



**Public Service  
of New Hampshire**

A Northeast Utilities Company

December 22, 2011

D30805

Mr. Harry Stewart, P.E.  
State of New Hampshire  
Department of Environmental Services  
Water Division  
29 Hazen Drive, P.O. Box 95  
Concord, N. H. 03301

PSNH Energy Park  
780 North Commercial Street, Manchester, NH 03101

Public Service Company of New Hampshire  
P.O. Box 330  
Manchester, NH 03105-0330  
(603) 634-2236  
Fax (603) 634-2213  
[macdojm@psnh.com](mailto:macdojm@psnh.com)

John M. MacDonald  
Vice President - Generation

Reference: NPDES Permit No. NH0001465, Merrimack Station,  
Public Service Company of New Hampshire, issued June 25, 1992  
and modified October 2, 1992.

Dear Mr. Stewart:

Merrimack Station  
Environmental Monitoring Program Annual Report

This correspondence is being provided to transmit Merrimack Station's dissolved oxygen, pH, and water temperature data in accordance with annual requirements of Merrimack Generating Station's NPDES permit.

Public Service Company of New Hampshire (PSNH), in accordance with section 6(a) and 7 of the referenced permit, submits the environmental monitoring program annual report for its, Merrimack Station. The report covers the period June 1, 2010 through May 31, 2011. It presents the data collected and explains outages that occurred and summaries of remedial actions taken to keep the systems in service.

If you have any questions, please contact Mr. Paul Basiliere, PSNH Generation Operations Services at (603) 634-2684.

Very Truly Yours,

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

---

John M. MacDonald, Vice President, Generation

Enclosure/ CC: w/Enclosure/ See Page 2

Mr. Harry Stewart, P.E.

December 22, 2011

D30805 / Page 2

CC: w/Enclosure

Mr. Thomas S. Burack, Commissioner  
Department of Environmental Services  
29 Hazen Drive  
Concord, N. H. 03301

Mr. Thomas J. Croteau, Environmental Inspector  
Department of Environmental Services  
Water Division - Dam Bureau  
29 Hazen Drive, P. O. Box 95  
Concord, N. H. 03301

Mr. Glenn Normadeau, Executive Director  
N. H. Fish and Game Department  
11 Hazen Drive  
Concord, N. H. 03301

U.S. Environmental Protection Agency  
NPDES Program Operations Section  
Water Technical Unit OES4-SMR  
5 Post Office Square- Suite 100  
Boston, MA. 02109-3912

Mr. John King (CPE)  
U.S. Environmental Protection Agency- Region I  
5 Post Office Square- Suite 100  
Boston, MA. 02109-3912

ANNUAL REPORT

2010-2011

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

MERRIMACK GENERATING STATION

ENVIRONMENTAL MONITORING PROGRAM

(NPDES PERMIT NO. NH0001465)

PSNH Merrimack Station 2010-2011  
Environmental River Monitoring Report  
NPDES Permit No. NH0001465

## TABLE OF CONTENTS

- I. EXECUTIVE SUMMARY
- II. GENERAL BACKGROUND
- III. SYSTEM DESCRIPTION
  - Figure I - Station Locations
- IV. MAINTENANCE PROGRAM
- V. ANNUAL SUMMARY
  - Table 1 - Summary of Monthly Average Data
  - Table 2 - Summary of Major Equipment Malfunctions
  - Table 3 - Summary of Station N-5 and S-0 pH Data
- VI. MONTHLY SUMMARY REPORTS

## I. EXECUTIVE SUMMARY

PSNH operates four (4) environmental monitoring stations. Two of the monitoring stations record seasonal river temperature only. These are N-10 and S-4, located north and south of the plant respectively. A monitoring station at the Unit #2 intake (N-5) records dissolved oxygen and pH of the incoming river water. Finally, a monitoring station at the out fall of the discharge canal (S-0) records dissolved oxygen, pH, and temperature.

The attached PSNH Merrimack Station Drawing No. D-10139 displays the continuous biological monitoring program station locations.

This report covers twelve (12) months of continuous monitoring of the above parameters at the four (4) monitoring stations. The report period is June 2010 through May 2011.

During the year, there were no major outages of ten days or longer.

Several data outages also occurred during the year, and were of lesser duration. A recurring cause of the data outages is electrical storm activity. Despite extensive protection, lightning strikes and subsequent voltage surges frequently burn out probe and circuit board components along with associated hardware. Table 2 will provide a complete listing of major equipment malfunctions with more detailed explanations.

Backup monitoring systems were used to collect substitute data whenever the installed equipment was out of service. Whenever possible, the minimum and maximum data points for temperature and pH were recovered for that day. The substitute data is provided by either backup equipment maintained by station personnel or by operators recording grab samples during routine rounds. When the stations are in service, the grab sample data is used to confirm the primary data readings. More specifics are provided in Section IV. Part D

Compliance with NPDES permit limits were maintained throughout the year. Table 1 will provide a summary of parameter average data on a monthly basis. The pH probe readings at Station S-0 were occasionally less than 6.5 SU due to naturally occurring conditions. Table 3 displays data for Station N-5 which verifies the pH of ambient waters.



## EXECUTIVE SUMMARY continued

On occasions, slight pH differentials beyond normal were recorded between monitoring stations. This was generally caused by probe fouling as explained in Table 3.

It is important to note that the record established by 34 years of ecological studies and environmental monitoring at Merrimack Station demonstrates that the cooling water discharge has not adversely impacted the community of aquatic life in the river. pH levels reflect ambient conditions and, along with temperature readings, closely track historical trends. Unaffected passageways below the thermal plume have been documented and shown to be sufficient for fish migration. A Technical Advisory Committee (TAC) consisting of regulatory agency personnel was formed during the year 1992 to review the Merrimack Station biological and hydrological programs. PSNH submitted a research report which summarized and analyzed the thermal effects of the cooling water discharge on the aquatic community. Field studies were conducted in 1994 and 1995 to further assess the affects on the anadromous fish migration season and on the indigenous fish populations. Reports were submitted to the TAC:

1. Merrimack Station Thermal Discharge Modeling Study.  
Normandeau Associates, Inc. October 1996.
2. Merrimack Station (Bow) Fisheries Study.  
Normandeau Associates, Inc. January 1997.

In more recent years, several additional studies have been submitted to investigate the effects of the cooling water intake and discharge in more detail, including:

1. Proposal for Information Collection to Address Compliance with the Clean Water Act §316(b) Phase II Regulations at Merrimack Station, Bow, New Hampshire. Normandeau Associates, Inc. April 2005.
2. Merrimack Station Thermal Discharge Effects on Downstream Salmon Smolt Migration. Normandeau Associates, Inc. December 2006.

## EXECUTIVE SUMMARY continued

3. A Probabalistic Thermal Model of Merrimack River Downstream of Merrimack Station. Normandeau Associates, Inc. April 2007.
4. Merrimack Station Fisheries Survey Analysis of 1967 through 2005 Catch and Habitat Data. Normandeau Associates, Inc. April 2007.
5. Entrainment and Impingement Studies Performed at Merrimack Generating Station from June 2005 through June 2007. Normandeau Associates, Inc. October 2007.
6. Response to the United States Environmental Protection Agency CWA §308 letter, PSNH Merrimack Stations Units #1 and #2, Bow, New Hampshire. Public Service of New Hampshire (PSNH), Enercon Services Inc. and Normandeau Associates. November 2007.
7. Biocharacteristics of Yellow Perch and White Sucker Populations in Hooksett Pool of the Merrimack River. Normandeau Associates, Inc. June 2009.
8. Biological Performance of Intake Screen Alternatives to Reduce Annual Impingement Mortality and Entrainment at Merrimack Station. Normandeau Associates, Inc. September 2009.
9. Supplemental Alternative Technology Evaluation, PSNH Merrimack Station Units #1 and #2, Bow, New Hampshire. Enercon Services, Inc. October 2009.
10. Supplemental Follow-up Report on the Biocharacteristics of Yellow Perch and White Sucker Populations in Hooksett Pool of the Merrimack River PSNH Merrimack Station. Normandeau Associates April 2010
11. Response to the United States Environmental Protection Agency Information Request for NPDES Permit Re-Issuance PSNH Merrimack Station Units 1&2 Bow, New Hampshire. Enercon Services, Inc. July 2010



## EXECUTIVE SUMMARY continued

The biological data from Merrimack Station's monitoring programs continue to indicate that no adverse environmental impact to the aquatic ecosystems of the Merrimack River in the vicinity of the station has occurred, as measured by any representative important species or critical aquatic organism population as a result of the Stations existing CWIS operation.

## II. GENERAL BACKGROUND

Normandeau Associates, Inc. conducted extensive ecological studies of Merrimack Station's impact on the river from 1972 through 1978. Continuous temperature monitoring has been a normal part of station operations for approximately 33 years. In June of 1979, EPA issued a revised NPDES permit which expanded the monitoring to include dissolved oxygen and pH parameters. A summary of the program's development follows:

<u>DATE</u>	<u>ACTIVITY</u>
6/80	The new D.O. and pH equipment is put into service. Environmental Engineers, Inc. (EEI), an affiliate of the Weston Group, is hired to coordinate the entire program.
9/81	The first annual report of the expanded program for 1980-1981 is submitted.
6/84	PSNH staff personnel assume responsibilities for the field portion of the program.
12/84	PSNH staff replaces EEI as the entire program coordinator.
8/86	The field maintenance and data collection portions of the program are delegated to Merrimack Station personnel.
6/87	Biological Monitoring Program system inexperience required the station responsibilities be remanded to PSNH staff. Station duties are reduced to daily basic equipment checks.

Equipment improvements have been regularly implemented to accelerate and upgrade the program. In October 1986, a new Beckman Dissolved Oxygen System was installed at Station S-0 to improve reliability and in June of 1987 an automated personal computer editing program was created to expedite data processing. In April of 1989, a new Beckman Dissolved Oxygen System was installed at Station N-5 to improve reliability. In March and April 1991, a new YSI temperature monitoring system was installed at stations N-10, S-0 and S-4 to improve reliability. In June of 1995 a new Great Lakes Instrument pH System was installed at N-5 and S-0 to improve reliability. In July 1998, new Campbell Scientific Data loggers were installed at all data collection stations to improve reliability. In conjunction with the new data loggers, a new Windows 95 based personal computer data editing program was created to expedite data processing. In April 2000 a new Rosemount Analytical Dissolved Oxygen system was installed at N-5 and S-0 to improve reliability.

A Windows 2000 software upgrade was required for the Campbell Scientific data loggers to make the data compatible with a Windows 2000 upgrade to the edit/ report program. In December 2000 the SO instrument control cable that connects the probes with the analyzers and data loggers suffered a slow and intermittent internal lead failure to the dissolved oxygen probe. It was not repairable. On short notice a new cable was ordered and obtained but only a shorter run was available. Consequently the SO enclosure was moved closer to the probes to accommodate the new cable and improve reliability. In June 2002 enhanced lightning protection devices were installed at all locations to improve reliability. In May 2003 new Scan Data radio systems were installed to try to improve response time for station acquisition of data. In November 2005 the S0 and N5 pH analyzers were replaced with an updated Great Lakes Model 53 pH analyzer. In November 2006 and March 2007 the pH systems at S0 and N5 were replaced with new Rosemount Analytical Solu Comp II pH analyzers and Models 3300HT and 399VP pH probes due to the lack of factory support for the Great Lakes Instruments pH system. In March 2008 a new Rosemount Analytical Model 5081 pH analyzer and a new Model 399-62 low ionic strength and low temperature pH probe was installed at N5 to improve reliability.

In July 2008, new Rosemount Model 1056 dual input (DO and pH) analyzers were installed at N5 and S0 to replace the Model 1054B analyzers due to lack of factory support. In December 2008 a new Rosemount Analytical Model 5081 pH Analyzer and a new Model 399-62 low ionic strength and low temperature pH probe was installed at S0 to improve reliability.

It is evident that the Monitoring Program is dynamic and has been modified frequently during its history. Many of the changes were associated with setbacks that hindered the reporting process. In particular, PSNH's assumption of the data processing function proved to be a tremendously time consuming task. An entirely new in-house computer system was required to collate the significant data base. These improvements have made it possible to submit the annual reports in a more timely manner.

### III. SYSTEM DESCRIPTION

#### A. General

The system consists of four monitoring stations located as shown in Figure 1. The parameters measured at each station are as follows:

FIGURE. 1  
PARAMETERS

<u>STATION</u>	<u>TEMP.</u>	<u>D.O.</u>	<u>pH</u>
N-10	X	N/A	N/A
N-5	N/A	X	X
S-0	X	X	X
S-4	X	N/A	N/A

Station N-5 pH and S-0 pH and temperature are kept operational all year. Stations N-10 and S-4 temperature probes are operational on a seasonal basis.

## B. Installed Equipment

### Stations N-10 & S-4

The temperature monitoring equipment at N-10 & S-4 consists of the following basic components:

- Logan Instruments shielded 250 foot cable (installed in river)
- Logan Instruments Platinum RTD sensor
- Wilkerson Instruments Control Module
- Scan- Data radio
- Scan- Data radio transmitter (R T)
- Campbell Scientific CR 10X data logger

With the exception of the temperature probes, all of the above equipment is installed within an equipment enclosure. The temperature probes, located near midstream, are deployed approximately 6" inches below the water surface of the river on buoys which are anchored to the bottom of the river.

The radio transmitter provides a signal to a Scan- Data base station which interfaces with an INVENSYS (Foxboro) IADCS Computer in the control room at the power station. The CR 10X data logger is used for data storage.

### Station N-5

The installed equipment at Station N-5 consists of the following basic components:

- Instrumental panel enclosure with the following equipment:
  - \* Rosemount Model 1056 D.O. analyzer (Duel Input)
  - \* Rosemount Analytical Model 5081 pH analyzer
  - \* Campbell Scientific CR 10X data logger

- Field Probes
  - \* Rosemount Model 499A D.O. probe
  - \* Rosemount Analytical Model 399-62 VP pH probe

The instrument panel enclosure is mounted in the screen house and the field probes are mounted in the north bay inlet adjacent to the traveling screens in Unit #2 intake structure. The probes are free floating and submerged approximately 6-inches below the water surface in the north bay inlet. During Unit #2 annual outages or extended unit outages the probes are relocated to the front railing of the intake structure to monitor ambient pH and D. O. river conditions and intercept river flow. The CR 10X data logger is used for data storage.

#### Station S-0

The installed equipment at Station S-0 consists of the following basic components:

- S-O instrument panel enclosure
  - \* Scan- Data radio
  - \* Scan- Data radio transmitter (R T)
  - \* Rosemount Model 1056 D.O. analyzer (Duel Input)
  - \* Rosemount Analytical Model 5081 pH analyzer
  - \* Campbell Scientific CR 10X data logger
  - \* Wilkerson Instruments Control Module
- Field probes
  - \* Rosemount Model 499A D.O. probe
  - \* Rosemount Analytical Model 3300 HT pH probe (summer operation)
  - \* Rosemount Analytical Model 399-62 VP pH probe (winter operation)
  - \* Logan Instruments Platinum RTD temperature probe

With the exception of the field probes, all of the above equipment is housed within a heated and ventilated enclosure. The field probes are mounted on the railing of a floating bridge located near the end of the cooling water discharge canal. The probes are positioned in the middle of the canal, 6-inches below the water surface. The CR 10X data logger is used for data storage.

#### IV. MAINTENANCE PROGRAM

##### A. General

The system maintenance program consists of weekly and monthly preventive maintenance. The weekly program consists primarily of cleaning and inspecting all onshore equipment and instruments. Every month, or more frequently if required, the instruments are calibrated and a boat is used to inspect, clean, and if required replace the RTD probe river installations.

##### B. Weekly Maintenance Program

During the weekly site visit, the following procedures are completed:

- Station N-5:
  1. Inspect D.O. probe. Clean probe. Check to insure the probe is approximately 6" below the water surface.
  2. Inspect pH probe. Clean electrodes. Check to insure the probe is approximately 6" below the water surface. Check % slope output on the pH probe.
  3. Check battery voltage reading of the CR 10X data logger. If battery voltage is below 12.0V, replace gel battery power supply according to manufacturer's manual.
  4. Check data logger outputs for D.O. and pH against instrument readings. If data logger output and instrument readings do not agree, refer to troubleshooting sections of manufacturer's manual.

### Station S-0:

1. Follow procedure 1-4 as listed above for Station N-5.
2. Clean temperature probe and check to insure the probe is approximately 6" below the surface of the water.
3. Using a precision thermometer, check and record the temperature of the water at the probe location. Check and compare with D.O. and pH probe temperature outputs.
4. Check the temperature output from the data logger. If the temperatures do not agree, perform an electronic calibration or refer to the troubleshooting sections of the manufacturer's manual.

- Stations N-10 & S-4:

Check the temperature outputs from the data loggers. If temperatures are out of range, perform an electronic calibration or refer to troubleshooting procedures in the manufacturer's manual.

- All Stations:

1. Check all data for accuracy and consistencies.
2. Replace components or instruments as needed.

### C. Monthly Maintenance Program

During the monthly site visit, the following procedures are completed:

- Stations N-10 & S-4:

1. Using the boat, go out to the buoy at each station, clean buoy and probe of debris and check to insure the probe is approximately 6" below the surface of the water.
2. Using a precision thermometer, check and record the temperature of the water where the probe is located.

3. Check the temperature output from the data logger. If the temperatures do not agree, refer to troubleshooting sections of the manufacturer's manual.

- Stations N-5 & S-0

1. Check calibration of the D.O. and pH probes according to the manufacturer's manual and the project SOP manual.

- All Stations

1. Check all data for accuracy and consistency.
2. Replace components or instruments as needed.

D. Discussion

A number of equipment repair and replacement problems occurred with the monitoring program during the reporting period which resulted in a corresponding number of data outages. Table 2 lists the major equipment malfunctions and the associated remedial actions. Additionally, the system suffered numerous short-lived data outages due to A. C. power interruptions, and unknown causes. In most cases, these minor outages went undetected and the system repaired itself without further service.

Auxiliary sources of data were enlisted to maintain monitoring program continuity during most extended data outages. Installed backup temperature monitoring equipment on the unit condensers is utilized to recover ambient river water temperatures when N-10 station is out of service. A Dissolved Oxygen Titration Kit and a bench calibrated portable pH meter are utilized by maintenance personnel on a weekly basis to supplement the data base. This grab sample data has been incorporated into the continuous monitoring data and is reflected in the monthly summaries.

PSNH makes a concerted effort to maintain equipment availability. The general nature of operating field equipment, however, makes this a difficult task.



Occasionally analytical equipment vendors have discontinued manufacturing replacement parts and or factory service for in-service units. Repairs for these units is sometimes more troublesome.

When justified, PSNH has replaced entire instruments to maintain the program integrity. As mentioned elsewhere, much attention has also been given to upgrade and improve the computer data processing function which helps audit equipment performance. In general, data retrieval from the program has been good.

TABLE 1. SUMMARY OF MONTHLY AVERAGE DATA

ANNUAL REPORT

PUBLIC SERVICE OF COMPANY NEW HAMPSHIRE

MERRIMACK GENERATING STATION

ENVIRONMENTAL MONITORING PROGRAM

	<u>Month</u>	<u>N-10</u> <u>Temp.</u>	<u>N-5</u> <u>D.O.</u>	<u>pH</u>	<u>S-0</u> <u>Temp.</u>	<u>D.O.</u>	<u>pH</u>	<u>S-4</u> <u>Temp.</u>
First Quarter	June	22.4	7.96	6.93	31.0	6.3	7.0	26.1
	July	26.6	7.24	7.02	35.7	6.1	7.1	31.3
	August	24.9	7.30	7.03	33.7	6.2	7.2	29.7
Second Quarter	Sept	21.4	8.44	7.16	29.5	6.8	7.3	25.5
	Oct	12.1	10.12	6.92	15.6	8.9	6.9	12.3
	Nov	6.4	11.04	6.8	15.3	9.2	6.8	7.4
Third Quarter	Dec	4.0	12.46	6.56	18.5	8.7	6.8	7.2
	Jan	NA	NA	6.62	15.9	NA	6.9	NA
	Feb	NA	NA	6.70	17.4	NA	6.9	NA
Fourth Quarter	March	NA	NA	6.73	18.4	NA	6.8	NA
	April	7.4	14.27	6.76	16.6	8.7	6.8	8.7
	May	14.1	12.34	6.68	18.7	8.2	6.8	14.9

prb/ 2011 MKbiomon.doc

Temperature Units = Degrees Centigrade  
 Dissolved Oxygen Units - mg/liter  
 pH units - Standard Units  
 NA - Station not in service during winter months

TABLE 2. SUMMARY OF MAJOR EQUIPMENT MALFUNCTIONS

<u>DATE</u>	<u>STATION</u>	<u>PARAMETERS</u>	<u>CAUSE/REMEDIAL ACTIONS</u>
6/6-6/8	S0	pH	A lightning strike caused pH isolation loop protection damage and pH analyzer failure. Replaced with backup units and calibrated.
6/28-6/29	S0	pH	New isolation devices installed on the pH loop to replace older devices previously damaged due to lightning strike.
7/5-7/6	S0	All	Unknown persons pulled the wire leads out from the Nema 4 box bus connection on the canal bridge. Police notified. Replaced leads to bus connections and calibrated.
7/19-7/20	N10	Temp.	AC Power outage due to line fault. No instrument damage. Powered up and placed in service.
7/19-7/22	S0	pH	5081 pH analyzer and loop protection fuses dropping out of service periodically due to AC surges which damage lightning protection fuses. Replaced fuses and restored power and ventilation as needed.
7/24-7/26	N5	pH	pH data analyzer program is corrupted and producing off scale data. Unknown cause. Reprogrammed, calibrated and placed in service.
8/11-8/13	N5	DO	Off scale data produced by failed internal RTD inside of the DO probe. New probe installed and calibrated.
8/19-8/20	N5	DO	Failed internal RTD in second DO probe. Replaced and calibrated. Unknown cause.
9/21	N5	All	AC power outage of short duration. Unknown cause. Instruments reset when AC restored.
10/2-10/4	N10	Temp.	High river flows dislodge the river anchor and the strain breaks the lead cable. Replaced on 10/4 with new RTD and calibrated.
10/10 & 10/19	N5	All	Short duration AC power outages due to breaker maintenance in the Unit #2 screen house. Reset and calibrated.

