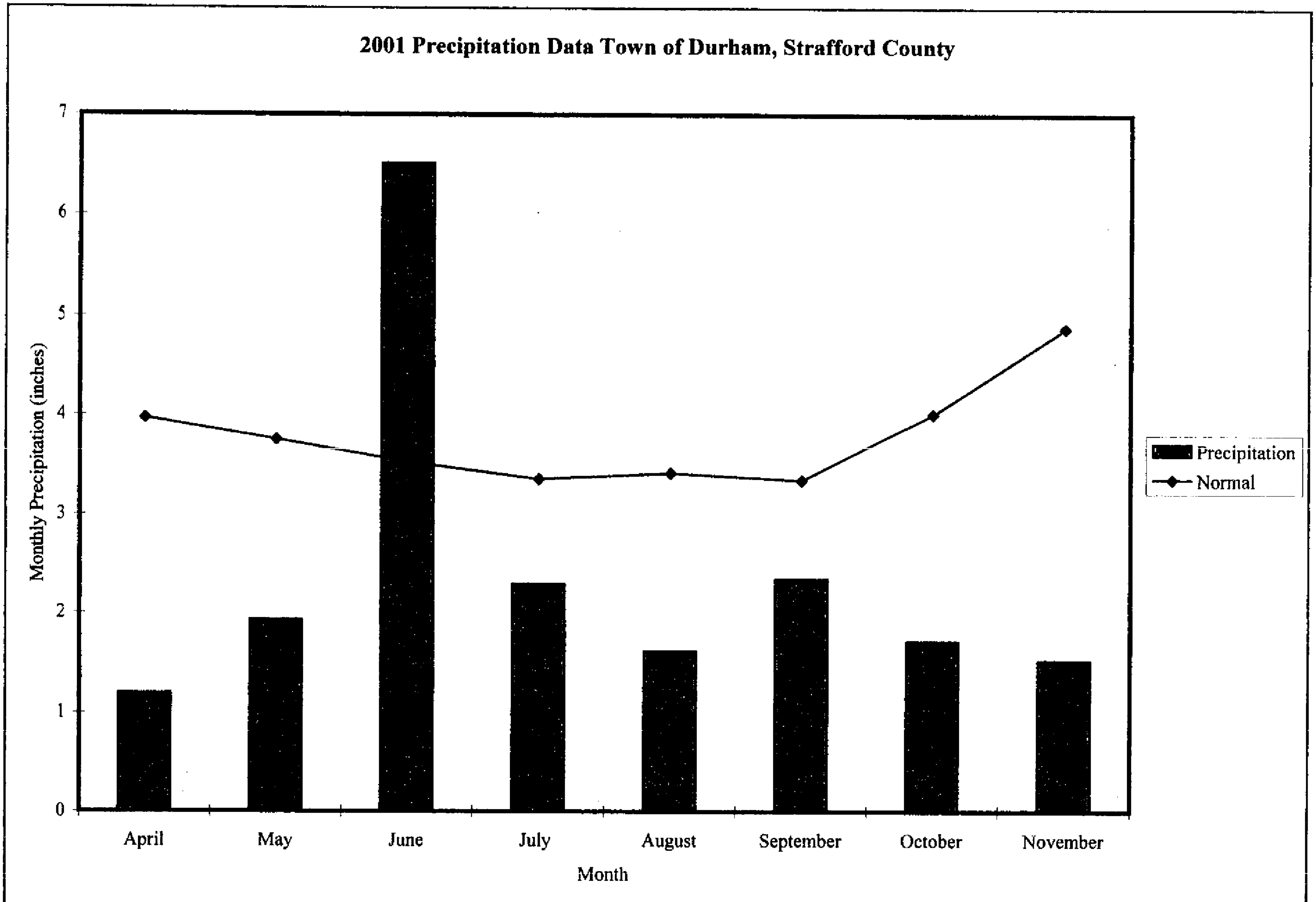

1997 Precipitation Data Town of Durham, Strafford County
Monthly Precipitation (inches)
0
1
2
3
4
5
6
7
8
9
April
May
June
July
August
September
October
November
Month
Precipitation
Normal