TABLE 2. SUMMARY OF MAJOR EQUIPMENT MALFUNCTIONS

10/27-10/29	N5	pH	pH probe RTD temperature read out is negative 2.4 degrees. Reprogrammed analyzer parameters and calibrated probe.
11/10-11/15	S0	pH	Protection loop fuse failure on 11/10. Holiday weekend prevented discovery until 11/15. Employed backup data and replaced fuse on 11/15. Upper fuse failed. Placed in service.
11/24-11/26	S0	pH	Protection loop fuse failure a second time. Lower fuse failure. Both upper and lower fuses have now been replaced. In service.
11/28	N5	All	AC Power outage required to relocate probes to the railing on the river due to an upcoming lengthy Unit #2 outage. In service.
2/22	S0	pH	Protection loop fuse failure due to an electrical surge. Replaced and placed in service.

PRB12/11 MKbiomon.doc

### TABLE 3. SUMMARY OF pH DATA

Throughout the year, pH values fell below the specified lower limit of 6.5 SU. These occurrences were caused by the natural reduction of the pH due to the ambient conditions of the Merrimack River. A monthly summary of the pH data is provided below. This data is not identical to the data reported on the monthly DMR because it is a quick visual scan of all monthly pH data recorded, at S-0 and N-5.

<u>MONTH</u>	<u>N-5 RANGE</u>	<u>S-0 RANGE</u>
JUNE	6.72 -7.30	6.71 -7.33
JULY	6.53 -7.69	6.67 -7.70
AUGUST	6.71 -7.57	6.87 -7.54
SEPTEMBER	6.79 -7.47	6.90 -7.48
OCTOBER	6.52 -7.29	6.53 -7.32
NOVEMBER	6.55 -7.19	6.52 -7.21
DECEMBER	6.35 -6.82	6.37 -7.07
JANUARY	6.51 -6.80	6.73 -7.15
FEBRUARY	6.53 -6.97	6.72 -7.03
MARCH	6.34 -6.87	6.41 -6.97
APRIL	6.59 -6.90	6.62 -7.22
MAY	6.57 -6.83	6.57 -7.28

prb/ 2011 MKbiomon.doc.

On average, the differential between stations N-5 and S-0 is typically 0.3 SU or less. Occasionally the differential drifts slightly higher, usually due to probe fouling. The fouling process is aggravated during the year by various events such as river temperature increases, and spring run-off.

To date, the quality of data collected has not been significantly affected by probe fouling. PSNH has improved the equipment inspection and data processing schedule to lessen the impact of fouling and detect discrepancies.

## V. Annual Summary

### pH

Permit compliance was maintained. Station-to-station data was generally consistent with past seasonal fluctuations. On occasion recorded data was not completely consistent over short duration. This is attributed to minor disruptions such as probe fouling, floating debris, lightning damage and A. C. power outages. PSNH successfully limits these upsets by performing weekly maintenance inspections. Values below 6.5 SU were recorded during the year due to naturally occurring ambient conditions (see Table 3).

### Temperature

Power spray modules were operated in accordance with the permit conditions. Station-to-station data was generally consistent with past seasonal fluctuations.

Stations S-0, S-4, and N-10 were in service at the beginning of the monitoring period. Station N-10 records are supplemented with data from unit condenser operation log when it is out of service. Station N-10 was removed from service on December 6, 2010 when the ambient river temperature fell below 40° F. Station S-4 was removed from service on December 6, 2010.

Station S-4 was installed on April 8, 2011 and Station N-10 was installed on April 8, 2011. The ambient river temperature was 42.4 ° F.

Unit condenser RTD temperature data was used to supplement data collection during N-10 station outages.

## Dissolved Oxygen

Compliance with Class B water quality standards was maintained and concentrations were generally consistent with past seasonal fluctuations. Unfortunately, outages due to weather and other ambient environmental conditions occur.

Station N-5 probe was removed from service on December 21, 2010 after ambient river temperature fell below 40°F. Station S-O probe was removed from service on December 21, 2010.

The probe was installed at S-O on April 18, 2011, and the probe was installed at N-5 on April 18, 2011. The average ambient river temperature on April 18, 2011 was 35.85 °F.

On April 22, 2011 Unit #2 curtailed operations at 0515 due to a forced transmission line bus maintenance outage to replace damaged electrical insulators. Due to this outage the cooling water circulators were removed from service. The DO probe was left standing in stagnant water and recorded data that was off scale and out of range for ambient river conditions. The off scale data was reported to the State of New Hampshire, Water Division, Permits and Compliance Section after consultation with the agency. The data has been included on the May 2011 data sheet. Unit #2 returned to service on May 13, 2011 at 1145.

PSNH is stocking a large spare equipment inventory onsite for all of the biological monitoring parameters to prevent multiple outages.

## CHILL EVENTS

In the 1991-1992 report, PSNH began reporting chill events in the cooling canal due to the curtailment of unit operation. The chill events were defined as events in which the temperature in the canal dropped at least 10 degrees centigrade in a 24-hour period to a temperature of less than 10 degrees centigrade.

There was one chill event (formally cold thermal excursions) due to the operation of the plant during the monitoring period.

CHILL EVENTS continued

On January 24, 2011 plant operation was curtailed at 0750 with Unit #1 due to the no load steam flow sensing line freezing due to the ambient cold temperatures. The line was repaired and the unit was returned to service at 0955. The same day Unit #2 was operating at reduced load due to the lower coal feeder being plugged and eventually unit operation was curtailed due to a gas recirculation duct floor tube leak at 1353. The unit was returned to service on January 29, 2011 at 1209.



## TABLE OF CONTENTS

Merrimack Station biological monitoring data is organized in the following chronological sequence, June 2010 through May 2011. Twelve months of data are arranged by parameter:

<u>Station</u>	<u>Parameter</u>
S-0	Dissolved Oxygen
S-0	pH
S-0	Temperature
N-5	Dissolved Oxygen
N-5	pH
N10	Temperature
S-4	Temperature

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR June 2010

STATION: Zero

PARAMETER: Dissolved Oxygen (MG/L)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
06/01/2010	6.77	0815	6.39	6.00	2030	96
06/02/2010	6.44	0930	6.21	6.04	0015	96
06/03/2010	6.15	0530	6.03	5.95	1300	96
06/04/2010	6.18	1045	5.99	5.97	0200	96
06/05/2010	6.30	0515	5.99	5.95	1530	96
06/06/2010	6.77	2345	6.25	5.96	0115	96
06/07/2010	6.80	1300	6.63	6.34	1100	96
06/08/2010	6.81	2315	6.67	6.53	0530	96
06/09/2010	6.94	0645	6.58	6.30	2300	96
06/10/2010	7.07	2200	6.67	6.30	0045	96
06/11/2010	7.33	0100	6.61	6.19	1245	96
06/12/2010	6.57	0515	6.41	6.24	2030	96
06/13/2010	6.51	2330	6.28	6.08	2145	96
06/14/2010	6.94	1045	6.56	6.06	0200	96
06/15/2010	7.11	0945	6.82	6.57	1915	96
06/16/2010	7.08	0800	6.78	6.42	2330	96
06/17/2010	6.82	0500	6.56	6.36	1930	96
06/18/2010	7.01	1245	6.67	6.39	0045	96
06/19/2010	6.86	0615	6.63	6.18	2100	96
06/20/2010	6.45	1100	6.25	5.98	2115	96
06/21/2010	6.51	1315	6.07	5.88	2200	96
06/22/2010	6.30	0830	6.00	5.85	2330	96
06/23/2010	6.11	0145	5.95	5.86	1045	96
06/24/2010	6.48	0800	5.99	5.84	1630	96
06/25/2010	6.18	0430	5.96	5.81	0030	96
06/26/2010	6.00	0615	5.91	5.85	0845	96
06/27/2010	6.08	1400	5.91	5.84	1245	96
06/28/2010	6.40	1230	5.99	5.84	0700	96
06/29/2010	6.47	2330	6.06	5.85	0945	96
06/30/2010	6.39	2345	6.01	5.82	1530	96
AVERAGE	6.594		6.294	6.074		
STD DEV.:	0.356		0.309	0.234		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM  
MONTHLY SUMMARY REPORT FOR June 2010

STATION: Zero

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
06/01/2010	6.885	1700	6.766	6.705	2345	96
06/02/2010	7.030	1730	6.862	6.706	0230	96
06/03/2010	7.100	1745	6.939	6.839	0100	96
06/04/2010	7.030	0545	6.938	6.857	0200	96
06/05/2010	7.030	0500	6.850	6.807	2000	96
06/06/2010	6.830	0645	6.821	6.813	0915	54
06/07/2010	7.100	1330	7.100	7.100	1330	1
06/08/2010	6.811	1630	6.788	6.759	2245	45
06/09/2010	6.924	0745	6.836	6.736	0415	96
06/10/2010	6.973	1815	6.884	6.829	0330	96
06/11/2010	7.220	1730	7.026	6.885	0045	96
06/12/2010	7.240	1730	7.142	7.090	0215	96
06/13/2010	7.210	0530	7.118	7.070	2015	96
06/14/2010	7.160	1730	7.096	7.060	0200	96
06/15/2010	7.280	0830	7.131	7.060	0030	95
06/16/2010	7.250	1745	7.100	7.030	0800	96
06/17/2010	7.210	1745	7.118	7.060	2245	96
06/18/2010	7.270	1730	7.141	7.050	0230	96
06/19/2010	7.330	1745	7.171	7.040	0315	96
06/20/2010	7.260	0530	7.164	7.090	2230	96
06/21/2010	7.200	1145	7.120	7.020	2300	96
06/22/2010	7.180	1445	7.100	7.000	0045	96
06/23/2010	7.240	1715	7.133	6.999	2330	96
06/24/2010	7.230	1345	7.113	6.988	0145	96
06/25/2010	7.230	1715	7.098	6.981	0130	96
06/26/2010	7.240	1730	7.100	7.010	2330	96
06/27/2010	7.200	1730	7.057	6.972	2330	96
06/28/2010	7.150	1030	7.012	6.924	1200	48
06/29/2010	6.875	1545	6.840	6.766	0930	60
06/30/2010	6.902	0800	6.826	6.752	2145	96
AVERAGE	7.120		7.013	6.933		
STD DEV.:	0.152		0.134	0.131		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR June 2010

STATION: Zero

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
06/01/2010	32.750	1615	31.181	30.230	0645	96
06/02/2010	32.530	1530	31.415	30.320	0600	96
06/03/2010	32.570	1630	31.815	31.190	0745	96
06/04/2010	33.540	1430	32.253	31.040	0515	96
06/05/2010	33.980	2345	33.212	32.310	0700	96
06/06/2010	33.860	0015	32.116	30.750	2300	96
06/07/2010	31.510	1615	30.566	29.370	2400	96
06/08/2010	29.520	1600	28.918	28.240	0545	96
06/09/2010	29.280	1300	28.572	27.700	0615	96
06/10/2010	28.280	0015	27.779	27.510	2400	96
06/11/2010	28.620	1945	27.778	26.980	0745	96
06/12/2010	28.320	1945	27.887	27.400	0700	96
06/13/2010	28.150	0015	27.976	27.820	2345	96
06/14/2010	29.170	1630	28.263	27.420	0545	96
06/15/2010	29.400	1930	28.416	27.250	0630	96
06/16/2010	29.310	1600	28.724	27.940	0500	96
06/17/2010	29.200	0145	28.943	28.530	2300	96
06/18/2010	30.540	1745	29.336	27.920	0600	96
06/19/2010	31.780	2215	30.587	29.160	0615	96
06/20/2010	33.070	1515	32.268	31.380	0600	96
06/21/2010	34.630	1645	33.272	32.200	0530	96
06/22/2010	33.980	1545	32.834	31.690	0715	96
06/23/2010	36.000	1815	34.188	32.740	0515	96
06/24/2010	36.540	1630	34.378	32.740	0600	96
06/25/2010	34.480	1630	33.590	32.520	0630	96
06/26/2010	33.910	1415	33.538	32.960	0715	96
06/27/2010	34.100	2045	33.302	32.710	0815	96
06/28/2010	35.800	1645	33.869	32.160	2400	96
06/29/2010	32.660	1615	31.897	31.360	0615	96
06/30/2010	31.700	1545	31.210	30.580	2400	96
AVERAGE	31.973		31.003	30.071		
STD DEV.:	2.547		2.231	2.064		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR June 2010

STATION: N5

PARAMETER: Dissolved Oxygen (MG/L)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
06/01/2010	8.40	1900	8.10	7.68	0800	96
06/02/2010	8.64	1700	8.19	7.76	0630	96
06/03/2010	8.21	1830	7.97	7.74	2345	96
06/04/2010	8.10	1945	7.81	7.51	0730	96
06/05/2010	7.93	1945	7.59	7.22	0815	96
06/06/2010	7.59	0015	7.25	6.98	2400	96
06/07/2010	7.44	1415	7.16	6.90	0415	96
06/08/2010	7.98	1500	7.54	7.15	0045	96
06/09/2010	8.22	1500	7.93	7.61	1045	96
06/10/2010	8.18	1530	8.02	7.89	2400	96
06/11/2010	8.35	1800	8.03	7.75	0545	96
06/12/2010	8.37	1500	8.10	7.87	0630	96
06/13/2010	8.23	1615	8.07	7.93	0515	96
06/14/2010	8.93	1645	8.36	7.87	0715	96
06/15/2010	9.16	1700	8.82	8.47	0700	96
06/16/2010	9.16	1745	8.83	8.50	0715	96
06/17/2010	8.99	1900	8.70	8.36	0845	96
06/18/2010	8.82	1300	8.51	8.27	1330	96
06/19/2010	8.60	1830	8.23	7.84	0700	96
06/20/2010	8.40	1745	8.06	7.65	0730	96
06/21/2010	8.34	1730	7.96	7.57	0715	96
06/22/2010	8.39	1730	7.92	7.52	0815	96
06/23/2010	8.02	1900	7.76	7.41	0645	96
06/24/2010	8.24	1915	7.80	7.21	0815	96
06/25/2010	8.44	1830	7.96	7.53	0715	96
06/26/2010	8.08	1615	7.61	7.10	0700	96
06/27/2010	7.70	1800	7.24	6.83	0645	96
06/28/2010	7.75	1815	7.17	6.65	0815	96
06/29/2010	8.77	1100	7.79	6.90	0700	96
06/30/2010	8.54	1630	8.27	8.03	0600	96
AVERAGE	8.332		7.958	7.590		
STD DEV.:	0.435		0.441	0.488		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR June 2010

STATION: N5

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
06/01/2010	7.130	1000	7.006	6.958	0845	96
06/02/2010	7.150	2015	7.022	6.927	0645	96
06/03/2010	7.080	1630	6.997	6.935	0615	96
06/04/2010	6.970	2030	6.926	6.882	0845	96
06/05/2010	6.967	2000	6.906	6.847	0815	96
06/06/2010	6.916	2015	6.861	6.804	1100	96
06/07/2010	6.929	1615	6.881	6.817	0615	96
06/08/2010	7.160	1500	6.918	6.845	0130	96
06/09/2010	6.962	1515	6.930	6.891	2330	96
06/10/2010	6.917	1800	6.891	6.865	0530	96
06/11/2010	6.919	1545	6.884	6.859	0600	96
06/12/2010	6.925	1530	6.889	6.862	0630	96
06/13/2010	6.883	1400	6.860	6.840	0715	96
06/14/2010	6.957	1330	6.868	6.831	0800	96
06/15/2010	7.020	1745	6.936	6.869	0345	96
06/16/2010	6.993	2030	6.944	6.894	0600	96
06/17/2010	6.992	1645	6.935	6.868	0830	96
06/18/2010	7.070	2000	6.970	6.896	0715	96
06/19/2010	7.090	1915	6.992	6.894	0645	96
06/20/2010	7.160	1800	6.991	6.866	0715	96
06/21/2010	7.180	1645	7.048	6.923	0630	96
06/22/2010	7.300	1745	7.069	6.944	0645	96
06/23/2010	7.080	1830	7.002	6.913	0830	96
06/24/2010	7.020	1645	6.922	6.848	0945	96
06/25/2010	7.030	1515	6.938	6.835	0600	96
06/26/2010	7.040	1900	6.925	6.820	0715	96
06/27/2010	7.020	1815	6.879	6.773	0545	96
06/28/2010	6.905	1700	6.824	6.742	0815	96
06/29/2010	6.997	1745	6.841	6.729	1100	96
06/30/2010	6.901	0115	6.830	6.718	2330	96
AVERAGE	7.022		6.930	6.857		
STD DEV.:	0.101		0.064	0.061		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR June 2010

STATION: N10

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
06/01/2010	23.010	0015	22.593	22.240	0900	96
06/02/2010	23.740	1800	22.944	22.230	0730	96
06/03/2010	23.540	1845	23.211	22.960	0915	96
06/04/2010	24.590	1815	23.765	23.070	0800	96
06/05/2010	24.960	1800	24.331	23.750	0845	96
06/06/2010	24.530	0015	23.886	23.120	2400	96
06/07/2010	23.060	0015	21.965	21.360	2400	96
06/08/2010	21.720	1700	21.417	20.980	2400	96
06/09/2010	21.100	1500	20.747	20.260	2400	96
06/10/2010	20.210	0015	19.707	19.210	2400	96
06/11/2010	19.990	1745	19.353	18.860	0845	96
06/12/2010	19.940	1515	19.475	19.010	0600	96
06/13/2010	19.490	0015	19.157	18.830	2345	96
06/14/2010	19.880	1730	19.167	18.640	0545	96
06/15/2010	21.140	1815	19.934	18.860	0630	96
06/16/2010	20.810	1900	20.273	19.660	1000	96
06/17/2010	20.470	0015	20.037	19.710	0845	96
06/18/2010	21.530	1815	20.319	19.220	0730	96
06/19/2010	23.350	1900	21.814	20.490	0730	96
06/20/2010	24.420	2015	23.246	22.300	0730	96
06/21/2010	24.920	1745	24.204	23.600	0645	96
06/22/2010	25.010	1645	24.502	24.000	0915	96
06/23/2010	24.860	1630	24.617	24.300	0900	96
06/24/2010	25.260	1930	24.779	24.430	0700	96
06/25/2010	25.880	1830	25.032	24.250	0830	96
06/26/2010	25.520	1630	25.014	24.360	0830	96
06/27/2010	24.740	0015	24.336	23.910	0900	96
06/28/2010	24.350	1845	23.984	23.570	0915	96
06/29/2010	25.470	1630	24.651	24.090	0730	96
06/30/2010	24.820	0015	24.127	23.370	2400	96
AVERAGE	23.077		22.420	21.821		
STD DEV.:	2.093		2.090	2.112		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR June 2010

STATION: S4

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
06/01/2010	28.120	1630	27.163	26.490	0715	96
06/02/2010	30.120	1730	27.944	25.810	1145	96
06/03/2010	29.190	1545	28.232	26.910	2145	96
06/04/2010	29.080	1930	27.983	26.630	0245	96
06/05/2010	29.980	1215	29.229	28.490	0315	96
06/06/2010	29.320	0215	27.056	24.560	2330	96
06/07/2010	24.930	0115	23.910	22.600	1345	96
06/08/2010	23.950	2300	22.500	21.430	0245	96
06/09/2010	24.380	1315	23.438	22.510	0500	96
06/10/2010	23.610	0030	22.865	21.740	2345	96
06/11/2010	24.580	1545	22.701	20.980	0215	96
06/12/2010	22.700	0130	21.877	20.980	0530	96
06/13/2010	22.780	1900	22.022	21.030	0815	96
06/14/2010	23.860	1445	22.706	21.990	2300	96
06/15/2010	24.590	1845	22.978	21.170	0530	96
06/16/2010	25.000	1715	24.101	22.950	0845	96
06/17/2010	24.800	0030	23.814	22.210	1045	96
06/18/2010	25.640	1830	24.284	22.730	1300	96
06/19/2010	27.460	1930	26.010	24.460	0730	96
06/20/2010	29.770	1545	27.858	26.540	0330	96
06/21/2010	30.070	2315	28.722	27.310	1815	96
06/22/2010	30.760	1700	29.348	27.890	0930	96
06/23/2010	31.510	2030	29.664	27.740	1200	96
06/24/2010	31.050	1500	29.972	28.970	2400	96
06/25/2010	30.620	1815	29.000	26.510	0845	96
06/26/2010	29.740	0015	28.444	26.700	0900	96
06/27/2010	29.490	1900	28.880	27.800	0800	96
06/28/2010	31.310	1530	29.509	27.130	1200	96
06/29/2010	30.620	0015	26.503	24.910	1145	96
06/30/2010	25.630	2115	24.813	24.290	0900	96
AVERAGE	27.489		26.118	24.715		
STD DEV.:	2.972		2.765	2.633		



PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR July 2010

STATION: Zero

PARAMETER: Dissolved Oxygen (MG/L)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
07/01/2010	7.12	1230	6.60	6.27	0745	96
07/02/2010	7.24	0815	6.69	6.34	0015	96
07/03/2010	6.73	1315	6.58	6.41	0100	96
07/04/2010	6.71	0500	6.53	6.15	2345	96
07/05/2010	6.42	0345	6.24	5.93	2000	83
07/06/2010	6.55	1200	6.00	5.84	1815	49
07/07/2010	6.97	0830	5.99	5.79	1830	96
07/08/2010	6.40	1215	6.02	5.84	1015	96
07/09/2010	6.25	0930	6.02	5.72	2330	96
07/10/2010	6.35	0215	6.10	5.83	2400	96
07/11/2010	6.69	0745	6.13	5.81	1000	96
07/12/2010	6.50	1000	5.91	5.52	2045	96
07/13/2010	6.05	1830	5.77	5.58	0130	96
07/14/2010	6.29	0900	6.09	5.81	0245	96
07/15/2010	6.56	0745	6.12	5.54	2145	96
07/16/2010	6.04	1900	5.83	5.60	0600	96
07/17/2010	6.36	0630	5.87	5.49	1900	96
07/18/2010	6.58	1130	6.04	5.65	2400	96
07/19/2010	6.84	1000	6.11	5.44	2100	96
07/20/2010	6.96	0915	6.19	5.39	0030	96
07/21/2010	6.71	1030	6.04	5.30	2015	96
07/22/2010	6.85	0945	6.12	5.30	0030	96
07/23/2010	6.81	1000	6.11	5.57	2200	96
07/24/2010	6.28	1230	5.91	5.57	2400	96
07/25/2010	6.09	0815	5.71	5.53	0130	96
07/26/2010	6.83	0915	6.22	5.68	0045	96
07/27/2010	6.47	1230	5.97	5.54	0200	96
07/28/2010	6.64	1615	6.18	5.69	2400	96
07/29/2010	6.44	1215	5.93	5.44	2215	96
07/30/2010	6.98	1030	6.12	5.41	0515	96
07/31/2010	6.44	1215	6.07	5.70	1630	96
AVERAGE	6.585		6.103	5.699		
STD DEV.:	0.307		0.231	0.286		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM  
MONTHLY SUMMARY REPORT FOR July 2010

STATION: Zero

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
07/01/2010	6.834	1700	6.765	6.673	1100	96
07/02/2010	6.934	1345	6.839	6.751	0815	96
07/03/2010	6.986	1715	6.893	6.813	0045	96
07/04/2010	6.984	1730	6.897	6.812	0100	96
07/05/2010	6.983	1145	6.898	6.820	0215	83
07/06/2010	6.952	1545	6.896	6.817	1115	54
07/07/2010	7.090	1445	6.943	6.771	0600	96
07/08/2010	7.180	1400	7.028	6.907	0230	96
07/09/2010	7.180	1430	7.059	6.970	0415	96
07/10/2010	7.110	1130	7.046	6.933	2330	96
07/11/2010	7.390	1945	7.269	6.996	0030	96
07/12/2010	7.330	1345	7.197	7.110	2200	96
07/13/2010	7.190	1300	7.101	7.020	2300	96
07/14/2010	7.120	1445	7.035	6.940	0600	96
07/15/2010	7.260	1345	7.065	6.898	0300	96
07/16/2010	7.240	1515	7.056	6.895	0345	96
07/17/2010	7.490	1400	7.170	6.898	0300	96
07/18/2010	7.560	1700	7.285	6.997	0230	96
07/19/2010	7.640	1345	7.322	7.050	0245	69
07/20/2010	7.640	1245	7.527	7.280	2400	63
07/21/2010	7.630	0900	7.315	7.090	0315	63
07/22/2010	7.610	1130	7.318	7.120	2345	76
07/23/2010	7.530	1030	7.298	7.120	0400	96
07/24/2010	7.550	1415	7.297	7.160	0100	96
07/25/2010	7.510	1400	7.256	7.100	0215	96
07/26/2010	7.650	1430	7.326	7.120	0100	96
07/27/2010	7.670	1215	7.347	7.140	0215	96
07/28/2010	7.700	1315	7.325	7.040	0530	96
07/29/2010	7.610	1430	7.274	7.090	0500	96
07/30/2010	7.620	1515	7.293	7.080	0200	96
07/31/2010	7.620	1345	7.293	7.070	0115	96
AVERAGE	7.348		7.149	6.983		
STD DEV.:	0.276		0.190	0.144		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR July 2010

STATION: Zero

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
07/01/2010	30.540	0015	29.491	28.800	2400	96
07/02/2010	31.430	1745	29.780	27.930	0615	96
07/03/2010	32.510	1915	31.329	29.980	0615	96
07/04/2010	33.260	1845	32.495	31.570	0630	96
07/05/2010	35.580	2000	33.683	32.370	0615	83
07/06/2010	37.800	1615	37.078	35.130	1045	54
07/07/2010	38.310	1445	37.096	35.200	0800	96
07/08/2010	38.710	1430	37.411	36.330	0715	96
07/09/2010	38.130	1800	37.216	36.430	0400	96
07/10/2010	37.570	1145	36.645	32.540	2400	96
07/11/2010	38.140	2030	34.093	29.440	0430	96
07/12/2010	39.320	1600	37.500	35.270	0700	96
07/13/2010	39.160	2015	37.790	36.230	0630	96
07/14/2010	38.950	0015	38.087	36.320	0830	96
07/15/2010	39.130	1645	37.323	35.770	0830	96
07/16/2010	39.460	1645	37.567	35.590	0800	96
07/17/2010	39.430	1600	37.996	36.280	0715	96
07/18/2010	39.070	1900	37.641	36.280	0715	96
07/19/2010	39.020	1845	37.434	36.090	0645	96
07/20/2010	38.630	1745	37.525	35.750	0800	96
07/21/2010	39.260	1645	37.349	35.360	0745	96
07/22/2010	38.020	0015	36.568	35.130	0745	96
07/23/2010	36.770	1400	35.639	34.420	0615	96
07/24/2010	37.970	1645	35.986	34.400	0800	96
07/25/2010	37.390	0015	36.159	34.770	2400	96
07/26/2010	35.750	1430	34.613	33.620	0615	96
07/27/2010	36.700	1930	34.869	33.140	0630	96
07/28/2010	37.460	2215	35.902	33.660	0615	96
07/29/2010	37.370	0100	36.802	35.750	0630	96
07/30/2010	36.460	0015	34.876	33.490	0745	96
07/31/2010	34.550	0015	33.595	32.550	0800	96
AVERAGE	37.156		35.727	34.051		
STD DEV.:	2.403		2.355	2.391		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR July 2010

STATION: N5

PARAMETER: Dissolved Oxygen (MG/L)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
07/01/2010	8.39	0830	8.22	8.11	1645	96
07/02/2010	8.38	1745	8.18	7.87	2400	96
07/03/2010	8.36	1930	7.88	7.33	0715	96
07/04/2010	7.94	0015	7.65	7.31	0745	96
07/05/2010	7.71	1830	7.27	6.98	0745	96
07/06/2010	8.11	1900	7.27	6.49	0645	96
07/07/2010	8.17	1545	7.67	7.01	0645	96
07/08/2010	8.18	1645	7.38	6.66	0630	96
07/09/2010	8.00	2045	7.22	6.37	0700	96
07/10/2010	7.69	2030	6.96	6.43	0745	96
07/11/2010	7.95	1945	7.03	6.34	0800	96
07/12/2010	7.98	1500	7.08	6.19	0700	96
07/13/2010	8.16	1615	7.22	6.32	0730	96
07/14/2010	7.55	1915	6.77	6.16	0915	96
07/15/2010	7.84	1800	7.13	6.27	0145	96
07/16/2010	7.14	0015	6.62	6.03	2115	96
07/17/2010	7.96	1630	7.19	6.44	0200	96
07/18/2010	7.98	1000	7.32	6.74	2130	96
07/19/2010	7.78	1445	7.28	7.00	2015	96
07/20/2010	8.20	1300	7.63	7.07	1715	96
07/21/2010	7.79	1515	7.30	6.75	2200	96
07/22/2010	7.79	1145	7.46	7.07	0100	96
07/23/2010	7.78	1545	7.23	6.64	2400	96
07/24/2010	7.50	1715	6.71	6.04	0815	96
07/25/2010	7.09	1600	6.63	6.02	0700	96
07/26/2010	7.76	1130	6.84	6.06	0715	96
07/27/2010	7.76	1745	7.03	6.30	0645	96
07/28/2010	7.75	1800	7.09	6.36	0545	96
07/29/2010	7.43	1745	6.84	6.23	0730	96
07/30/2010	8.03	1815	7.08	6.12	0715	96
07/31/2010	8.07	1745	7.31	6.51	0730	96
AVERAGE	7.878		7.241	6.620		
STD DEV.:	0.318		0.395	0.530		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR July 2010

STATION: N5

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
07/01/2010	6.851	1800	6.758	6.671	0400	96
07/02/2010	6.955	1900	6.821	6.700	0545	96
07/03/2010	6.864	1430	6.807	6.742	0615	96
07/04/2010	6.814	1600	6.731	6.647	2400	96
07/05/2010	6.751	1545	6.666	6.590	0600	96
07/06/2010	6.868	1415	6.674	6.527	0330	96
07/07/2010	7.150	1745	6.812	6.575	0400	96
07/08/2010	7.160	1700	6.864	6.688	0745	96
07/09/2010	7.480	1730	7.004	6.720	0715	96
07/10/2010	7.130	0145	7.029	6.930	1245	96
07/11/2010	7.380	1715	7.124	6.882	0915	96
07/12/2010	7.470	1745	7.117	6.949	0600	96
07/13/2010	7.510	1630	7.163	6.951	0645	96
07/14/2010	7.300	1815	7.078	6.925	0730	96
07/15/2010	7.300	1730	7.092	6.936	0600	96
07/16/2010	7.370	1530	7.157	7.030	0500	96
07/17/2010	7.390	1515	7.235	7.050	2215	96
07/18/2010	7.320	1345	7.166	6.900	2145	96
07/19/2010	7.240	0100	7.113	7.010	2200	96
07/20/2010	7.330	1545	7.074	6.861	1000	93
07/21/2010	7.180	1330	7.041	6.747	0345	96
07/22/2010	7.580	1630	7.163	6.618	0215	96
07/23/2010	7.640	1600	7.152	6.716	0630	96
07/24/2010	7.040	0015	6.918	6.850	0730	39
07/26/2010	7.500	1445	7.293	7.110	2400	50
07/27/2010	7.720	1615	7.198	6.757	0645	96
07/28/2010	7.620	1415	7.195	6.786	0715	96
07/29/2010	7.480	1700	7.018	6.770	2400	96
07/30/2010	7.610	2045	7.123	6.600	0245	96
07/31/2010	7.690	1715	7.133	6.798	0800	96
AVERAGE	7.290		7.024	6.801		
STD DEV.:	0.282		0.177	0.156		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR July 2010

STATION: N10

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
07/01/2010	23.360	0015	23.003	22.350	2400	96
07/02/2010	23.200	1745	22.386	21.670	0730	96
07/03/2010	23.920	2030	22.751	21.740	0830	96
07/04/2010	24.390	2400	23.793	23.140	0715	96
07/05/2010	26.120	1800	25.127	24.400	0045	96
07/06/2010	27.370	1815	26.362	25.540	0100	96
07/07/2010	28.810	1630	27.588	26.530	0345	96
07/08/2010	29.250	1545	28.491	28.000	0100	96
07/09/2010	29.380	1815	28.705	28.180	0745	96
07/10/2010	28.780	0015	28.191	27.860	2400	96
07/11/2010	28.520	1815	27.862	27.300	0900	96
07/12/2010	28.280	1730	27.731	27.160	0745	96
07/13/2010	28.580	1715	27.977	27.420	0700	96
07/14/2010	28.350	1815	28.023	27.830	0615	96
07/15/2010	28.130	1800	27.690	27.350	0730	96
07/16/2010	28.250	1830	27.570	26.910	1015	96
07/17/2010	28.890	1730	28.282	27.770	0715	96
07/18/2010	28.930	1700	28.406	28.020	0700	96
07/19/2010	28.380	1745	27.948	27.610	0745	79
07/20/2010	28.210	1745	27.767	27.320	0800	90
07/21/2010	28.420	1630	27.531	26.800	0715	96
07/22/2010	27.540	0015	27.085	26.770	2400	96
07/23/2010	26.760	0015	26.515	26.140	2400	96
07/24/2010	27.050	1815	26.200	25.530	0845	96
07/25/2010	26.720	1800	26.277	25.850	0800	96
07/26/2010	26.200	0015	25.931	25.630	1000	96
07/27/2010	26.080	1900	25.526	24.810	0815	96
07/28/2010	26.530	1845	25.892	25.250	0730	96
07/29/2010	27.400	1715	26.618	26.060	0315	96
07/30/2010	27.010	1700	26.327	25.680	0800	96
07/31/2010	26.680	1700	25.917	25.350	0930	96
AVERAGE	27.274		26.628	26.064		
STD DEV.:	1.692		1.725	1.828		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR July 2010

STATION: S4

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
07/01/2010	25.790	1845	24.745	24.150	0930	96
07/02/2010	27.190	2015	25.334	23.720	0230	96
07/03/2010	28.430	2300	26.992	25.670	0800	96
07/04/2010	29.890	2345	28.432	27.220	0845	96
07/05/2010	31.770	2215	29.810	27.360	0800	96
07/06/2010	32.450	2400	30.923	28.830	0515	96
07/07/2010	34.920	2100	32.946	30.050	1300	96
07/08/2010	35.830	1800	33.961	30.660	0430	96
07/09/2010	35.390	1930	33.913	32.480	0715	96
07/10/2010	35.000	1315	33.359	30.770	2245	96
07/11/2010	34.240	2245	30.904	28.230	0900	96
07/12/2010	34.420	2315	33.311	32.040	1915	96
07/13/2010	35.110	1815	33.714	32.190	0700	96
07/14/2010	34.990	2000	33.638	32.430	1500	96
07/15/2010	33.830	1930	32.731	30.910	0615	96
07/16/2010	34.300	2215	32.866	31.330	0915	96
07/17/2010	35.500	1730	33.596	31.710	0945	96
07/18/2010	34.930	0145	33.158	31.880	1045	96
07/19/2010	34.520	1815	33.372	32.100	0945	96
07/20/2010	34.470	1800	32.974	31.000	1145	96
07/21/2010	34.970	2100	32.984	30.430	2400	96
07/22/2010	33.100	0030	31.668	30.390	1400	96
07/23/2010	31.700	1615	30.417	29.360	0645	96
07/24/2010	33.150	2030	31.005	29.290	1200	96
07/25/2010	32.620	0045	31.178	29.670	1030	96
07/26/2010	30.720	0100	29.293	27.880	2015	96
07/27/2010	31.920	2145	29.701	28.630	0230	96
07/28/2010	33.000	2300	31.384	28.710	0415	96
07/29/2010	33.620	1145	32.288	30.160	2030	96
07/30/2010	31.750	0045	30.569	29.310	2000	96
07/31/2010	31.120	1545	30.178	29.220	0900	96
AVERAGE	32.924		31.334	29.606		
STD DEV.:	2.488		2.433	2.264		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR August 2010

STATION: Zero

PARAMETER: Dissolved Oxygen (MG/L)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
08/01/2010	6.18	2330	5.92	5.78	1100	96
08/02/2010	6.67	1100	6.06	5.80	1930	96
08/03/2010	6.47	1330	6.06	5.67	0030	96
08/04/2010	6.35	1245	5.87	5.43	1900	96
08/05/2010	5.79	1030	5.61	5.48	1245	96
08/06/2010	6.30	1030	5.85	5.49	0730	96
08/07/2010	6.43	1330	5.99	5.65	2100	96
08/08/2010	6.15	1145	5.75	5.54	1730	96
08/09/2010	6.35	1430	5.82	5.53	0400	96
08/10/2010	6.67	2345	5.96	5.61	1545	96
08/11/2010	7.18	1815	6.74	6.56	1000	96
08/12/2010	7.13	1100	6.83	6.67	0015	96
08/13/2010	7.33	0645	6.45	5.61	2000	96
08/14/2010	6.11	0915	5.81	5.42	2000	96
08/15/2010	6.23	1945	5.72	5.48	0645	96
08/16/2010	6.66	0900	6.25	5.76	2200	96
08/17/2010	6.61	0900	6.15	5.59	0215	96
08/18/2010	6.57	1815	6.24	5.74	0230	96
08/19/2010	6.39	1300	5.99	5.71	2000	96
08/20/2010	6.89	1200	6.12	5.54	2045	96
08/21/2010	6.28	1930	5.94	5.70	0900	96
08/22/2010	6.39	1345	6.18	5.90	2200	96
08/23/2010	7.00	1900	6.45	5.62	0530	96
08/24/2010	7.06	1015	6.72	6.35	1900	96
08/25/2010	6.83	1445	6.45	6.22	2315	96
08/26/2010	7.33	0815	6.83	6.20	0200	96
08/27/2010	7.43	1000	7.13	6.73	0030	96
08/28/2010	7.10	0245	6.63	6.20	2000	96
08/29/2010	6.79	1530	6.33	5.95	2300	96
08/30/2010	7.13	0945	6.40	5.90	0030	96
08/31/2010	6.62	0915	6.16	5.71	2230	96
AVERAGE	6.659		6.207	5.824		
STD DEV.:	0.417		0.379	0.366		



PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM  
MONTHLY SUMMARY REPORT FOR August 2010

STATION: Zero

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
08/01/2010	7.540	1245	7.285	7.120	0445	96
08/02/2010	7.470	0930	7.272	7.100	0200	96
08/03/2010	7.520	0800	7.382	7.160	1400	96
08/04/2010	7.490	1500	7.327	7.126	0330	67
08/05/2010	7.360	1300	7.243	7.140	2300	96
08/06/2010	7.440	1245	7.247	7.080	2400	96
08/07/2010	7.480	1130	7.281	7.080	0015	96
08/08/2010	7.460	0545	7.317	7.130	0015	96
08/09/2010	7.420	1145	7.229	7.120	2130	96
08/10/2010	7.430	1330	7.258	7.060	0400	96
08/11/2010	7.540	0930	7.411	7.240	2015	96
08/12/2010	7.430	1400	7.292	7.110	1845	96
08/13/2010	7.480	1215	7.248	7.090	0315	96
08/14/2010	7.430	1315	7.218	7.060	0030	96
08/15/2010	7.310	1745	7.189	7.060	0045	96
08/16/2010	7.280	1800	7.168	7.090	2230	96
08/17/2010	7.350	1200	7.186	7.000	0400	96
08/18/2010	7.330	1215	7.169	7.050	0300	96
08/19/2010	7.320	1730	7.186	7.070	0045	96
08/20/2010	7.330	1445	7.178	6.996	2315	96
08/21/2010	7.410	1245	7.185	7.030	0015	96
08/22/2010	7.330	1545	7.187	7.040	2315	96
08/23/2010	7.290	1715	7.188	7.070	0015	96
08/24/2010	7.400	1745	7.298	7.210	0015	96
08/25/2010	7.340	0515	7.236	7.160	2215	96
08/26/2010	7.240	0800	7.104	6.926	2400	96
08/27/2010	7.140	1545	7.012	6.873	0145	96
08/28/2010	7.260	1330	7.121	6.970	0145	96
08/29/2010	7.310	1330	7.168	7.030	2400	96
08/30/2010	7.240	1245	7.097	6.966	0130	96
08/31/2010	7.300	1300	7.097	6.922	0300	96
AVERAGE	7.376		7.219	7.067		
STD DEV.:	0.098		0.086	0.082		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR August 2010

STATION: Zero

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
08/01/2010	35.500	2115	33.825	32.540	0745	96
08/02/2010	37.390	1530	34.988	32.700	0600	96
08/03/2010	36.980	2300	35.104	33.620	0715	96
08/04/2010	37.860	2300	36.315	34.910	0945	96
08/05/2010	37.970	1345	37.136	35.330	0730	96
08/06/2010	37.220	1545	35.935	34.180	2400	96
08/07/2010	34.280	1530	33.553	32.520	0730	96
08/08/2010	36.780	2300	34.355	32.560	0645	96
08/09/2010	38.220	2200	36.970	34.970	0745	96
08/10/2010	38.260	1315	35.418	30.520	2345	96
08/11/2010	31.050	0300	29.994	29.110	1945	96
08/12/2010	33.700	2315	30.060	29.480	0015	96
08/13/2010	36.980	1445	33.406	29.300	0400	96
08/14/2010	35.610	1700	34.499	33.280	0715	96
08/15/2010	34.230	0015	33.523	33.000	0745	96
08/16/2010	36.320	2345	33.897	32.780	0745	96
08/17/2010	37.550	1615	35.955	34.120	0615	96
08/18/2010	36.490	0015	34.365	32.870	0745	96
08/19/2010	37.360	1915	35.120	33.690	0700	96
08/20/2010	36.530	0015	34.663	33.180	2345	96
08/21/2010	35.150	1730	34.053	32.460	0730	96
08/22/2010	35.550	1715	34.213	33.270	2400	96
08/23/2010	33.390	1115	32.407	31.230	2400	96
08/24/2010	31.170	1700	30.927	30.630	0700	96
08/25/2010	30.840	0015	30.356	29.870	2130	96
08/26/2010	32.350	2115	30.764	29.390	0800	96
08/27/2010	31.270	0015	30.241	29.700	0715	96
08/28/2010	31.740	1845	30.609	29.120	0700	96
08/29/2010	34.640	2100	32.299	30.660	0700	96
08/30/2010	35.220	2400	33.789	32.660	0645	96
08/31/2010	37.290	1330	35.553	33.810	0600	96
AVERAGE	35.319		33.687	32.176		
STD DEV.:	2.351		2.114	1.896		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR August 2010