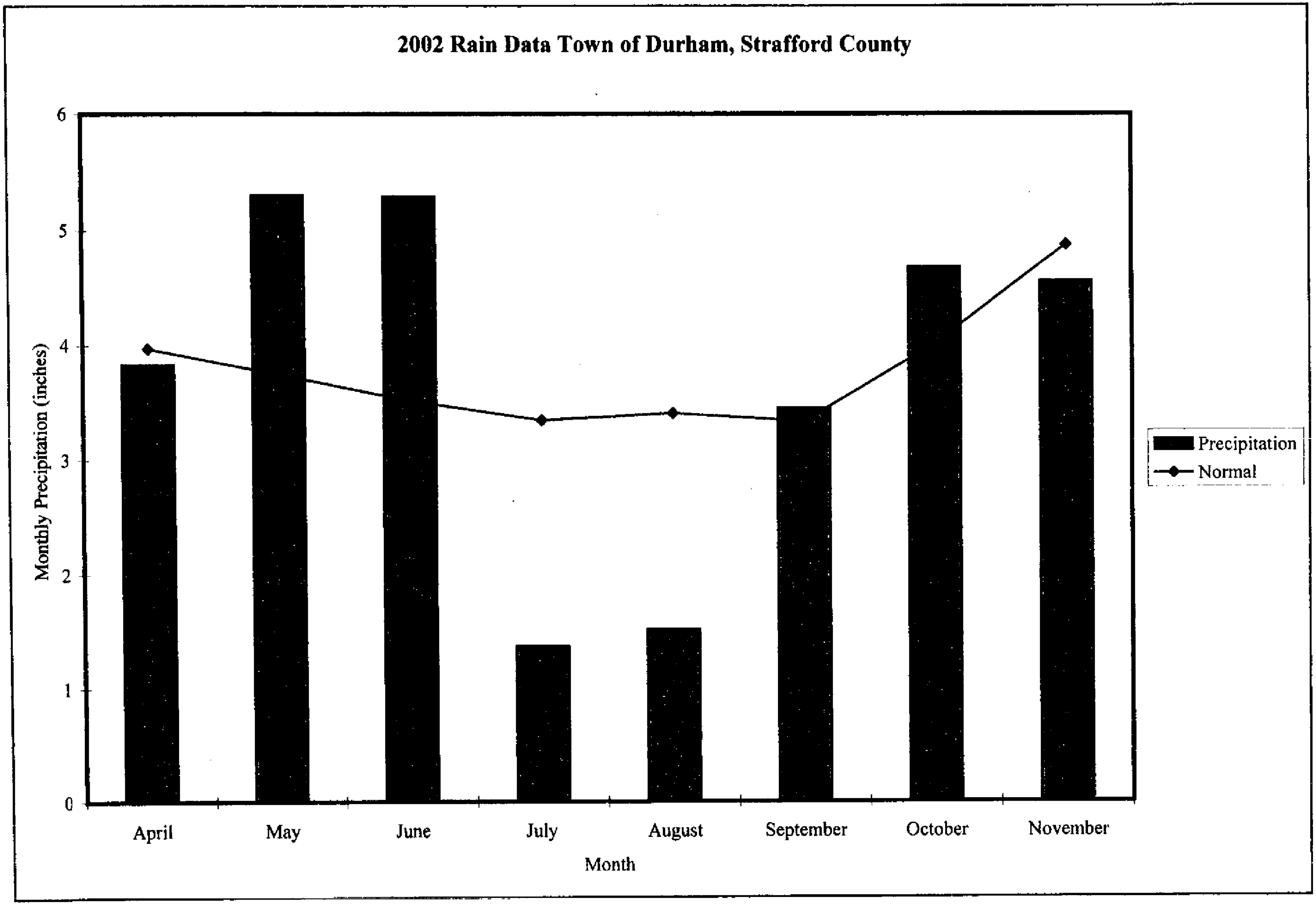

1998 Precipitation Data Town of Durham, Strafford County
Monthly Precipitation (inches)
0
1
2
3
4
5
6
April
May
June
July
August
September
October
November
Month
Precipitation
Normal

1999 Precipitation Data Town of Durham, Strafford County




2000 Precipitation Data Town of Durham, Strafford County
Monthly Precipitation (inches)
7
6
5
4
3
2
1
0
April
May
June
July
August
September
October
November
Month
Precipitation
Normal


2001 Precipitation Data Town of Durham, Strafford County
Monthly Precipitation (inches)
0
1
2
3
4
5
6
7
April
May
June
July
August
September
October
November
Month
Precipitation
Normal


2002 Rain Data Town of Durham, Strafford County
Monthly Precipitation (inches)
0
1
2
3
4
5
6
April
May
June
July
August
September
October
November
Month
Precipitation
Normal