STATION: N5

PARAMETER: Dissolved Oxygen (MG/L)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
08/01/2010	8.10	1830	7.42	6.76	0800	96
08/02/2010	9.05	1815	7.73	6.78	0945	96
08/03/2010	8.80	1630	8.10	7.55	0600	96
08/04/2010	8.50	1945	7.88	7.39	0515	96
08/05/2010	7.64	0015	7.25	6.98	0730	96
08/06/2010	7.14	0030	6.78	6.53	1300	96
08/07/2010	7.22	1015	6.88	6.61	0045	96
08/08/2010	7.31	1645	6.88	6.65	0100	96
08/09/2010	7.29	1630	6.83	6.31	2200	96
08/10/2010	7.42	1400	6.97	6.17	0530	96
08/11/2010	7.23	0215	6.89	6.63	1000	42
08/13/2010	7.38	1500	6.88	6.66	1845	38
08/14/2010	7.37	2100	7.14	6.91	0015	96
08/15/2010	7.49	2115	7.01	6.73	1245	96
08/16/2010	7.35	1715	7.07	6.74	0300	96
08/17/2010	7.40	1930	6.93	6.35	0500	96
08/18/2010	7.43	0830	6.98	6.61	1545	96
08/19/2010	7.40	0345	7.16	6.84	0030	15
08/20/2010	7.21	1415	6.81	6.51	2100	57
08/21/2010	7.34	2400	6.91	6.57	0545	96
08/22/2010	7.35	0015	7.19	7.01	2145	96
08/23/2010	7.74	1645	7.12	6.84	1445	96
08/24/2010	7.57	1430	7.08	6.73	0715	96
08/25/2010	7.51	1915	7.23	6.87	0600	96
08/26/2010	8.17	1845	7.70	7.07	0800	96
08/27/2010	8.41	1945	8.07	7.71	0730	96
08/28/2010	8.49	1915	8.15	7.83	0800	96
08/29/2010	8.67	1915	8.21	7.83	0600	96
08/30/2010	8.41	1930	7.96	7.61	0830	96
08/31/2010	8.47	1900	7.71	7.07	1030	96
AVERAGE	7.761		7.298	6.894		
STD DEV.:	0.571		0.466	0.444		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR August 2010

STATION: N5

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
08/01/2010	7.400	1815	7.043	6.749	0745	96
08/02/2010	7.510	1600	7.168	6.828	0600	96
08/03/2010	7.520	2015	7.125	6.838	0915	96
08/04/2010	7.390	1930	7.098	6.783	0900	96
08/05/2010	7.160	0015	6.981	6.881	2345	96
08/06/2010	7.170	1730	6.942	6.808	0700	96
08/07/2010	7.170	1915	6.917	6.705	0730	96
08/08/2010	7.400	2000	7.022	6.705	0800	96
08/09/2010	7.450	1745	7.120	6.858	1200	96
08/10/2010	7.500	1330	7.279	7.050	0745	96
08/11/2010	7.500	2100	7.171	6.847	0815	96
08/12/2010	7.330	0015	7.112	6.933	2345	96
08/13/2010	7.570	1300	6.962	6.726	1415	96
08/14/2010	7.340	1900	6.995	6.763	0800	96
08/15/2010	7.100	1730	6.931	6.749	0730	96
08/16/2010	7.170	2000	6.936	6.786	0700	96
08/17/2010	7.210	2215	7.056	6.890	0930	96
08/18/2010	7.230	1815	7.038	6.867	0830	96
08/19/2010	7.360	1745	7.095	6.871	0900	96
08/20/2010	7.350	1730	7.137	6.855	0930	96
08/21/2010	7.440	1800	7.246	7.070	0530	96
08/22/2010	7.170	1645	7.076	6.943	1015	96
08/23/2010	7.100	1200	6.924	6.800	2230	96
08/24/2010	6.968	1800	6.843	6.744	0715	96
08/25/2010	7.080	0930	6.843	6.744	1315	96
08/26/2010	6.934	1730	6.852	6.765	0800	96
08/27/2010	7.010	1745	6.887	6.761	0715	96
08/28/2010	7.020	1900	6.906	6.787	0745	96
08/29/2010	7.150	2315	6.990	6.825	0745	96
08/30/2010	7.270	2300	7.051	6.936	0930	96
08/31/2010	7.380	2015	7.162	7.000	1300	96
AVERAGE	7.269		7.029	6.834		
STD DEV.:	0.179		0.117	0.095		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR August 2010

STATION: N10

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
08/01/2010	25.800	1730	25.169	24.580	0745	96
08/02/2010	25.740	1800	25.036	24.310	0800	96
08/03/2010	25.980	1815	25.216	24.610	0700	96
08/04/2010	26.990	1815	25.970	25.170	0700	96
08/05/2010	26.740	1745	26.577	26.460	0245	96
08/06/2010	27.120	1715	26.624	25.880	2400	96
08/07/2010	26.290	1700	25.688	25.180	0815	96
08/08/2010	26.050	1745	25.257	24.490	0815	96
08/09/2010	26.550	1930	25.609	24.680	0745	96
08/10/2010	27.530	1900	26.434	25.580	0745	96
08/11/2010	27.710	1730	26.898	26.080	0745	96
08/12/2010	27.330	1545	26.901	26.410	0730	96
08/13/2010	27.490	1545	26.641	26.060	0715	96
08/14/2010	26.430	1815	26.008	25.470	0830	96
08/15/2010	25.810	0015	25.228	24.820	0800	96
08/16/2010	25.050	1830	24.758	24.470	0730	96
08/17/2010	25.720	1830	25.029	24.360	0745	96
08/18/2010	25.600	1645	24.991	24.330	0745	96
08/19/2010	26.430	1745	25.477	24.570	0745	96
08/20/2010	26.180	0015	25.745	25.340	0830	96
08/21/2010	25.550	1445	25.133	24.600	0845	96
08/22/2010	25.210	0015	24.609	24.260	2400	96
08/23/2010	24.220	0015	23.522	22.880	2400	96
08/24/2010	22.860	1300	22.691	22.280	2345	96
08/25/2010	22.260	0015	21.617	21.320	2400	96
08/26/2010	22.480	1830	21.677	20.980	0715	96
08/27/2010	22.790	1715	22.062	21.530	0745	96
08/28/2010	23.410	1800	22.466	21.720	0730	96
08/29/2010	24.290	1830	23.208	22.230	0700	96
08/30/2010	24.890	1830	23.861	22.880	0730	96
08/31/2010	25.850	1900	24.762	23.810	0730	96

AVERAGE	25.560	24.867	24.237
STD DEV.:	1.522	1.529	1.539

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR August 2010

STATION: S4

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
08/01/2010	31.590	1600	30.305	29.380	0630	96
08/02/2010	32.180	2045	30.589	28.850	1045	96
08/03/2010	32.540	2315	31.191	29.710	0700	96
08/04/2010	33.760	1730	32.202	30.670	0500	96
08/05/2010	33.490	1515	32.427	31.120	1245	96
08/06/2010	32.790	0015	31.589	30.090	2230	96
08/07/2010	30.950	0045	29.858	28.920	1200	96
08/08/2010	31.910	2045	30.241	29.100	1045	96
08/09/2010	34.580	1400	32.215	29.970	1600	96
08/10/2010	33.220	1545	31.468	29.000	2245	96
08/11/2010	29.650	0015	28.392	27.250	2400	96
08/12/2010	27.780	2400	27.144	26.810	0800	96
08/13/2010	33.060	1900	29.706	27.730	0015	96
08/14/2010	31.840	1930	30.948	29.780	0630	96
08/15/2010	31.410	0045	30.243	29.700	0830	96
08/16/2010	30.790	2015	29.888	29.260	1015	96
08/17/2010	33.900	1700	31.530	28.480	1115	96
08/18/2010	32.150	0015	30.855	28.870	1115	96
08/19/2010	32.470	2030	30.596	29.130	2230	96
08/20/2010	31.730	0315	30.284	29.390	1930	96
08/21/2010	31.340	1945	30.057	28.180	0600	96
08/22/2010	31.230	0045	29.966	28.860	2215	96
08/23/2010	29.600	0515	28.807	27.860	2330	96
08/24/2010	28.200	0145	27.420	26.620	1345	96
08/25/2010	27.560	0115	26.825	25.480	1930	96
08/26/2010	27.600	2130	26.688	25.610	1430	96
08/27/2010	27.540	0145	26.451	25.420	1915	96
08/28/2010	28.360	1545	26.763	24.860	0715	96
08/29/2010	28.660	1545	27.723	26.290	0515	96
08/30/2010	30.400	1415	28.868	26.890	2245	96
08/31/2010	32.650	1445	29.840	27.300	0315	96
AVERAGE	31.127		29.712	28.277		
STD DEV.:	2.080		1.767	1.645		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR September 2010

STATION: Zero

PARAMETER: Dissolved Oxygen (MG/L)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
09/01/2010	6.91	0900	6.25	5.88	0045	96
09/02/2010	6.37	1115	6.02	5.74	1730	96
09/03/2010	6.61	0830	6.08	5.69	0645	96
09/04/2010	6.38	1700	6.10	5.78	0415	96
09/05/2010	6.57	1015	6.23	6.02	0245	96
09/06/2010	6.57	1645	6.32	6.17	0115	96
09/07/2010	6.93	0945	6.46	6.20	1930	96
09/08/2010	6.45	0515	6.23	6.01	2200	96
09/09/2010	6.54	1330	6.31	6.12	2300	96
09/10/2010	7.23	1045	6.84	6.20	0315	96
09/11/2010	7.21	0930	6.90	6.55	2315	96
09/12/2010	6.83	0945	6.63	6.42	1715	96
09/13/2010	7.25	1315	6.81	6.50	0330	96
09/14/2010	7.37	0930	7.25	7.04	1900	96
09/15/2010	7.43	1330	7.24	6.84	2015	96
09/16/2010	7.62	1145	7.26	6.88	1915	96
09/17/2010	7.26	0915	7.06	6.75	2345	96
09/18/2010	7.50	1100	7.04	6.76	0230	96
09/19/2010	7.16	0745	6.70	6.25	2245	96
09/20/2010	7.58	1000	7.07	6.50	0030	96
09/21/2010	7.71	2400	7.24	6.89	1200	96
09/22/2010	7.88	0130	6.99	6.77	2230	96
09/23/2010	7.17	0815	6.91	6.76	2100	96
09/24/2010	8.15	1000	7.38	6.86	0200	96
09/25/2010	7.87	1700	7.02	6.75	0545	96
09/26/2010	7.33	0100	6.92	6.80	1015	96
09/27/2010	7.78	1315	7.05	6.86	0830	96
09/28/2010	7.37	1130	7.10	6.86	1745	96
09/29/2010	7.35	1515	7.11	6.85	1745	96
09/30/2010	7.59	0815	7.31	6.91	0730	96
AVERAGE	7.199		6.794	6.487		
STD DEV.:	0.489		0.422	0.411		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM  
MONTHLY SUMMARY REPORT FOR September 2010

STATION: Zero

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
09/01/2010	7.240	1330	7.072	6.941	0300	96
09/02/2010	7.260	1345	7.069	6.896	0300	96
09/03/2010	7.480	1100	7.273	6.942	0200	88
09/04/2010	7.440	1330	7.314	7.230	0800	96
09/05/2010	7.470	1145	7.329	7.180	2200	96
09/06/2010	7.360	0915	7.252	7.160	0515	96
09/07/2010	7.400	2130	7.292	7.200	0215	96
09/08/2010	7.370	0815	7.319	7.230	2330	96
09/09/2010	7.390	1130	7.323	7.250	0045	96
09/10/2010	7.440	1215	7.353	7.270	0330	96
09/11/2010	7.440	1215	7.353	7.290	1645	96
09/12/2010	7.470	1515	7.357	7.270	1945	96
09/13/2010	7.450	1500	7.340	7.250	2145	96
09/14/2010	7.420	1215	7.317	7.230	0030	96
09/15/2010	7.450	1700	7.344	7.260	2315	96
09/16/2010	7.470	1730	7.339	7.240	0115	96
09/17/2010	7.350	1200	7.271	7.220	0115	96
09/18/2010	7.370	1215	7.278	7.210	2200	96
09/19/2010	7.400	1300	7.279	7.180	0515	96
09/20/2010	7.400	1315	7.276	7.200	0715	96
09/21/2010	7.420	1200	7.254	7.120	1845	96
09/22/2010	7.440	1015	7.309	7.210	0015	96
09/23/2010	7.410	1130	7.283	7.200	0815	96
09/24/2010	7.420	1430	7.288	7.190	0830	96
09/25/2010	7.410	1145	7.301	7.220	0545	96
09/26/2010	7.360	0845	7.306	7.220	0030	96
09/27/2010	7.360	1200	7.323	7.270	0545	96
09/28/2010	7.440	1445	7.357	7.280	0100	96
09/29/2010	7.440	1245	7.317	7.210	0800	96
09/30/2010	7.310	0100	7.082	6.943	1815	96
AVERAGE	7.403		7.286	7.184		
STD DEV.:	0.059		0.078	0.108		



PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR September 2010

STATION: Zero

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
09/01/2010	38.670	1915	36.794	34.670	0715	96
09/02/2010	39.500	1545	37.692	35.920	0700	96
09/03/2010	39.270	1445	38.379	36.850	0715	96
09/04/2010	38.670	0330	36.248	33.710	2400	96
09/05/2010	33.640	0015	33.088	32.290	2400	96
09/06/2010	33.510	2245	32.591	31.640	0715	96
09/07/2010	36.680	1845	34.323	32.610	0430	96
09/08/2010	36.130	1230	34.612	32.460	2400	96
09/09/2010	32.400	0015	31.338	30.380	2400	96
09/10/2010	30.490	0215	29.916	29.530	0845	96
09/11/2010	31.830	1530	30.587	29.190	0700	96
09/12/2010	31.470	1630	30.257	29.190	2045	96
09/13/2010	31.690	1745	30.273	29.060	0800	96
09/14/2010	30.270	1845	29.226	28.410	2315	96
09/15/2010	29.100	1630	28.581	27.590	2400	96
09/16/2010	30.980	1800	28.505	26.870	0315	96
09/17/2010	29.540	0015	28.572	27.870	1915	96
09/18/2010	28.430	1715	27.747	27.040	0700	96
09/19/2010	30.130	2245	28.063	26.750	0730	96
09/20/2010	29.040	0015	28.136	27.200	0815	96
09/21/2010	27.400	1315	25.642	21.730	2400	96
09/22/2010	24.400	2400	22.606	20.860	0600	96
09/23/2010	25.670	0500	25.036	24.350	2400	96
09/24/2010	27.840	2400	25.878	24.030	0645	96
09/25/2010	28.700	1200	27.807	26.380	2400	96
09/26/2010	26.290	0015	25.435	24.550	2330	96
09/27/2010	24.740	2145	24.518	24.250	0830	96
09/28/2010	27.020	1845	25.748	24.540	0300	96
09/29/2010	26.470	0015	24.938	23.050	2345	96
09/30/2010	23.010	0015	22.082	21.410	2145	96
AVERAGE	30.766		29.487	28.146		
STD DEV.:	4.591		4.401	4.295		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR September 2010

STATION: N5

PARAMETER: Dissolved Oxygen (MG/L)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
09/01/2010	8.72	1730	7.98	7.23	0545	96
09/02/2010	8.79	1700	8.13	7.38	1145	96
09/03/2010	8.27	1930	7.98	7.64	0800	96
09/04/2010	8.64	1715	7.94	6.72	0330	96
09/05/2010	8.74	1845	8.19	7.65	0745	96
09/06/2010	8.72	1600	8.30	7.91	0800	96
09/07/2010	8.49	0030	8.12	7.85	0930	96
09/08/2010	8.76	1630	8.18	7.64	0830	96
09/09/2010	9.01	1915	8.55	8.00	0645	96
09/10/2010	8.87	0215	8.50	7.55	2400	96
09/11/2010	8.68	1800	8.18	7.56	1045	96
09/12/2010	8.59	1800	8.04	7.57	1130	96
09/13/2010	8.70	1315	8.11	7.79	0815	96
09/14/2010	8.69	1915	8.28	7.98	0500	96
09/15/2010	8.88	1845	8.44	7.89	0045	96
09/16/2010	9.17	1730	8.76	7.82	0700	96
09/17/2010	9.27	0345	9.14	9.04	0130	96
09/18/2010	9.18	1615	9.12	9.03	0700	96
09/19/2010	9.23	2300	9.12	9.00	0330	96
09/20/2010	9.30	0030	8.96	8.48	2400	96
09/21/2010	8.64	2345	8.23	7.55	2100	74
09/22/2010	9.35	2130	8.69	8.03	0500	96
09/23/2010	9.37	0145	8.75	8.10	0415	96
09/24/2010	9.13	1600	8.62	7.87	0845	96
09/25/2010	9.12	1715	8.57	7.82	0315	96
09/26/2010	9.17	0130	8.34	7.80	2200	96
09/27/2010	9.01	2330	8.23	7.80	0515	96
09/28/2010	8.90	0245	8.15	7.80	1215	96
09/29/2010	9.06	1645	8.42	7.78	0045	96
09/30/2010	9.68	1515	9.10	8.65	0345	96
AVERAGE	8.938		8.437	7.898		
STD DEV.:	0.312		0.372	0.512		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR September 2010

STATION: N5

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
09/01/2010	7.290	2300	7.145	6.987	0915	96
09/02/2010	7.310	2345	7.196	7.040	0815	96
09/03/2010	7.370	1445	7.230	7.060	0945	96
09/04/2010	7.410	1930	7.218	6.923	0930	96
09/05/2010	7.280	1745	7.143	7.030	1315	96
09/06/2010	7.430	1800	7.188	7.000	0700	96
09/07/2010	7.430	1830	7.205	7.020	0730	96
09/08/2010	7.240	0015	7.139	7.050	0400	96
09/09/2010	7.210	1900	7.106	7.000	0945	96
09/10/2010	7.470	2215	7.189	7.000	0730	96
09/11/2010	7.470	1300	7.244	7.090	0245	96
09/12/2010	7.400	1330	7.211	7.060	1545	96
09/13/2010	7.310	1730	7.171	7.070	0545	96
09/14/2010	7.330	2345	7.135	7.010	0800	96
09/15/2010	7.360	0045	7.189	7.040	1015	96
09/16/2010	7.470	1530	7.250	7.010	0900	96
09/17/2010	7.340	2000	7.178	6.991	1000	96
09/18/2010	7.230	1600	7.103	7.020	0615	96
09/19/2010	7.250	1700	7.136	7.030	0715	96
09/20/2010	7.320	2115	7.150	6.959	1345	96
09/21/2010	7.310	0015	7.164	7.060	0615	76
09/22/2010	7.370	2300	7.264	7.140	0015	96
09/23/2010	7.390	2030	7.260	7.060	1045	96
09/24/2010	7.360	0130	7.229	7.100	0815	96
09/25/2010	7.400	0315	7.161	7.010	1645	96
09/26/2010	7.290	0545	7.177	7.050	1015	96
09/27/2010	7.220	0115	7.120	7.030	0630	96
09/28/2010	7.160	0315	7.062	6.990	1300	96
09/29/2010	7.060	0300	6.975	6.875	1030	96
09/30/2010	6.990	0015	6.876	6.785	0715	96
AVERAGE	7.316		7.160	7.016		
STD DEV.:	0.113		0.081	0.067		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR September 2010

STATION: N10

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
09/01/2010	26.800	1945	25.759	24.850	0800	96
09/02/2010	27.520	1830	26.565	25.690	0745	96
09/03/2010	27.200	0015	26.863	26.260	1100	96
09/04/2010	26.900	0015	26.616	26.020	2400	96
09/05/2010	25.990	0015	25.148	24.450	2400	96
09/06/2010	24.730	1900	24.232	23.760	0830	96
09/07/2010	24.330	1530	23.759	23.170	1045	96
09/08/2010	23.780	0015	23.446	23.140	0730	96
09/09/2010	23.210	0015	22.500	22.060	2400	96
09/10/2010	22.020	0015	21.564	21.200	0845	96
09/11/2010	22.460	1815	21.616	21.000	0645	96
09/12/2010	21.830	0015	20.982	20.700	2400	96
09/13/2010	20.700	0030	20.297	20.040	2400	96
09/14/2010	20.600	1830	20.133	19.810	0730	96
09/15/2010	20.140	0015	19.561	19.200	2345	96
09/16/2010	19.580	2030	19.072	18.590	1115	96
09/17/2010	19.330	1700	19.148	19.000	0500	96
09/18/2010	19.410	1845	19.032	18.690	0815	96
09/19/2010	19.440	1845	19.035	18.690	0745	96
09/20/2010	19.820	1700	19.213	18.760	0715	96
09/21/2010	19.490	1830	18.893	18.350	0845	96
09/22/2010	19.670	1800	19.070	18.530	0800	96
09/23/2010	19.740	1815	19.186	18.560	0800	96
09/24/2010	20.490	1630	19.605	18.970	0645	96
09/25/2010	21.260	1945	20.497	19.930	0630	96
09/26/2010	20.890	0015	20.302	19.980	2400	96
09/27/2010	19.950	0015	19.657	19.480	1015	96
09/28/2010	19.880	1945	19.640	19.420	0915	96
09/29/2010	20.250	1645	19.746	18.610	0915	94
09/30/2010	20.100	1715	19.650	19.230	0615	96
AVERAGE	21.917		21.360	20.871		
STD DEV.:	2.706		2.642	2.555		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR September 2010

STATION: S4

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
09/01/2010	33.060	1645	30.620	28.330	0215	96
09/02/2010	35.580	1700	32.387	29.740	1115	96
09/03/2010	35.030	1915	33.428	30.810	0830	96
09/04/2010	34.100	0130	32.623	30.340	2400	96
09/05/2010	31.100	1515	29.826	28.710	2230	96
09/06/2010	30.230	1845	28.997	27.880	1015	96
09/07/2010	31.780	2045	29.599	28.060	1115	96
09/08/2010	32.710	1515	31.072	29.760	2345	96
09/09/2010	30.050	0030	27.968	26.610	2315	96
09/10/2010	26.860	0430	26.038	25.320	1845	96
09/11/2010	28.540	1515	26.470	24.920	1030	96
09/12/2010	27.790	1700	26.545	24.760	1345	96
09/13/2010	27.400	2115	26.080	25.070	1015	96
09/14/2010	26.770	1545	25.836	24.870	1945	96
09/15/2010	25.450	1145	24.726	23.860	2300	96
09/16/2010	26.170	1930	24.498	22.080	0730	96
09/17/2010	26.240	0030	25.026	23.800	2300	96
09/18/2010	25.120	2145	24.421	23.580	0915	96
09/19/2010	25.850	2245	24.091	22.930	1200	96
09/20/2010	25.540	0015	23.824	22.210	1930	96
09/21/2010	25.000	1430	23.633	21.350	2345	96
09/22/2010	22.110	1645	20.726	19.820	0830	96
09/23/2010	20.730	0900	20.151	19.570	1145	96
09/24/2010	22.730	2215	21.061	19.740	0845	96
09/25/2010	24.810	1415	22.549	21.540	1100	96
09/26/2010	22.190	0245	21.252	20.570	1600	96
09/27/2010	20.740	0015	20.292	19.770	1900	96
09/28/2010	21.490	1430	20.714	20.000	0715	96
09/29/2010	21.460	0015	20.263	18.930	1030	96
09/30/2010	20.440	2030	19.953	19.450	0915	96
AVERAGE	26.902		25.489	24.146		
STD DEV.:	4.501		4.120	3.737		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR   October 2010

STATION: Zero

PARAMETER: Dissolved Oxygen (MG/L)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
10/01/2010	8.32	0915	7.25	7.00	1215	96
10/02/2010	7.87	0945	7.35	6.96	2200	96
10/03/2010	7.15	1645	6.93	6.76	2245	96
10/04/2010	7.79	1600	7.20	6.68	1000	96
10/05/2010	7.77	0945	7.40	6.94	1430	96
10/06/2010	7.83	1245	7.17	6.92	1000	96
10/07/2010	8.51	1515	7.36	6.89	0230	96
10/08/2010	8.78	1530	7.72	6.87	0300	96
10/09/2010	9.03	1145	8.10	7.09	0115	96
10/10/2010	8.76	1400	7.84	7.02	0800	96
10/11/2010	9.23	0630	8.11	7.38	0915	96
10/12/2010	10.03	1515	8.38	7.22	1000	96
10/13/2010	10.12	1745	9.15	7.66	0530	96
10/14/2010	10.27	2245	9.55	8.58	2315	96
10/15/2010	10.21	1115	9.65	8.53	0130	96
10/16/2010	11.19	2045	10.44	9.67	0015	96
10/17/2010	11.28	1645	10.65	9.96	2300	96
10/18/2010	11.26	1615	10.49	9.84	1345	96
10/19/2010	11.16	1545	10.61	9.48	1100	96
10/20/2010	11.62	1345	10.55	9.49	0515	96
10/21/2010	11.20	1000	10.04	8.83	1630	96
10/22/2010	11.26	0130	10.01	8.23	2300	96
10/23/2010	10.56	1245	9.41	8.18	0500	96
10/24/2010	10.58	2315	9.41	8.45	1215	96
10/25/2010	11.15	1200	10.57	10.21	0245	96
10/26/2010	11.40	1530	10.84	10.23	0045	96
10/27/2010	10.75	0300	9.38	8.23	2230	96
10/28/2010	8.74	0230	8.22	7.60	1515	96
10/29/2010	8.52	1215	8.00	7.68	1300	96
10/30/2010	9.37	1715	8.45	7.70	0515	96
10/31/2010	9.85	1230	9.27	8.68	0330	96
AVERAGE	9.728		8.887	8.095		
STD DEV.:	1.354		1.287	1.148		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM  
MONTHLY SUMMARY REPORT FOR October 2010

STATION: Zero

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
10/01/2010	7.020	0745	6.967	6.900	0915	96
10/02/2010	7.110	1500	7.041	6.957	0015	96
10/03/2010	6.995	0015	6.883	6.822	1000	96
10/04/2010	6.870	0015	6.807	6.722	2300	96
10/05/2010	6.757	0515	6.727	6.679	2345	96
10/06/2010	6.708	0030	6.678	6.653	0815	96
10/07/2010	6.672	0030	6.642	6.583	1200	96
10/08/2010	6.850	1445	6.735	6.593	1000	96
10/09/2010	6.916	2100	6.848	6.780	0730	96
10/10/2010	6.952	0445	6.912	6.878	2145	96
10/11/2010	6.958	1530	6.910	6.768	0645	96
10/12/2010	6.999	2345	6.932	6.883	0045	96
10/13/2010	7.150	1300	7.072	6.986	0030	96
10/14/2010	7.160	2330	7.077	6.992	0745	96
10/15/2010	7.340	1515	7.236	7.090	0015	96
10/16/2010	7.280	0015	7.231	7.170	2400	96
10/17/2010	7.320	1915	7.274	7.150	0100	96
10/18/2010	7.310	0015	7.118	6.956	2400	96
10/19/2010	6.958	0015	6.918	6.841	0845	96
10/20/2010	6.922	0215	6.860	6.800	1715	96
10/21/2010	6.838	1715	6.795	6.700	1230	96
10/22/2010	6.837	2400	6.778	6.659	0730	96
10/23/2010	6.886	2000	6.846	6.785	0800	96
10/24/2010	6.886	0015	6.790	6.644	2245	96
10/25/2010	6.744	2330	6.669	6.590	1245	96
10/26/2010	6.785	2330	6.722	6.634	1045	96
10/27/2010	6.821	0200	6.718	6.642	2400	96
10/28/2010	6.650	0615	6.602	6.527	1145	96
10/29/2010	6.804	1300	6.679	6.543	0915	96
10/30/2010	6.946	2015	6.837	6.673	0500	96
10/31/2010	6.987	2345	6.927	6.879	1245	96

AVERAGE	6.949	6.878	6.790
STD DEV.:	0.189	0.180	0.176

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR October 2010

STATION: Zero

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
10/01/2010	21.600	0745	21.109	20.500	1915	96
10/02/2010	23.600	1300	21.986	20.500	0615	96
10/03/2010	20.570	0015	19.551	19.030	0830	96
10/04/2010	19.050	0015	18.693	18.340	0730	96
10/05/2010	18.830	1415	18.418	17.790	2300	96
10/06/2010	18.040	0100	17.464	16.930	2400	96
10/07/2010	17.380	1315	16.901	16.540	2400	96
10/08/2010	18.780	1530	17.117	15.790	0700	96
10/09/2010	17.320	0015	16.521	15.640	2400	96
10/10/2010	17.470	1515	15.977	14.830	0730	96
10/11/2010	16.330	1545	15.599	14.490	0630	96
10/12/2010	16.220	1430	15.394	14.690	0745	96
10/13/2010	16.680	1700	15.119	13.910	0715	96
10/14/2010	15.600	1330	14.764	13.840	0900	96
10/15/2010	14.340	0015	13.452	12.750	2400	96
10/16/2010	12.730	0015	12.237	11.880	2400	96
10/17/2010	13.810	1530	12.653	11.520	0400	96
10/18/2010	13.430	1430	12.863	12.300	2400	96
10/19/2010	13.160	1500	12.285	11.540	0800	96
10/20/2010	13.120	1430	11.925	11.290	2400	96
10/21/2010	11.640	1530	11.105	10.700	0730	96
10/22/2010	11.880	1330	11.263	9.850	0915	96
10/23/2010	11.820	1945	11.314	10.680	0800	96
10/24/2010	11.500	1545	11.269	10.970	0615	96
10/25/2010	11.590	0500	10.908	10.550	2030	96
10/26/2010	17.580	2400	12.393	10.620	0015	96
10/27/2010	24.610	2015	22.095	17.500	0530	96
10/28/2010	24.590	0030	22.617	20.220	1130	96
10/29/2010	25.650	1600	23.558	21.640	2400	96
10/30/2010	21.510	0015	15.538	13.920	2400	96
10/31/2010	13.890	0015	13.112	12.340	2400	96

AVERAGE	16.914		15.652	14.616	
STD DEV.:	4.214		3.828	3.492	



PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR    October 2010

STATION: N5

PARAMETER: Dissolved Oxygen (MG/L)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
10/01/2010	9.98	0900	9.34	8.81	0030	96
10/02/2010	11.00	2345	10.46	9.52	0115	96
10/03/2010	11.28	2245	11.04	10.62	1915	96
10/04/2010	11.31	0145	10.72	9.86	2145	96
10/05/2010	10.09	0015	9.89	9.70	0100	96
10/06/2010	9.98	2230	9.83	9.51	0815	96
10/07/2010	9.98	0145	9.49	8.78	2130	96
10/08/2010	9.92	1430	9.30	8.52	2400	96
10/09/2010	10.22	1400	9.65	8.90	0100	96
10/10/2010	10.20	1900	9.34	8.92	0315	49
10/11/2010	10.21	1445	9.47	8.19	0715	96
10/12/2010	10.21	1545	9.51	8.52	0430	96
10/13/2010	10.11	1700	9.56	8.90	0300	96
10/14/2010	10.26	1500	9.39	7.97	0830	96
10/15/2010	10.63	1130	10.01	9.08	0230	96
10/16/2010	11.08	2130	10.58	10.13	0015	96
10/17/2010	11.57	1830	11.30	10.88	0015	96
10/18/2010	11.56	1015	10.94	10.40	2345	96
10/19/2010	11.68	1330	10.63	10.15	0845	90
10/20/2010	10.76	0900	10.47	10.13	1830	96
10/21/2010	10.54	0545	10.17	9.47	2200	96
10/22/2010	10.40	1000	9.72	8.84	2130	96
10/23/2010	10.12	1300	9.65	8.81	0245	96
10/24/2010	9.94	2400	9.27	8.63	2315	96
10/25/2010	10.76	1515	9.97	9.58	0945	96
10/26/2010	11.13	1430	10.75	9.63	0115	96
10/27/2010	11.18	1645	11.01	10.81	1900	96
10/28/2010	11.07	0930	10.96	10.69	0230	96
10/29/2010	11.26	1045	10.98	10.68	0900	96
10/30/2010	10.85	0230	10.37	9.73	1745	96
10/31/2010	10.45	1630	10.10	9.37	0900	96
AVERAGE	10.636		10.124	9.475		
STD DEV.:	0.557		0.635	0.813		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR October 2010

STATION: N5

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
10/01/2010	7.110	1130	6.890	6.692	0845	96
10/02/2010	6.948	0115	6.831	6.636	2345	96
10/03/2010	6.643	0015	6.569	6.524	2315	96
10/04/2010	6.725	1715	6.623	6.517	0045	96
10/05/2010	6.794	1930	6.735	6.687	0115	96
10/06/2010	6.824	2245	6.776	6.737	0515	96
10/07/2010	6.893	2130	6.798	6.726	1415	96
10/08/2010	6.967	1845	6.859	6.789	0100	96
10/09/2010	6.982	2145	6.890	6.803	0830	96
10/10/2010	7.030	1945	6.967	6.912	0545	49
10/11/2010	7.170	1845	7.064	6.946	0030	96
10/12/2010	7.190	1400	7.077	6.972	0830	96
10/13/2010	7.210	1530	7.119	7.020	1045	96
10/14/2010	7.260	1900	7.182	7.130	0115	96
10/15/2010	7.290	1500	7.191	7.110	0700	96
10/16/2010	7.180	0045	7.109	7.040	1015	96
10/17/2010	7.120	0930	7.017	6.880	2300	96
10/18/2010	6.936	0900	6.866	6.829	1345	96
10/19/2010	6.892	0030	6.840	6.788	1230	91
10/20/2010	6.915	2000	6.865	6.812	0015	96
10/21/2010	6.974	2200	6.903	6.852	0045	96
10/22/2010	7.020	2130	6.926	6.857	1015	96
10/23/2010	7.060	2100	6.978	6.912	0400	96
10/24/2010	7.050	0230	7.003	6.950	2400	96
10/25/2010	7.010	1600	6.979	6.936	0145	96
10/26/2010	7.020	0115	6.969	6.927	0630	96
10/27/2010	6.984	0630	6.949	6.880	1800	72
10/28/2010	6.700	1300	6.700	6.700	1300	1
10/29/2010	7.030	1545	6.993	6.967	2015	56
10/30/2010	7.060	1345	7.003	6.949	0730	96
10/31/2010	7.020	0045	6.967	6.908	1200	96
AVERAGE	7.000		6.924	6.851		
STD DEV.:	0.157		0.149	0.150		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR October 2010

STATION: N10

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
10/01/2010	19.960	0015	19.489	18.960	2400	96
10/02/2010	18.910	0015	17.217	15.900	2100	35
10/03/2010	16.470	1800	15.433	13.880	0500	24
10/04/2010	16.500	0500	15.253	15.010	2030	56
10/05/2010	15.290	1645	15.088	14.930	0745	96
10/06/2010	15.030	0015	14.843	14.620	2315	96
10/07/2010	14.620	0015	14.520	14.380	2400	96
10/08/2010	14.840	1715	14.502	14.120	0545	96
10/09/2010	14.700	0015	14.539	14.300	2400	96
10/10/2010	14.310	0015	14.005	13.770	0915	96
10/11/2010	14.020	1645	13.752	13.090	0730	96
10/12/2010	13.870	1430	13.566	13.240	2400	96
10/13/2010	13.350	1600	13.091	12.820	2400	96
10/14/2010	13.180	1445	12.770	11.690	0830	96
10/15/2010	12.870	0015	12.478	12.000	2400	96
10/16/2010	11.990	0015	11.303	10.870	2400	96
10/17/2010	10.830	0015	10.236	10.070	1100	96
10/18/2010	10.210	0015	9.919	9.790	1215	96
10/19/2010	10.130	0230	9.735	9.460	2200	96
10/20/2010	9.720	1500	9.576	9.420	0845	96
10/21/2010	9.610	0445	9.393	9.240	2400	96
10/22/2010	9.230	0015	8.918	8.440	0845	96
10/23/2010	8.470	0015	8.374	8.290	2330	96
10/24/2010	8.370	1100	8.298	8.200	2400	96
10/25/2010	8.290	1530	8.189	8.100	0800	96
10/26/2010	9.400	2215	8.791	8.290	0015	96
10/27/2010	9.790	1800	9.631	9.420	0015	96
10/28/2010	10.040	2345	9.820	9.620	0800	96
10/29/2010	10.510	2330	10.339	10.060	0015	96
10/30/2010	10.610	1245	10.509	10.400	2030	96
10/31/2010	10.480	0100	10.244	9.760	2400	96
AVERAGE	12.439		12.059	11.682		
STD DEV.:	3.122		2.939	2.797		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR October 2010

STATION: S4

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
10/01/2010	20.390	0015	19.532	18.900	1830	96
10/02/2010	19.130	0300	17.847	16.700	2400	96
10/03/2010	16.880	1515	16.591	16.180	0600	96
10/04/2010	16.580	0015	15.803	15.070	2145	96
10/05/2010	15.510	1045	15.229	15.070	2300	96
10/06/2010	15.190	0015	14.838	14.680	1045	96
10/07/2010	14.900	1215	14.651	14.320	2400	96
10/08/2010	15.140	1345	14.497	14.140	0330	96
10/09/2010	14.810	1345	14.499	14.230	2400	96
10/10/2010	14.320	1400	13.888	13.660	1000	96
10/11/2010	14.280	1545	13.803	13.430	2300	96
10/12/2010	13.910	1400	13.566	13.350	0600	96
10/13/2010	13.590	1500	13.191	12.810	0545	96
10/14/2010	13.190	1900	12.774	12.250	0745	96
10/15/2010	12.980	0015	12.410	12.030	2215	96
10/16/2010	12.060	0015	11.349	10.880	2400	96
10/17/2010	10.840	0015	10.209	10.070	1015	96
10/18/2010	10.290	0345	9.923	9.760	1715	96
10/19/2010	10.200	0215	9.725	9.450	2245	96
10/20/2010	9.680	2300	9.526	9.420	0700	96
10/21/2010	9.780	0030	9.301	9.100	1115	96
10/22/2010	9.200	0015	8.767	8.530	1800	96
10/23/2010	8.620	0230	8.369	8.060	2400	96
10/24/2010	8.130	1500	8.032	7.890	0330	96
10/25/2010	8.490	0700	8.318	8.110	0015	96
10/26/2010	10.150	2400	9.128	8.190	0045	96
10/27/2010	11.600	1500	10.866	10.190	0015	96
10/28/2010	11.390	1730	11.102	10.500	0745	96
10/29/2010	11.970	1545	11.590	11.180	2330	96
10/30/2010	11.160	0015	10.688	10.410	1845	96
10/31/2010	10.450	0015	10.125	9.800	2315	96
AVERAGE	12.736		12.262	11.883		
STD DEV.:	3.101		2.994	2.911		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR November 2010

STATION: Zero

PARAMETER: Dissolved Oxygen (MG/L)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
11/01/2010	9.82	0300	8.93	8.23	1115	96
11/02/2010	9.50	1045	8.95	8.30	0345	96
11/03/2010	10.54	1600	9.29	8.69	0045	96
11/04/2010	11.32	1630	9.27	8.51	1300	96
11/05/2010	10.70	1345	9.76	8.82	0100	96
11/06/2010	11.84	1315	10.94	9.68	0030	96
11/07/2010	11.95	1815	11.04	10.09	0930	96
11/08/2010	11.92	0615	11.24	9.76	2330	96
11/09/2010	10.40	1100	9.31	8.42	2400	96
11/10/2010	9.05	1945	8.46	7.92	0145	96
11/11/2010	9.84	1345	8.79	8.54	2100	96
11/12/2010	9.34	2030	9.07	8.75	0645	96
11/13/2010	9.38	1600	9.16	8.95	1330	96
11/14/2010	9.91	1800	9.27	8.80	0245	96
11/15/2010	9.82	0145	8.86	7.91	2345	96
11/16/2010	8.31	1100	8.01	7.70	0530	96
11/17/2010	8.78	1430	8.16	7.44	0945	96
11/18/2010	8.89	0415	8.58	8.28	0630	96
11/19/2010	9.42	2345	9.13	8.65	0015	96
11/20/2010	9.60	0030	9.26	8.75	1915	96
11/21/2010	9.33	0030	8.77	8.38	2230	96
11/22/2010	9.14	1045	8.49	8.16	1145	96
11/23/2010	8.98	0845	8.46	8.28	0645	96
11/24/2010	9.18	0215	9.01	8.35	2400	96
11/25/2010	9.06	1100	8.50	8.11	2000	96
11/26/2010	8.83	1645	8.51	8.34	0815	96
11/27/2010	9.33	1630	8.79	8.37	0115	96
11/28/2010	9.49	2345	8.79	8.20	0445	93
11/29/2010	10.79	1400	10.32	9.52	0015	96
11/30/2010	10.95	1345	10.65	10.41	0230	96
AVERAGE	9.847		9.193	8.610		
STD DEV.:	0.989		0.846	0.683		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM  
MONTHLY SUMMARY REPORT FOR November 2010

STATION: Zero

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
11/01/2010	7.010	0615	6.969	6.900	0915	96
11/02/2010	7.050	1300	6.984	6.868	0845	96
11/03/2010	7.030	0330	6.958	6.897	1600	96
11/04/2010	6.992	2400	6.957	6.925	1515	96
11/05/2010	7.210	1000	7.006	6.855	2145	96
11/06/2010	7.140	0900	6.954	6.814	2230	96
11/07/2010	6.966	2400	6.830	6.753	1300	96
11/08/2010	7.140	0800	7.066	6.846	2400	96
11/09/2010	6.841	0015	6.690	6.625	2215	96
11/10/2010	6.700	1145	6.653	6.600	0330	76
11/12/2010	6.700	1030	6.700	6.700	1030	1
11/15/2010	6.739	1530	6.699	6.643	1200	55
11/16/2010	6.708	1215	6.686	6.628	1400	96
11/17/2010	6.856	2345	6.733	6.647	1500	96
11/18/2010	7.000	1200	6.828	6.702	1300	96
11/19/2010	6.881	1700	6.843	6.814	1145	96
11/20/2010	6.833	0030	6.731	6.644	2400	96
11/21/2010	6.666	0515	6.612	6.545	2300	96
11/22/2010	6.638	1045	6.555	6.526	2215	96
11/23/2010	6.583	2115	6.557	6.524	1100	96
11/24/2010	6.638	1115	6.594	6.565	0145	45
11/26/2010	6.792	0930	6.714	6.623	1000	60
11/27/2010	6.747	2345	6.712	6.660	0945	96
11/28/2010	6.748	0215	6.704	6.542	0800	80
11/29/2010	6.854	0745	6.782	6.704	1545	96
11/30/2010	6.786	0015	6.729	6.684	1415	96
AVERAGE	6.856		6.779	6.701		
STD DEV.:	0.174		0.147	0.126		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR November 2010

STATION: Zero

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
11/01/2010	12.350	0115	11.967	11.510	0900	96
11/02/2010	11.720	0015	11.423	11.050	1600	96
11/03/2010	11.770	1645	11.088	10.620	0700	96
11/04/2010	10.760	0015	10.313	9.710	1630	96
11/05/2010	11.490	1500	10.570	9.270	0945	96
11/06/2010	10.150	0100	9.493	9.130	1830	96
11/07/2010	10.220	1515	9.776	9.240	1915	96
11/08/2010	12.790	2400	9.985	9.560	2000	96
11/09/2010	18.160	2400	15.978	13.080	0015	96
11/10/2010	19.190	1615	18.611	18.120	0515	96
11/11/2010	20.010	1345	19.421	18.850	0015	96
11/12/2010	20.000	1500	19.287	18.740	0900	96
11/13/2010	20.100	1500	19.192	18.600	0700	96
11/14/2010	20.000	1400	19.155	18.530	0700	96
11/15/2010	21.690	2400	20.474	19.310	0015	96
11/16/2010	21.700	0045	21.049	20.640	1330	96
11/17/2010	21.040	0130	18.056	15.280	2400	96
11/18/2010	15.210	0015	13.699	12.030	2400	96
11/19/2010	11.950	0015	10.825	9.960	2330	96
11/20/2010	17.040	1700	15.690	10.310	0015	96
11/21/2010	17.530	1545	16.883	16.260	0330	96
11/22/2010	17.600	0800	17.369	17.090	0015	96
11/23/2010	17.910	2115	17.649	17.410	1030	96
11/24/2010	17.750	0015	16.731	15.660	2330	96
11/25/2010	16.510	2400	16.079	15.500	0145	96
11/26/2010	16.670	1500	16.466	16.210	0915	96
11/27/2010	16.540	0345	16.339	15.880	2345	96
11/28/2010	16.710	1930	15.717	12.480	2400	92
11/29/2010	17.820	2400	12.901	10.460	0845	96
11/30/2010	18.210	2115	17.255	16.350	0845	96
AVERAGE	16.353		15.315	14.228		
STD DEV.:	3.624		3.597	3.737		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR November 2010

STATION: N5

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
11/01/2010	7.080	2230	7.013	6.962	1000	96
11/02/2010	7.140	1830	7.083	7.010	1115	96
11/03/2010	7.140	0815	7.092	7.060	1600	96
11/04/2010	7.170	2115	7.125	7.070	0045	96
11/05/2010	7.190	0930	6.969	6.692	2200	96
11/06/2010	6.763	0630	6.730	6.689	0100	96
11/07/2010	6.777	2345	6.729	6.694	0900	96
11/08/2010	6.786	0300	6.744	6.681	2315	96
11/09/2010	6.740	1545	6.703	6.660	0900	96
11/10/2010	6.735	2000	6.709	6.677	1215	96
11/11/2010	6.774	1900	6.732	6.680	0800	96
11/12/2010	6.788	2000	6.762	6.728	1515	96
11/13/2010	6.820	0330	6.774	6.713	1230	96
11/14/2010	6.824	0430	6.766	6.704	1330	96
11/15/2010	6.811	2400	6.766	6.722	1015	96
11/16/2010	6.817	0230	6.767	6.725	2115	96
11/17/2010	6.802	0730	6.746	6.666	2315	96
11/18/2010	6.868	1230	6.714	6.645	0145	96
11/19/2010	6.798	2400	6.733	6.701	1000	96
11/20/2010	6.839	1400	6.785	6.748	2145	96
11/21/2010	6.822	0315	6.779	6.724	0745	96
11/22/2010	6.840	1715	6.782	6.707	1300	96
11/23/2010	6.819	2400	6.787	6.740	1300	96
11/24/2010	6.827	2400	6.768	6.716	0945	96
11/25/2010	6.954	1730	6.891	6.822	1145	96
11/26/2010	6.960	0915	6.819	6.690	2245	96
11/27/2010	6.771	2015	6.719	6.671	2145	96
11/28/2010	6.800	0230	6.757	6.708	1930	96
11/29/2010	6.772	1345	6.726	6.685	1530	96
11/30/2010	6.787	0645	6.662	6.553	1845	78
AVERAGE	6.867		6.804	6.741		
STD DEV.:	0.136		0.124	0.122		



PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR November 2010

STATION: N5

PARAMETER: Dissolved Oxygen (MG/L)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
11/01/2010	10.66	1245	10.18	9.12	0300	96
11/02/2010	10.64	1600	9.84	9.11	0500	96
11/03/2010	10.52	1645	9.74	9.04	0515	96
11/04/2010	11.03	2400	10.19	9.48	0430	96
11/05/2010	11.50	1415	10.51	9.22	0930	96
11/06/2010	11.25	2400	10.84	10.44	0800	96
11/07/2010	11.85	1415	11.61	11.21	0145	96
11/08/2010	11.81	0030	11.22	10.53	1815	96
11/09/2010	11.16	1245	10.89	10.43	0330	96
11/10/2010	11.37	1215	10.82	10.51	2000	96
11/11/2010	10.89	0800	10.53	10.17	2230	96
11/12/2010	10.83	1645	10.27	9.99	2400	96
11/13/2010	10.96	2000	10.29	9.88	0915	96
11/14/2010	11.14	1515	10.45	9.85	2300	96
11/15/2010	10.88	1315	10.24	9.76	0945	96
11/16/2010	10.70	1015	10.03	9.61	1330	96
11/17/2010	10.67	0030	10.27	9.68	1045	96
11/18/2010	11.46	1400	10.99	9.81	0045	96
11/19/2010	11.87	1515	11.55	11.31	0130	96
11/20/2010	11.73	1445	11.51	10.88	2015	96
11/21/2010	11.79	0145	11.21	10.84	2315	96
11/22/2010	12.22	1500	11.30	10.78	0515	96
11/23/2010	11.96	1345	11.16	10.69	1945	96
11/24/2010	12.59	1515	12.26	11.02	0015	96
11/25/2010	12.53	1215	11.91	11.31	0745	96
11/26/2010	12.46	0415	11.74	11.38	1215	96
11/27/2010	12.74	2145	12.03	11.26	0730	96
11/28/2010	12.81	1930	12.09	11.41	0130	96
11/29/2010	13.59	1745	12.94	12.36	0715	96
11/30/2010	13.43	0900	12.58	11.11	1415	78
AVERAGE	11.635		11.040	10.406		
STD DEV.:	0.850		0.846	0.841		



PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR November 2010

STATION: S4

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
11/01/2010	10.250	1315	9.966	9.820	0015	96
11/02/2010	9.920	0015	9.693	8.850	1300	96
11/03/2010	9.630	0015	8.652	7.990	2400	96
11/04/2010	7.960	0015	7.638	7.460	2315	96
11/05/2010	7.760	1645	7.537	7.330	0845	96
11/06/2010	7.560	0430	7.408	7.280	1500	96
11/07/2010	7.320	0015	6.687	6.423	1830	96
11/08/2010	6.978	2400	6.729	6.494	0715	96
11/09/2010	7.750	2200	7.439	6.921	0030	96
11/10/2010	8.510	2215	8.107	7.700	0345	96
11/11/2010	8.430	0215	8.254	8.030	2345	96
11/12/2010	8.140	1745	7.996	7.730	0845	96
11/13/2010	7.960	1315	7.845	7.630	0745	96
11/14/2010	8.190	1345	7.948	7.700	0815	96
11/15/2010	8.590	2315	8.330	8.030	0015	96
11/16/2010	8.870	2400	8.717	8.520	0015	96
11/17/2010	9.180	0215	8.852	8.650	0845	96
11/18/2010	8.680	0015	8.233	7.850	2330	96
11/19/2010	7.850	0115	7.356	6.972	2345	96
11/20/2010	7.560	1530	7.278	6.958	0130	96
11/21/2010	7.270	0030	7.048	6.905	0845	96
11/22/2010	7.370	1215	6.756	6.172	1300	96
11/23/2010	7.050	2300	6.855	6.652	0115	96
11/24/2010	6.970	0200	6.451	5.793	2300	96
11/25/2010	5.843	0115	5.535	5.170	2315	96
11/26/2010	5.533	0130	5.316	4.955	2130	96
11/27/2010	5.293	1300	4.979	4.438	2345	96
11/28/2010	6.045	2045	4.924	4.104	0700	96
11/29/2010	7.310	2215	6.068	4.413	0830	96
11/30/2010	7.810	1645	7.169	6.861	0115	96
AVERAGE	7.786		7.392	6.993		
STD DEV.:	1.187		1.250	1.372		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR December 2010

STATION: Zero

PARAMETER: Dissolved Oxygen (MG/L)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
12/01/2010	11.04	0800	10.64	10.04	2315	96
12/02/2010	10.32	0945	9.16	8.34	2345	96
12/03/2010	8.96	1045	8.51	7.57	0845	96
12/04/2010	8.78	1045	8.59	8.41	0600	96
12/05/2010	8.60	0245	8.39	8.21	2400	96
12/06/2010	8.82	1200	8.45	7.49	0100	96
12/07/2010	8.76	1600	8.59	8.33	2215	96
12/08/2010	8.81	0900	8.58	8.25	0245	96
12/09/2010	9.16	1330	8.84	8.37	0215	96
12/10/2010	9.32	1015	8.87	8.26	0900	96
12/11/2010	9.32	0045	8.97	8.58	2145	96
12/12/2010	8.82	1530	8.59	8.24	0800	96
12/13/2010	9.13	1200	8.66	8.25	0300	96
12/14/2010	9.60	2115	9.10	8.58	0115	96
12/15/2010	9.79	1045	9.42	8.66	2245	96
12/16/2010	9.77	1215	9.34	8.79	0200	96
12/17/2010	9.34	0400	8.11	7.25	1815	96
12/18/2010	7.60	0815	7.34	7.17	2400	96
12/19/2010	8.07	2345	7.18	6.78	1445	96
12/20/2010	9.31	2345	8.95	8.03	0015	96
12/21/2010	9.36	0600	9.26	7.05	1045	43
AVERAGE	9.175		8.741	8.126		
STD DEV.:	0.729		0.717	0.724		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM  
MONTHLY SUMMARY REPORT FOR December 2010

STATION: Zero

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
12/01/2010	6.901	2315	6.785	6.690	0800	96
12/02/2010	6.896	0015	6.781	6.720	2400	96
12/03/2010	6.719	0030	6.654	6.578	2345	96
12/04/2010	6.571	0015	6.435	6.372	1730	96
12/05/2010	6.430	2215	6.396	6.380	1800	96
12/06/2010	6.763	2400	6.553	6.387	0145	96
12/07/2010	6.809	1915	6.776	6.745	0345	96
12/08/2010	6.822	1115	6.799	6.772	0430	96
12/09/2010	6.855	2130	6.802	6.750	0930	96
12/10/2010	6.907	1015	6.847	6.786	1215	96
12/11/2010	6.918	1230	6.893	6.866	0230	96
12/12/2010	7.060	2400	6.932	6.868	0045	96
12/13/2010	7.070	0100	7.008	6.927	1130	96
12/14/2010	7.010	0430	6.823	6.612	2400	96
12/15/2010	6.683	1600	6.610	6.545	0445	96
12/16/2010	6.666	0200	6.626	6.602	0830	96
12/17/2010	6.887	1045	6.738	6.639	0045	96
12/18/2010	6.695	0045	6.639	6.582	2345	96
12/19/2010	6.612	0400	6.575	6.506	2015	96
12/20/2010	6.775	2400	6.715	6.599	0015	96
12/21/2010	6.972	1215	6.800	6.726	1330	93
12/22/2010	6.813	0200	6.787	6.769	1030	96
12/23/2010	6.824	0145	6.789	6.739	2215	96
12/24/2010	6.795	1400	6.770	6.747	0845	96
12/25/2010	6.877	1245	6.825	6.789	0700	96
12/26/2010	6.899	2400	6.849	6.822	0015	96
12/27/2010	7.000	1945	6.950	6.879	0500	96
12/28/2010	7.000	0230	6.960	6.894	2400	96
12/29/2010	6.897	0030	6.871	6.845	0800	96
12/30/2010	6.874	1515	6.854	6.829	0945	96
12/31/2010	6.862	0300	6.836	6.811	1130	96
AVERAGE	6.834		6.764	6.702		
STD DEV.:	0.144		0.145	0.153		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR December 2010

STATION: Zero

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
12/01/2010	19.500	2400	17.970	16.530	0600	96
12/02/2010	19.570	0100	18.551	17.440	0700	96
12/03/2010	18.620	0015	17.472	15.990	0930	96
12/04/2010	18.430	0245	17.705	16.960	1945	96
12/05/2010	17.520	0315	17.117	16.850	2400	96
12/06/2010	17.120	2330	16.520	15.880	0600	96
12/07/2010	17.090	0015	15.914	14.670	0900	96
12/08/2010	16.930	0030	16.153	14.580	0815	96
12/09/2010	16.720	0015	14.883	12.560	1245	96
12/10/2010	17.530	1545	15.716	14.180	0015	96
12/11/2010	17.960	1545	17.481	16.050	0130	96
12/12/2010	18.320	2400	17.508	16.850	1100	96
12/13/2010	18.870	2015	18.136	16.310	1000	96
12/14/2010	18.650	0015	17.482	16.550	1015	96
12/15/2010	17.300	2045	16.978	16.510	1145	96
12/16/2010	17.340	0200	16.961	16.160	0830	96
12/17/2010	25.410	2315	21.532	16.570	0800	96
12/18/2010	25.520	0400	24.944	23.850	1045	96
12/19/2010	25.430	1800	24.197	18.820	2400	96
12/20/2010	18.680	0015	16.846	16.480	2400	96
12/21/2010	17.750	1330	16.568	16.020	0845	96
12/22/2010	16.990	1715	16.768	16.370	0345	96
12/23/2010	16.960	1845	16.499	15.530	2400	96
12/24/2010	15.540	0100	15.266	14.870	2030	96
12/25/2010	20.940	2400	17.740	14.770	0130	96
12/26/2010	22.120	1515	21.657	20.980	0015	96
12/27/2010	21.140	0015	20.667	20.150	1230	96
12/28/2010	22.250	1430	21.478	20.430	0230	96
12/29/2010	22.330	0130	21.780	21.330	1045	96
12/30/2010	22.710	1530	22.005	21.390	0900	96
12/31/2010	22.860	1530	21.954	21.420	0700	96
AVERAGE	19.487		18.466	17.195		
STD DEV.:	2.812		2.676	2.594		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR December 2010

STATION: N5

PARAMETER: Dissolved Oxygen (MG/L)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
12/01/2010	13.30	0115	12.39	11.73	1445	96
12/02/2010	12.15	0015	11.29	11.04	1200	96
12/03/2010	11.96	0630	11.49	11.13	2145	96
12/04/2010	11.60	2315	11.33	11.12	0130	96
12/05/2010	12.23	2130	11.93	11.57	0045	96
12/06/2010	12.96	2245	12.51	9.66	0215	96
12/07/2010	13.38	0500	12.88	12.56	1330	96
12/08/2010	13.65	1045	13.23	12.83	0030	96
12/09/2010	14.35	2315	13.79	13.45	0115	96
12/10/2010	14.55	0330	13.94	12.80	1145	96
12/11/2010	14.78	1345	14.09	13.66	1445	96
12/12/2010	15.99	1130	14.58	13.71	0330	96
12/13/2010	14.50	0030	13.12	9.90	1200	96
12/14/2010	13.60	2345	13.24	12.68	0015	96
12/15/2010	14.24	1545	13.94	13.51	0015	96
12/16/2010	14.24	0145	13.91	12.02	0330	96
12/17/2010	14.38	0300	8.75	6.58	1645	96
12/18/2010	8.19	1600	7.50	6.79	1030	96
12/19/2010	14.70	1715	9.88	7.83	1330	96
12/20/2010	14.21	0815	13.93	13.66	0145	96
12/21/2010	14.38	1015	13.98	10.80	1400	56
AVERAGE	13.492		12.462	11.382		
STD DEV.:	1.632		1.879	2.178		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR December 2010

STATION: N5

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
12/01/2010	6.633	1915	6.593	6.574	1630	96
12/02/2010	6.633	2230	6.582	6.547	0845	96
12/03/2010	6.629	0015	6.571	6.466	2400	96
12/04/2010	6.471	0030	6.382	6.349	1430	96
12/05/2010	6.433	2300	6.399	6.366	0215	96
12/06/2010	6.575	1430	6.469	6.371	0445	96
12/07/2010	6.601	1615	6.570	6.541	0200	96
12/08/2010	6.673	2145	6.628	6.594	0015	96
12/09/2010	6.728	2400	6.693	6.658	0100	96
12/10/2010	6.819	0615	6.710	6.657	1430	96
12/11/2010	6.735	0645	6.675	6.625	1730	96
12/12/2010	6.719	1015	6.672	6.637	2330	96
12/13/2010	6.745	1200	6.620	6.586	0830	96
12/14/2010	6.666	1345	6.642	6.560	2400	96
12/15/2010	6.590	0015	6.519	6.496	2200	96
12/16/2010	6.592	0315	6.498	6.474	1300	96
12/17/2010	6.655	0545	6.381	6.221	1930	96
12/18/2010	6.406	2400	6.311	6.170	0800	96
12/19/2010	6.503	2400	6.410	6.357	1800	96
12/20/2010	6.633	2345	6.571	6.505	0015	96
12/21/2010	6.667	1400	6.626	6.610	1100	96
12/22/2010	6.635	0045	6.609	6.586	1215	96
12/23/2010	6.620	2400	6.604	6.579	1345	96
12/24/2010	6.639	2330	6.620	6.605	1045	96
12/25/2010	6.682	0930	6.617	6.477	0845	96
12/26/2010	6.557	0115	6.487	6.428	1815	96
12/27/2010	6.504	0345	6.471	6.414	1530	96
12/28/2010	6.608	1500	6.518	6.428	0200	96
12/29/2010	6.706	2315	6.644	6.542	0015	96
12/30/2010	6.707	0015	6.689	6.665	2330	96
12/31/2010	6.679	0045	6.652	6.630	2030	96
AVERAGE	6.627		6.562	6.507		
STD DEV.:	0.093		0.105	0.126		



PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR December 2010

STATION: N10

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
12/01/2010	4.581	2400	3.975	3.587	0030	96
12/02/2010	4.771	1100	4.643	4.470	2015	96
12/03/2010	4.579	2300	4.164	3.795	1200	96
12/04/2010	4.577	0015	4.305	4.070	2400	96
12/05/2010	4.057	0015	3.674	3.363	2330	96
12/06/2010	3.385	0045	3.156	2.275	1215	49
AVERAGE	4.325		3.986	3.593		
STD DEV.:	0.519		0.520	0.752		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR December 2010

STATION: S4

PARAMETER: Temperature (Deg. C)

---

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
12/01/2010	8.470	1530	7.652	7.060	0200	96
12/02/2010	7.700	2045	7.226	6.723	1915	96
12/03/2010	7.540	2400	6.957	6.226	1130	96
12/04/2010	7.700	0515	7.439	7.190	2400	96
12/05/2010	7.460	2200	7.153	6.962	1645	96
12/06/2010	7.120	0400	6.721	5.202	1215	49

---

AVERAGE	7.665		7.191	6.561		
STD DEV.:	0.448		0.333	0.747		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM  
MONTHLY SUMMARY REPORT FOR January 2011

STATION: Zero

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
01/01/2011	6.846	1600	6.835	6.822	1100	96
01/02/2011	6.872	1345	6.848	6.767	0945	96
01/03/2011	6.885	1130	6.853	6.784	0330	96
01/04/2011	6.910	1830	6.889	6.864	1045	96
01/05/2011	6.920	1630	6.902	6.876	1100	96
01/06/2011	6.942	0715	6.920	6.902	0100	96
01/07/2011	6.936	0745	6.898	6.864	1500	96
01/08/2011	6.914	0145	6.882	6.862	1000	96
01/09/2011	6.904	0615	6.883	6.852	2115	96
01/10/2011	6.916	1200	6.874	6.838	2315	96
01/11/2011	6.843	0100	6.828	6.809	1445	96
01/12/2011	6.946	1415	6.891	6.835	0130	96
01/13/2011	6.878	0745	6.854	6.827	2345	96
01/14/2011	6.845	1930	6.821	6.800	1000	96
01/15/2011	6.892	1900	6.865	6.844	0200	96
01/16/2011	6.884	0045	6.859	6.836	2345	96
01/17/2011	6.865	2400	6.849	6.836	2300	96
01/18/2011	6.908	1445	6.877	6.842	0430	96
01/19/2011	6.889	1545	6.870	6.828	1115	96
01/20/2011	6.913	1100	6.848	6.812	2045	96
01/21/2011	6.912	1545	6.878	6.834	0015	96
01/22/2011	6.861	0645	6.845	6.827	1630	96
01/23/2011	6.885	1615	6.862	6.837	0015	96
01/24/2011	6.933	1345	6.880	6.841	2015	96
01/25/2011	7.150	2400	6.920	6.836	1415	96
01/26/2011	7.140	0015	6.999	6.917	1345	96
01/27/2011	6.986	1730	6.948	6.908	2400	96
01/28/2011	7.010	2030	6.926	6.847	1300	96
01/29/2011	7.010	0500	6.924	6.793	2330	96
01/30/2011	6.807	0630	6.762	6.726	1430	96
01/31/2011	6.768	1430	6.754	6.731	0015	96
AVERAGE	6.915		6.872	6.832		
STD DEV.:	0.080		0.048	0.043		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR January 2011

STATION: Zero

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
01/01/2011	22.560	1500	22.182	21.830	0800	96
01/02/2011	22.540	2300	22.033	20.880	0945	96
01/03/2011	22.290	0015	15.543	12.640	0845	96
01/04/2011	17.790	1500	16.364	15.180	0415	96
01/05/2011	16.290	1515	15.569	14.710	0500	96
01/06/2011	16.580	1430	16.267	16.040	2400	96
01/07/2011	17.120	2400	15.542	14.270	0915	96
01/08/2011	17.390	1430	17.096	16.690	0830	96
01/09/2011	17.060	1500	16.684	16.080	0730	96
01/10/2011	19.130	1200	16.819	15.960	0845	96
01/11/2011	17.760	1430	17.326	16.630	0330	96
01/12/2011	17.500	0100	16.918	16.240	1030	96
01/13/2011	17.710	1400	17.035	15.380	2230	96
01/14/2011	16.250	1400	15.784	15.490	0245	96
01/15/2011	16.280	1400	15.871	15.570	0900	96
01/16/2011	16.220	1430	15.877	15.330	0830	96
01/17/2011	16.350	1500	15.803	15.170	0900	96
01/18/2011	16.430	2330	15.951	15.220	0030	96
01/19/2011	19.200	1545	16.709	15.790	2400	96
01/20/2011	21.660	1645	17.340	15.810	0015	96
01/21/2011	16.390	0015	16.081	15.560	0745	96
01/22/2011	16.620	1515	16.223	15.820	0445	96
01/23/2011	16.430	1230	16.044	15.570	2330	96
01/24/2011	15.980	2330	14.859	12.550	1330	96
01/25/2011	16.390	1445	13.442	6.008	2345	96
01/26/2011	14.110	2400	10.445	5.950	0030	96
01/27/2011	15.240	2400	14.546	14.130	0015	96
01/28/2011	16.150	0300	10.986	8.960	1030	96
01/29/2011	15.710	2400	10.908	9.020	0800	96
01/30/2011	16.330	1315	15.903	15.510	0815	96
01/31/2011	16.070	1445	15.593	14.880	0845	96
AVERAGE	17.404		15.927	14.673		
STD DEV.:	2.147		2.421	3.366		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR January 2011

STATION: N5

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
01/01/2011	6.644	0015	6.620	6.592	2215	96
01/02/2011	6.627	0200	6.602	6.514	2400	96
01/03/2011	6.691	0645	6.620	6.519	0015	96
01/04/2011	6.791	1230	6.736	6.668	0030	96
01/05/2011	6.743	0845	6.668	6.640	1500	96
01/06/2011	6.692	0915	6.646	6.619	1630	96
01/07/2011	6.707	1015	6.630	6.597	1715	96
01/08/2011	6.646	0730	6.614	6.592	1615	96
01/09/2011	6.724	0900	6.632	6.591	1815	96
01/10/2011	6.721	0015	6.682	6.640	1400	96
01/11/2011	6.708	1030	6.653	6.623	1145	96
01/12/2011	6.652	1545	6.632	6.602	2345	96
01/13/2011	6.642	1230	6.600	6.545	1315	96
01/14/2011	6.614	2300	6.593	6.551	1130	96
01/15/2011	6.638	1130	6.625	6.609	0015	96
01/16/2011	6.622	0030	6.610	6.597	0830	96
01/17/2011	6.634	1115	6.623	6.612	1845	96
01/18/2011	6.632	1030	6.616	6.592	2400	96
01/19/2011	6.611	1400	6.565	6.520	1230	96
01/20/2011	6.594	0930	6.562	6.527	1845	96
01/21/2011	6.604	0945	6.588	6.561	0015	96
01/22/2011	6.607	2345	6.594	6.584	1630	96
01/23/2011	6.631	1200	6.615	6.603	1900	96
01/24/2011	6.657	2330	6.631	6.606	0115	96
01/25/2011	6.657	0030	6.622	6.584	2130	96
01/26/2011	6.785	1100	6.659	6.591	0330	96
01/27/2011	6.632	2100	6.612	6.592	1615	96
01/28/2011	6.665	1930	6.597	6.537	0400	96
01/29/2011	6.656	0015	6.610	6.526	1345	96
01/30/2011	6.587	0030	6.536	6.520	0130	96
01/31/2011	6.564	2400	6.555	6.544	1800	96
AVERAGE	6.657		6.618	6.581		
STD DEV.:	0.055		0.039	0.041		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM  
MONTHLY SUMMARY REPORT FOR February 2011

STATION: Zero

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
02/01/2011	6.810	1345	6.787	6.758	0030	96
02/02/2011	6.836	1515	6.811	6.777	0400	96
02/03/2011	6.803	0200	6.787	6.771	1130	96
02/04/2011	6.821	0515	6.794	6.760	1230	96
02/05/2011	6.830	2300	6.805	6.777	1400	96
02/06/2011	6.831	0615	6.798	6.763	1230	96
02/07/2011	6.811	0800	6.769	6.717	1200	96
02/08/2011	6.864	2400	6.805	6.756	1030	96
02/09/2011	6.866	0015	6.837	6.811	1500	96
02/10/2011	6.855	1200	6.838	6.821	2200	96
02/11/2011	6.856	2400	6.837	6.822	1915	96
02/12/2011	6.880	0445	6.854	6.822	1315	96
02/13/2011	6.899	0600	6.856	6.821	2245	96
02/14/2011	6.877	0715	6.837	6.781	1330	96
02/15/2011	6.939	1015	6.904	6.856	2345	96
02/16/2011	6.900	0415	6.876	6.836	1045	96
02/17/2011	6.910	0430	6.866	6.796	1145	96
02/18/2011	6.948	2345	6.871	6.831	1400	96
02/19/2011	7.030	1815	6.979	6.929	0230	96
02/20/2011	7.000	1045	6.978	6.940	2315	96
02/21/2011	6.966	1345	6.931	6.890	0845	96
02/22/2011	6.943	1545	6.914	6.876	2400	71
02/23/2011	6.929	1245	6.882	6.835	2315	96
02/24/2011	6.882	1215	6.855	6.824	0445	96
02/25/2011	6.975	2345	6.890	6.791	0200	83
02/26/2011	6.997	1115	6.964	6.868	2300	96
02/27/2011	6.932	1330	6.888	6.836	2300	96
02/28/2011	6.914	1145	6.880	6.828	0145	96
AVERAGE	6.897		6.860	6.818		
STD DEV.:	0.063		0.058	0.052		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR February 2011

STATION: Zero

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
02/01/2011	15.940	2315	15.496	14.610	0645	96
02/02/2011	15.980	2000	15.822	15.430	1045	96
02/03/2011	16.320	1315	15.770	15.520	0715	96
02/04/2011	16.690	1400	15.932	15.010	0715	96
02/05/2011	16.320	1300	16.045	15.670	0330	96
02/06/2011	16.510	1430	16.118	15.680	2345	96
02/07/2011	16.410	1145	15.968	15.420	0730	96
02/08/2011	16.200	1315	15.618	14.920	0315	96
02/09/2011	16.280	1445	15.642	14.990	0045	96
02/10/2011	16.450	1515	15.882	15.200	0645	96
02/11/2011	16.960	1430	16.294	15.820	0345	96
02/12/2011	16.830	1400	15.692	14.590	0445	96
02/13/2011	16.760	1645	15.546	13.880	0730	96
02/14/2011	17.180	1500	15.929	14.080	0730	96
02/15/2011	15.710	0015	14.519	12.570	0815	96
02/16/2011	22.190	2230	17.138	12.920	0700	96
02/17/2011	22.240	0130	19.993	18.680	0830	96
02/18/2011	21.250	0015	19.441	15.030	2400	96
02/19/2011	18.850	2400	16.823	14.210	0130	96
02/20/2011	21.260	1445	19.077	17.300	2115	96
02/21/2011	21.120	0700	19.982	18.210	0245	96
02/22/2011	22.410	1500	21.431	20.610	0330	96
02/23/2011	22.620	1400	21.908	21.170	0615	96
02/24/2011	22.980	1300	22.408	21.760	0515	96
02/25/2011	22.880	0045	19.692	14.600	2400	86
02/26/2011	18.810	2400	13.984	12.030	0600	96
02/27/2011	21.310	2230	18.773	17.380	0845	96
02/28/2011	22.890	1715	20.975	17.790	0900	96
AVERAGE	18.834		17.425	15.896		
STD DEV.:	2.799		2.412	2.433		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR February 2011

STATION: N5

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
02/01/2011	6.585	1400	6.575	6.563	0015	96
02/02/2011	6.569	0015	6.543	6.533	0630	96
02/03/2011	6.558	2315	6.537	6.527	1715	96
02/04/2011	6.567	0845	6.557	6.539	1645	96
02/05/2011	6.571	0215	6.551	6.533	2345	96
02/06/2011	6.542	1345	6.535	6.527	0400	96
02/07/2011	6.761	1230	6.618	6.541	0015	96
02/08/2011	6.697	2315	6.669	6.645	1115	96
02/09/2011	6.727	0430	6.715	6.700	0015	96
02/10/2011	6.716	2345	6.708	6.699	1800	96
02/11/2011	6.735	0845	6.720	6.706	1800	96
02/12/2011	6.720	0400	6.709	6.680	2300	96
02/13/2011	6.721	1345	6.710	6.690	0015	96
02/14/2011	6.975	1215	6.782	6.709	0100	96
02/15/2011	6.790	0015	6.778	6.761	2145	96
02/16/2011	6.767	0400	6.754	6.737	1900	96
02/17/2011	6.786	1200	6.733	6.687	1115	96
02/18/2011	6.746	1400	6.732	6.719	0015	96
02/19/2011	6.754	1245	6.743	6.723	0145	96
02/20/2011	6.776	1000	6.766	6.752	0030	96
02/21/2011	6.792	2400	6.773	6.762	1615	96
02/22/2011	6.804	1100	6.781	6.766	1815	96
02/23/2011	6.790	0730	6.772	6.747	1700	96
02/24/2011	6.777	0930	6.761	6.744	1945	96
02/25/2011	6.765	1515	6.751	6.735	1500	96
02/26/2011	6.748	0015	6.733	6.714	1700	96
02/27/2011	6.748	1115	6.738	6.728	2000	96
02/28/2011	6.749	1230	6.740	6.734	1715	96
AVERAGE	6.723		6.696	6.675		
STD DEV.:	0.097		0.085	0.085		



PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM  
MONTHLY SUMMARY REPORT FOR March 2011

STATION: Zero

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
03/01/2011	6.956	1045	6.893	6.834	2400	94
03/02/2011	6.893	2400	6.850	6.805	0215	96
03/03/2011	6.899	0015	6.874	6.811	2345	96
03/04/2011	6.853	1145	6.827	6.799	1445	96
03/05/2011	6.923	2330	6.841	6.740	1515	96
03/06/2011	6.962	0415	6.895	6.787	1130	96
03/07/2011	6.976	2045	6.952	6.896	1515	96
03/08/2011	6.947	0015	6.760	6.610	2345	96
03/09/2011	6.621	0345	6.518	6.410	2400	96
03/10/2011	6.626	2400	6.531	6.411	0015	96
03/11/2011	6.682	1745	6.644	6.618	1730	96
03/12/2011	6.699	2315	6.675	6.644	1400	96
03/13/2011	6.920	0430	6.737	6.695	0245	96
03/14/2011	6.741	0100	6.690	6.655	1530	96
03/15/2011	6.699	0900	6.681	6.661	0115	96
03/16/2011	6.742	1200	6.723	6.697	0015	96
03/17/2011	6.797	1445	6.744	6.720	1515	96
03/18/2011	6.791	0730	6.770	6.749	1045	95
03/19/2011	6.822	1315	6.786	6.751	0130	96
03/20/2011	6.791	1245	6.769	6.733	2330	96
03/21/2011	6.766	2000	6.752	6.735	1000	96
03/22/2011	6.821	1730	6.799	6.767	0015	96
03/23/2011	6.885	2400	6.850	6.808	0030	96
03/24/2011	6.897	0400	6.822	6.768	1415	96
03/25/2011	6.844	1015	6.809	6.783	0830	96
03/26/2011	6.877	2400	6.851	6.827	0645	96
03/27/2011	6.907	1700	6.879	6.844	0445	96
03/28/2011	6.947	1015	6.899	6.855	0500	96
03/29/2011	6.924	1300	6.895	6.863	0745	96
03/30/2011	6.896	1115	6.867	6.841	0730	96
03/31/2011	6.892	2130	6.859	6.840	1145	96
AVERAGE	6.839		6.788	6.741		
STD DEV.:	0.101		0.104	0.115		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR March 2011

STATION: Zero

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
03/01/2011	22.640	1515	20.669	17.180	0815	94
03/02/2011	23.530	1245	21.773	18.530	0830	96
03/03/2011	22.300	2345	20.893	17.400	0800	96
03/04/2011	22.750	1345	21.517	20.060	0615	96
03/05/2011	22.160	0045	14.497	7.540	2115	96
03/06/2011	16.470	2245	11.699	8.260	0015	96
03/07/2011	16.310	0015	13.846	8.250	2400	96
03/08/2011	20.310	2400	14.693	7.940	0215	96
03/09/2011	21.060	2400	20.072	18.350	1030	96
03/10/2011	21.380	0130	19.743	18.750	0845	96
03/11/2011	21.570	1630	19.923	18.190	1145	96
03/12/2011	20.820	0015	18.838	17.890	2345	96
03/13/2011	18.110	0230	14.860	8.130	0430	96
03/14/2011	21.600	1445	17.297	12.630	0645	96
03/15/2011	21.390	0030	20.564	18.690	0945	96
03/16/2011	21.390	1545	20.050	17.860	0945	96
03/17/2011	22.070	1445	20.391	18.360	0800	96
03/18/2011	21.430	2245	20.426	19.010	0915	95
03/19/2011	21.320	0015	19.215	17.840	2230	96
03/20/2011	18.960	0215	18.258	17.510	2230	96
03/21/2011	20.290	1615	19.073	17.310	0945	96
03/22/2011	19.460	0015	17.597	16.210	0945	96
03/23/2011	18.700	0115	17.394	15.750	0930	96
03/24/2011	20.040	1315	17.878	15.510	0815	96
03/25/2011	20.000	1145	18.174	17.150	0645	96
03/26/2011	20.080	1430	18.048	17.030	0715	96
03/27/2011	18.640	2330	17.889	17.370	0700	96
03/28/2011	19.980	1530	18.388	16.920	0700	96
03/29/2011	19.340	2300	18.682	18.020	0800	96
03/30/2011	20.510	1545	19.228	18.120	0715	96
03/31/2011	19.880	1400	19.375	19.060	0745	96
AVERAGE	20.467		18.418	16.026		
STD DEV.:	1.696		2.371	3.802		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR March 2011

STATION: N5

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
03/01/2011	6.764	0500	6.738	6.708	1730	96
03/02/2011	6.741	2400	6.727	6.718	1715	96
03/03/2011	6.769	1030	6.751	6.735	2130	96
03/04/2011	6.767	0945	6.748	6.731	2145	96
03/05/2011	6.747	1115	6.736	6.722	2000	96
03/06/2011	6.872	0300	6.765	6.688	2315	96
03/07/2011	6.738	0700	6.604	6.456	1445	96
03/08/2011	6.627	0845	6.549	6.494	1600	96
03/09/2011	6.504	0015	6.387	6.337	1900	96
03/10/2011	6.661	2345	6.520	6.346	0015	96
03/11/2011	6.705	2245	6.672	6.644	1200	96
03/12/2011	6.744	2330	6.708	6.676	0745	96
03/13/2011	6.760	0615	6.739	6.716	1400	96
03/14/2011	6.802	1300	6.761	6.739	0145	96
03/15/2011	6.779	0330	6.762	6.744	2315	96
03/16/2011	6.798	2030	6.762	6.748	0215	96
03/17/2011	6.777	0800	6.758	6.735	2330	96
03/18/2011	6.785	1345	6.750	6.735	0745	96
03/19/2011	6.774	1430	6.762	6.747	0300	96
03/20/2011	6.793	1515	6.774	6.754	0015	96
03/21/2011	6.761	0015	6.742	6.729	1030	96
03/22/2011	6.752	1345	6.738	6.726	0900	96
03/23/2011	6.788	1245	6.767	6.738	0015	96
03/24/2011	6.831	1030	6.792	6.774	0045	96
03/25/2011	6.831	1215	6.792	6.764	2115	96
03/26/2011	6.822	1845	6.802	6.765	0100	96
03/27/2011	6.845	1230	6.817	6.799	2130	96
03/28/2011	6.851	0800	6.827	6.803	0215	96
03/29/2011	6.851	1315	6.826	6.775	1200	96
03/30/2011	6.822	0930	6.803	6.768	2345	96
03/31/2011	6.776	0415	6.766	6.756	2145	96
AVERAGE	6.769		6.730	6.696		
STD DEV.:	0.072		0.095	0.120		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR April 2011

STATION: Zero

PARAMETER: Dissolved Oxygen (MG/L)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
04/18/2011	9.55	1115	8.11	7.76	2200	52
04/19/2011	7.94	2400	7.76	7.62	1430	96
04/20/2011	8.51	0600	8.33	8.13	0015	96
04/21/2011	9.18	1830	8.67	8.10	0245	96
04/22/2011	9.60	1630	9.10	8.60	2115	96
04/23/2011	9.25	1915	8.89	8.60	0800	96
04/24/2011	9.21	0615	8.95	8.77	2130	96
04/25/2011	9.02	0715	8.85	8.58	2300	96
04/26/2011	9.55	2345	9.04	8.70	2000	96
04/27/2011	9.56	0515	9.33	8.92	1215	96
04/28/2011	9.64	1330	9.17	8.64	1930	96
04/29/2011	9.08	1615	8.78	8.61	0400	96
04/30/2011	9.12	0715	8.75	8.59	1330	96
AVERAGE	9.169		8.749	8.433		
STD DEV.:	0.486		0.445	0.399		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM  
MONTHLY SUMMARY REPORT FOR April 2011

STATION: Zero

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
04/01/2011	6.928	1445	6.893	6.849	0715	96
04/02/2011	6.913	1545	6.891	6.872	0700	96
04/03/2011	6.938	1445	6.884	6.827	0800	96
04/04/2011	6.884	2000	6.858	6.829	0900	96
04/05/2011	6.912	1500	6.873	6.846	0045	96
04/06/2011	6.905	1815	6.873	6.832	0645	96
04/07/2011	6.874	1715	6.850	6.823	2400	96
04/08/2011	6.858	1245	6.831	6.803	0630	96
04/09/2011	6.869	1500	6.828	6.794	0700	96
04/10/2011	6.864	2100	6.838	6.798	0700	96
04/11/2011	6.898	1945	6.856	6.813	0745	96
04/12/2011	6.885	0015	6.817	6.770	2400	96
04/13/2011	6.767	0030	6.703	6.669	1330	96
04/14/2011	6.689	0230	6.668	6.635	2330	96
04/15/2011	6.687	1915	6.653	6.627	0715	96
04/16/2011	6.764	2330	6.698	6.655	0845	96
04/17/2011	6.819	1445	6.777	6.752	1030	96
04/18/2011	6.814	1130	6.757	6.719	2400	96
04/19/2011	6.744	0030	6.693	6.642	2345	96
04/20/2011	6.717	2400	6.673	6.618	0630	96
04/21/2011	6.923	2400	6.791	6.683	0200	96
04/22/2011	7.020	2315	6.940	6.863	1630	96
04/23/2011	7.090	2245	7.017	6.956	1645	96
04/24/2011	7.120	0545	6.936	6.731	1645	96
04/25/2011	6.975	2045	6.896	6.787	1145	96
04/26/2011	7.090	2345	6.912	6.792	1200	96
04/27/2011	7.160	0300	6.943	6.771	1500	96
04/28/2011	7.210	2330	6.942	6.828	1000	96
04/29/2011	7.210	1945	7.116	6.944	1615	96
04/30/2011	7.220	1530	7.150	7.010	0945	96
AVERAGE	6.925		6.852	6.785		
STD DEV.:	0.154		0.121	0.099		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR April 2011

STATION: Zero

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
04/01/2011	21.470	1600	20.213	18.720	0930	96
04/02/2011	20.900	0015	19.576	18.890	0715	96
04/03/2011	20.950	2330	19.789	19.350	0400	96
04/04/2011	22.500	1930	21.019	19.570	0900	96
04/05/2011	22.600	2345	20.076	19.200	0845	96
04/06/2011	22.530	0015	20.543	18.800	0700	96
04/07/2011	23.890	1400	21.171	19.060	0845	96
04/08/2011	23.350	1330	21.460	19.740	0645	96
04/09/2011	22.080	2400	21.330	20.780	0330	96
04/10/2011	25.060	2245	22.415	21.280	0730	96
04/11/2011	24.380	0015	23.213	22.130	1100	96
04/12/2011	24.000	1545	23.089	21.860	2245	96
04/13/2011	21.920	0015	20.507	19.220	2400	96
04/14/2011	19.160	0015	17.007	16.120	2330	96
04/15/2011	18.260	1515	16.780	16.090	0030	96
04/16/2011	17.040	2400	16.221	15.960	1745	96
04/17/2011	17.240	1515	16.882	16.550	0800	96
04/18/2011	17.930	1430	17.103	16.660	0930	96
04/19/2011	20.420	2400	17.923	16.140	1215	96
04/20/2011	21.650	2400	20.857	20.450	0015	96
04/21/2011	21.680	0100	14.593	7.690	2400	96
04/22/2011	9.810	1500	7.722	6.625	0530	96
04/23/2011	7.570	0015	7.118	6.755	2245	96
04/24/2011	10.730	1830	8.184	6.724	0600	96
04/25/2011	10.210	1445	8.629	7.880	0800	96
04/26/2011	10.630	1415	8.914	8.230	2345	96
04/27/2011	12.530	1230	9.596	8.090	0300	96
04/28/2011	11.740	2400	10.588	9.970	0600	96
04/29/2011	14.120	0945	12.725	10.870	0145	96
04/30/2011	14.390	1615	13.087	11.610	0545	96
AVERAGE	18.358		16.611	15.367		
STD DEV.:	5.205		5.187	5.324		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR April 2011

STATION: N5

PARAMETER: Dissolved Oxygen (MG/L)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
04/18/2011	10.96	1230	10.34	9.42	1200	49
04/19/2011	11.81	1600	10.63	9.66	0645	96
04/20/2011	11.33	1200	10.25	9.72	2330	96
04/21/2011	10.79	2115	9.51	8.49	1830	96
04/22/2011	19.98	0730	15.96	8.01	0500	96
04/23/2011	19.97	0015	12.48	8.19	2400	96
04/24/2011	19.98	2330	13.38	6.87	1015	96
04/25/2011	19.98	0015	15.30	5.69	1945	96
04/26/2011	19.97	1830	13.31	6.65	0045	96
04/27/2011	19.98	2345	16.87	11.14	0830	96
04/28/2011	19.98	0015	17.75	10.76	1500	96
04/29/2011	19.98	1130	19.77	12.64	0100	96
04/30/2011	19.97	0015	19.97	19.97	0015	96
AVERAGE	17.283		14.271	9.785		
STD DEV.:	4.211		3.629	3.621		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR April 2011

STATION: N5

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
04/01/2011	6.807	2145	6.784	6.761	0400	96
04/02/2011	6.834	1500	6.808	6.790	2400	96
04/03/2011	6.807	1545	6.788	6.771	2300	96
04/04/2011	6.776	1600	6.765	6.748	0645	96
04/05/2011	6.835	2315	6.803	6.768	0015	96
04/06/2011	6.936	1230	6.861	6.604	1215	96
04/07/2011	6.892	1230	6.871	6.839	2215	96
04/08/2011	6.853	1145	6.834	6.808	2245	96
04/09/2011	6.839	1430	6.815	6.792	2330	96
04/10/2011	6.804	1245	6.791	6.770	2345	96
04/11/2011	6.814	0130	6.794	6.759	0100	96
04/12/2011	6.813	0015	6.745	6.648	2345	96
04/13/2011	6.645	0100	6.625	6.606	1015	96
04/14/2011	6.662	1400	6.636	6.611	2400	96
04/15/2011	6.686	1145	6.617	6.590	0730	96
04/16/2011	6.700	1830	6.667	6.634	0200	96
04/17/2011	6.700	0230	6.673	6.648	1630	96
04/18/2011	6.686	1215	6.668	6.645	2345	96
04/19/2011	6.708	0130	6.655	6.630	0630	96
04/20/2011	6.706	2315	6.677	6.648	0430	96
04/21/2011	6.755	2030	6.732	6.696	0030	96
04/22/2011	6.901	0500	6.841	6.734	0045	96
04/23/2011	6.873	1800	6.848	6.811	0715	96
04/24/2011	6.883	1945	6.864	6.833	0515	96
04/25/2011	6.900	1730	6.863	6.826	0630	96
04/26/2011	6.876	2400	6.839	6.797	1245	96
04/27/2011	6.879	0445	6.818	6.741	2400	96
04/28/2011	6.753	0030	6.705	6.607	2400	96
04/29/2011	6.759	0115	6.726	6.586	0045	96
04/30/2011	6.711	0100	6.675	6.633	0700	96
AVERAGE	6.793		6.760	6.711		
STD DEV.:	0.083		0.082	0.085		



PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR April 2011

STATION: N10

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
04/08/2011	5.851	1800	5.785	5.656	1400	41
04/09/2011	6.547	1815	5.895	5.290	0700	96
04/10/2011	7.240	2000	6.648	6.023	0545	96
04/11/2011	8.000	2400	7.392	7.100	0230	96
04/12/2011	8.020	0045	7.569	7.090	2400	96
04/13/2011	7.050	0015	6.216	5.899	2345	96
04/14/2011	6.909	1945	6.285	5.794	0600	96
04/15/2011	6.841	1815	6.560	6.199	1000	96
04/16/2011	6.782	2015	6.607	6.452	0830	96
04/17/2011	7.130	2000	6.812	6.470	0745	96
04/18/2011	7.150	1745	6.937	6.664	1045	96
04/19/2011	6.985	2045	6.857	6.770	0700	96
04/20/2011	6.967	0015	6.805	6.694	2400	96
04/21/2011	7.260	1945	6.871	6.550	0715	96
04/22/2011	7.660	2045	7.179	6.764	0900	96
04/23/2011	7.610	0015	7.082	6.861	1915	96
04/24/2011	7.580	2030	7.171	6.803	0830	96
04/25/2011	8.090	2330	7.716	7.400	0345	96
04/26/2011	8.270	2300	7.987	7.540	0815	96
04/27/2011	9.780	2245	8.871	8.270	0015	96
04/28/2011	10.200	2045	9.736	9.400	0745	96
04/29/2011	11.540	2015	10.663	9.970	0700	96
04/30/2011	11.090	0015	10.608	10.260	0800	96
AVERAGE	7.850		7.402	7.040		
STD DEV.:	1.453		1.351	1.304		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR April 2011

STATION: S4

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
04/08/2011	9.540	1515	9.125	8.800	2400	52
04/09/2011	9.660	1615	9.045	8.340	0430	96
04/10/2011	10.310	2345	9.617	9.090	0715	96
04/11/2011	10.490	2345	10.093	9.850	0730	96
04/12/2011	10.830	1700	10.013	9.300	2345	96
04/13/2011	9.370	0030	8.421	7.940	1200	96
04/14/2011	8.520	1900	7.955	7.270	0645	96
04/15/2011	8.790	1700	8.263	7.740	0700	96
04/16/2011	8.880	2045	8.526	8.140	0645	96
04/17/2011	9.220	1830	8.910	8.590	0715	96
04/18/2011	8.860	0030	8.473	8.090	1115	96
04/19/2011	8.630	2345	8.231	7.870	1330	96
04/20/2011	8.850	1600	8.665	8.510	0130	96
04/21/2011	8.810	0130	8.017	7.310	2400	96
04/22/2011	7.620	2200	7.213	6.631	0715	96
04/23/2011	7.600	0015	7.102	6.868	2315	96
04/24/2011	7.600	2000	7.252	6.878	0730	96
04/25/2011	8.130	2400	7.768	7.480	0300	96
04/26/2011	8.310	2345	8.094	7.740	0745	96
04/27/2011	9.910	2330	8.967	8.320	0015	96
04/28/2011	10.240	2200	9.866	9.530	0815	96
04/29/2011	11.500	1930	10.729	10.050	0700	96
04/30/2011	11.190	0015	10.711	10.380	1000	96
AVERAGE	9.255		8.742	8.292		
STD DEV.:	1.122		1.046	1.042		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR May 2011

STATION: Zero

PARAMETER: Dissolved Oxygen (MG/L)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
05/01/2011	9.06	1730	8.73	8.51	2245	96
05/02/2011	9.00	1145	8.68	7.95	1845	96
05/03/2011	9.32	1645	8.43	7.92	1515	96
05/04/2011	8.61	0845	8.24	7.81	0445	96
05/05/2011	8.74	1315	8.43	8.22	1645	96
05/06/2011	9.98	0715	8.71	8.45	2045	96
05/07/2011	8.83	1800	8.51	8.23	1215	96
05/08/2011	8.86	1500	8.45	8.24	0330	96
05/09/2011	8.57	0715	8.02	7.51	1545	92
05/10/2011	7.66	1130	7.47	7.23	2145	96
05/11/2011	7.39	0515	7.27	6.88	2345	96
05/12/2011	7.31	1630	6.95	6.82	2115	96
05/13/2011	7.84	2400	7.35	6.85	0045	96
05/14/2011	8.34	2100	7.97	7.82	1745	96
05/15/2011	8.58	1730	8.24	6.36	2000	96
05/16/2011	9.16	1545	8.67	8.16	0645	96
05/17/2011	9.57	1745	9.17	8.87	0130	96
05/18/2011	9.34	1600	9.06	8.72	2215	96
05/19/2011	9.36	1615	8.98	8.73	0445	96
05/20/2011	9.10	0945	8.91	8.71	0315	96
05/21/2011	9.25	1300	8.80	8.53	2345	96
05/22/2011	8.75	1345	8.42	8.16	2345	96
05/23/2011	9.26	1315	8.45	8.02	0645	96
05/24/2011	9.24	1345	8.71	8.33	2400	96
05/25/2011	8.87	1715	8.35	7.98	0515	96
05/26/2011	9.31	1415	8.59	7.82	0400	96
05/27/2011	8.29	1515	7.85	6.92	2400	96
05/28/2011	7.42	1615	6.81	6.52	2330	96
05/29/2011	7.67	1630	6.90	6.47	0200	96
05/30/2011	7.98	2115	6.90	6.62	1045	96
05/31/2011	8.42	1400	7.64	7.04	2145	96
AVERAGE	8.680		8.183	7.755		
STD DEV.:	0.699		0.695	0.767		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM  
MONTHLY SUMMARY REPORT FOR May 2011

STATION: Zero

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
05/01/2011	7.170	0015	7.089	6.986	2330	96
05/02/2011	7.050	0545	6.890	6.737	2345	96
05/03/2011	6.780	1900	6.709	6.644	1115	96
05/04/2011	6.808	0945	6.738	6.655	0830	96
05/05/2011	6.953	1930	6.846	6.753	0415	96
05/06/2011	6.913	2145	6.869	6.793	1130	96
05/07/2011	6.884	1615	6.822	6.741	1130	96
05/08/2011	6.857	0015	6.782	6.656	2215	96
05/09/2011	6.739	1700	6.701	6.662	0815	96
05/10/2011	6.728	1445	6.695	6.663	0600	96
05/11/2011	6.736	1645	6.702	6.672	0630	96
05/12/2011	6.769	1430	6.714	6.672	0245	96
05/13/2011	6.759	1415	6.719	6.675	0615	96
05/14/2011	6.795	1700	6.755	6.714	0715	96
05/15/2011	6.794	1915	6.761	6.728	0330	96
05/16/2011	6.811	1815	6.787	6.765	1145	96
05/17/2011	6.833	1315	6.810	6.786	2345	96
05/18/2011	6.782	0030	6.737	6.691	2315	96
05/19/2011	6.748	1730	6.710	6.681	0245	96
05/20/2011	6.742	1415	6.715	6.687	2400	96
05/21/2011	6.721	1600	6.684	6.632	2345	96
05/22/2011	6.655	1215	6.631	6.614	0815	96
05/23/2011	6.680	2145	6.644	6.600	0445	96
05/24/2011	6.758	1630	6.684	6.641	2330	96
05/25/2011	6.730	1500	6.674	6.629	0645	96
05/26/2011	6.770	2115	6.699	6.625	0045	96
05/27/2011	6.760	1515	6.692	6.625	0715	96
05/28/2011	6.699	1830	6.627	6.574	0530	96
05/29/2011	7.060	1945	6.752	6.579	0330	96
05/30/2011	7.190	0230	7.088	6.972	1530	96
05/31/2011	7.280	1445	7.156	7.000	0645	96
AVERAGE	6.837		6.770	6.705		
STD DEV.:	0.157		0.131	0.109		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR May 2011

STATION: Zero

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
05/01/2011	16.980	1600	13.304	11.610	2330	96
05/02/2011	15.580	1415	13.412	11.610	0015	96
05/03/2011	16.860	1145	14.513	12.140	0815	96
05/04/2011	15.110	1630	14.525	12.120	0945	96
05/05/2011	14.140	0030	12.957	11.920	0930	96
05/06/2011	14.860	1530	13.370	11.690	0700	96
05/07/2011	15.940	1100	14.278	13.250	0600	96
05/08/2011	16.140	1330	14.383	13.110	0130	96
05/09/2011	22.790	1515	17.505	12.410	0700	96
05/10/2011	22.530	1730	22.094	21.740	0830	96
05/11/2011	22.910	1730	22.425	22.030	0915	96
05/12/2011	24.230	1600	22.839	22.070	2345	96
05/13/2011	23.810	1515	22.249	17.900	2400	96
05/14/2011	17.620	0015	15.888	15.150	2400	96
05/15/2011	15.130	0015	14.605	14.070	2400	96
05/16/2011	14.060	0015	13.756	13.250	2400	96
05/17/2011	17.560	2400	14.209	13.130	0400	96
05/18/2011	17.780	0415	17.191	16.850	2345	96
05/19/2011	17.910	1700	16.998	16.490	0715	96
05/20/2011	17.840	1530	17.332	16.990	0545	96
05/21/2011	19.890	1315	18.147	17.130	0645	96
05/22/2011	18.120	1430	18.020	17.940	0400	96
05/23/2011	18.110	0230	17.914	17.810	1000	96
05/24/2011	20.250	1400	18.598	17.780	0415	92
05/25/2011	22.130	1600	20.026	18.480	0445	96
05/26/2011	25.080	2400	21.454	20.050	0400	96
05/27/2011	29.540	1815	27.722	25.170	0015	96
05/28/2011	29.120	0015	28.557	28.220	1645	96
05/29/2011	30.000	1430	28.006	25.590	2400	96
05/30/2011	28.310	1400	26.221	22.570	2230	96
05/31/2011	30.890	2215	26.441	23.500	0715	96
AVERAGE	20.362		18.675	17.218		
STD DEV.:	5.130		4.888	4.751		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR May 2011

STATION: N5

PARAMETER: Dissolved Oxygen (MG/L)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
05/01/2011	19.97	0015	19.96	19.75	0900	96
05/02/2011	19.98	1000	19.90	15.55	1130	96
05/03/2011	19.98	0200	19.97	19.97	0015	96
05/04/2011	19.97	0015	16.65	8.89	1230	96
05/05/2011	19.98	2400	19.72	14.12	0215	96
05/06/2011	19.97	0015	19.97	19.87	1115	96
05/07/2011	19.97	0015	19.66	9.25	1415	96
05/08/2011	19.97	0015	15.78	8.54	1915	96
05/09/2011	19.97	0915	13.21	8.51	0230	96
05/10/2011	16.61	0030	13.60	8.84	2300	96
05/11/2011	18.92	2000	12.26	8.71	0600	96
05/12/2011	19.19	2330	15.28	9.47	0700	96
05/13/2011	16.47	0945	11.29	8.31	1300	96
05/14/2011	9.59	1945	8.97	8.57	0945	96
05/15/2011	9.58	1600	8.98	8.34	2015	96
05/16/2011	9.86	0530	8.99	8.53	1415	96
05/17/2011	9.36	0600	8.96	8.58	0515	96
05/18/2011	9.54	0715	9.07	8.63	1215	96
05/19/2011	10.67	1145	9.82	8.70	0545	88
05/20/2011	10.40	2245	10.32	10.21	2030	96
05/21/2011	10.40	0015	10.19	9.95	2230	96
05/22/2011	9.98	0015	9.87	9.75	2230	96
05/23/2011	9.93	1345	9.80	9.68	1545	96
05/24/2011	9.99	1315	9.79	9.67	2330	96
05/25/2011	9.83	0800	9.70	9.54	2100	96
05/26/2011	9.75	1145	9.22	7.83	2200	96
05/27/2011	8.63	0315	8.07	7.70	1800	96
05/28/2011	8.39	1230	8.03	7.70	2315	96
05/29/2011	8.40	2000	8.06	7.70	1045	96
05/30/2011	9.40	2230	8.15	7.63	0445	96
05/31/2011	9.50	1015	9.28	8.91	1545	96
AVERAGE	13.682		12.340	10.239		
STD DEV.:	4.946		4.363	3.609		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM  
MONTHLY SUMMARY REPORT FOR May 2011

STATION: N5

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
05/01/2011	6.712	2015	6.676	6.643	0730	96
05/02/2011	6.739	1115	6.700	6.660	0945	96
05/03/2011	6.728	1045	6.707	6.675	0745	96
05/04/2011	6.749	2215	6.723	6.688	1100	96
05/05/2011	6.815	2000	6.764	6.730	0400	96
05/06/2011	6.834	1700	6.796	6.757	0645	96
05/07/2011	6.785	0015	6.727	6.654	2400	96
05/08/2011	6.678	0945	6.633	6.578	1615	96
05/09/2011	6.726	1200	6.630	6.582	2400	96
05/10/2011	6.626	1745	6.596	6.567	0615	96
05/11/2011	6.658	1700	6.622	6.592	0645	96
05/12/2011	6.660	1430	6.632	6.606	0715	96
05/13/2011	6.752	1030	6.643	6.603	0700	96
05/14/2011	6.660	1700	6.630	6.604	0745	96
05/15/2011	6.672	2000	6.641	6.620	0800	96
05/16/2011	6.860	1145	6.652	6.585	0900	96
05/17/2011	6.747	0400	6.735	6.717	2400	96
05/18/2011	6.724	0015	6.707	6.691	0900	96
05/19/2011	6.786	1130	6.728	6.621	1015	96
05/20/2011	6.753	0030	6.734	6.711	2400	96
05/21/2011	6.713	0015	6.683	6.643	2300	96
05/22/2011	6.677	2200	6.652	6.626	0515	96
05/23/2011	6.689	2215	6.669	6.649	0815	96
05/24/2011	6.703	1515	6.681	6.658	0800	96
05/25/2011	6.702	1615	6.677	6.657	0715	96
05/26/2011	6.810	2015	6.698	6.635	0945	96
05/27/2011	6.773	1430	6.749	6.711	1015	96
05/28/2011	6.729	0015	6.690	6.638	0830	96
05/29/2011	6.769	1745	6.710	6.643	1015	96
05/30/2011	6.815	1930	6.700	6.597	2315	96
05/31/2011	6.675	1400	6.634	6.596	2345	96
AVERAGE	6.733		6.684	6.643		
STD DEV.:	0.058		0.047	0.049		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM  
MONTHLY SUMMARY REPORT FOR May 2011

STATION: N10

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
05/01/2011	11.360	1945	10.645	10.000	0900	96
05/02/2011	12.220	2245	11.445	10.810	0830	96
05/03/2011	12.610	2115	12.278	11.970	0730	96
05/04/2011	12.620	0030	12.179	11.930	1900	96
05/05/2011	11.950	0045	11.753	11.570	2400	96
05/06/2011	11.790	2145	11.396	10.860	0845	96
05/07/2011	11.960	2015	11.501	11.070	0815	96
05/08/2011	12.470	2145	12.066	11.690	0615	96
05/09/2011	13.250	2215	12.636	12.050	0530	96
05/10/2011	13.670	1530	13.330	12.910	0630	96
05/11/2011	13.980	1745	13.491	13.080	0600	96
05/12/2011	14.700	2100	13.923	13.140	0745	96
05/13/2011	15.570	2130	14.813	13.960	0800	96
05/14/2011	15.470	0015	15.204	14.890	2400	96
05/15/2011	14.890	0015	14.520	14.350	2015	96
05/16/2011	14.400	0015	13.770	13.440	2315	96
05/17/2011	13.550	0200	12.988	12.300	2400	96
05/18/2011	12.300	0015	11.957	11.830	0930	96
05/19/2011	12.300	1930	12.014	11.800	0615	96
05/20/2011	12.870	1745	12.463	12.220	0700	96
05/21/2011	13.620	1700	13.047	12.670	0200	96
05/22/2011	13.980	0730	13.628	13.110	0015	96
05/23/2011	14.260	1500	13.915	13.560	0200	93
05/24/2011	14.650	2045	14.266	13.940	0730	96
05/25/2011	15.960	2245	15.055	14.320	0615	96
05/26/2011	17.290	2315	16.304	15.490	0645	96
05/27/2011	18.890	2315	17.873	17.070	0230	96
05/28/2011	18.850	0015	18.674	18.520	0800	96
05/29/2011	19.660	1830	18.922	18.180	0645	96
05/30/2011	20.750	2200	20.028	19.470	0800	96
05/31/2011	21.490	1915	20.807	20.120	0700	96
AVERAGE	14.624		14.093	13.623		
STD DEV.:	2.756		2.667	2.602		



PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR May 2011

STATION: S4

PARAMETER: Temperature (Deg. C)

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
05/01/2011	11.290	1915	10.741	10.120	0700	96
05/02/2011	12.210	2400	11.575	10.830	0700	96
05/03/2011	12.770	1615	12.451	12.090	0715	96
05/04/2011	12.670	0200	12.328	12.010	2230	96
05/05/2011	12.110	1600	11.871	11.630	2400	96
05/06/2011	12.050	1445	11.631	11.060	0700	96
05/07/2011	12.050	1200	11.752	11.290	0645	96
05/08/2011	12.960	2230	12.464	11.820	0615	96
05/09/2011	14.960	1830	13.719	12.410	0645	96
05/10/2011	15.600	1700	14.988	14.590	0815	96
05/11/2011	15.900	1745	15.218	14.800	0600	96
05/12/2011	16.590	1745	15.750	14.930	0630	96
05/13/2011	17.540	1730	16.483	15.620	0815	96
05/14/2011	16.440	0030	15.802	15.430	2400	96
05/15/2011	15.400	0015	14.912	14.450	2400	96
05/16/2011	14.440	0015	13.982	13.600	2400	96
05/17/2011	13.600	0015	13.339	12.910	1915	96
05/18/2011	13.490	0130	13.196	13.030	0930	96
05/19/2011	13.480	2230	13.129	12.790	0530	96
05/20/2011	14.010	2330	13.528	13.280	0015	96
05/21/2011	15.320	1915	14.630	13.970	0015	96
05/22/2011	15.420	1745	15.255	15.040	0945	96
05/23/2011	15.380	0130	15.073	14.780	1845	93
05/24/2011	15.580	1630	15.054	14.590	0730	96
05/25/2011	16.860	2330	15.974	15.130	0600	96
05/26/2011	18.000	2400	17.184	16.440	0645	96
05/27/2011	19.690	1945	18.809	17.910	0415	96
05/28/2011	19.780	0015	19.476	19.210	0830	96
05/29/2011	20.670	1700	19.784	18.950	0700	96
05/30/2011	21.420	2330	20.711	20.190	0630	96
05/31/2011	22.810	1845	21.778	20.950	0845	96
AVERAGE	15.500		14.922	14.382		
STD DEV.:	2.982		2.835	2.774		