

ANNUAL REPORT

1990 - 1991

PUBLIC SERVICE OF NEW HAMPSHIRE

MERRIMACK GENERATING STATION

ENVIRONMENTAL MONITORING PROGRAM

(NPDES PERMIT NO. NH0001465)



Admin # 298

Public Service of New Hampshire

January 17, 1992

JAN 21 1992

N. H. Department of Environmental Services
Water Supply and Pollution Control Division
6 Hazen Drive, P.O. Box 95
Concord, New Hampshire 03301

Attention: Russ Nylander, Chief Engineer

RE: Merrimack Station Environmental Monitoring Program Annual Report

Dear Mr. Nylander:

Enclosed please find a copy of our "Annual Report, Public Service of New Hampshire, Merrimack Generating Station, Environmental Monitoring Program" covering the period June 1990 through May 1991. This report is provided in compliance with Sections 6(a) and 7 of the Merrimack Station NPDES Permit No. NH 0001465. It presents the data collected during the period and explains outages which occurred and remedial actions taken to keep the systems in-service.

If you have any questions concerning this report or the Monitoring Program in general, please contact Paul Basiliere, Senior Environmental Analyst, at (603) 634-2684.

Very truly yours,

Dennis R. Brown
Director
Production Division

cc: Raymond Carter, Administrator
Permits & Compliance Bureau

Charles Thoits, NH Fish & Game Dept.

USEPA-NPDES Program Operations Section

PRB/2577/lm

TABLE OF CONTENTS

JAN 21 1992

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 S-0 pH Data

VI. MONTHLY SUMMARY REPORTS

I. EXECUTIVE SUMMARY

JAN 21 1992

PSNH operates four (4) environmental monitoring stations. Two of the monitoring stations record seasonal river temperatures 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 outfall of the discharge canal (S-0) records dissolved oxygen, pH, and temperature. Figure 1 displays 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 1990 through May 1991.

During the year, there were four (4) major outages of ten days or longer. These are summarized as follows:

STATION	PARAMETER	START	STOP	CAUSE
N-10	TEMP	6/1	6/22	DELAYED NEW SYSTEM INSTALLATION
N-5	pH	11/7	11/20	FAILED PROBE COMPONENT
N-5	pH	2/24	3/8	FAILED PROBE COMPONENT HOUSING
S-0	DO	5/10	5/31	FAILED PROBE AND MOTHERBOARD

Several data outages also occurred during the year that 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. provides 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 and reported 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. provides a summary of parameter average data on a monthly basis. pH readings at Station S-0 were below 6.5 SU for much of the year due to naturally occurring conditions. Table 3. displays data for Station N-5 which verifies the pH of ambient waters. On occasion, slight pH differentials beyond normal were recorded between monitoring stations. This is generally caused by probe fouling as explained in Table 3.

It is important to note that the record established by 17 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. Dissolved oxygen levels have rarely fallen below the State of New Hampshire Class B water quality standard at either Station S-0 or the downstream areas of Hooksett Pond. 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.

STATION	START	STOP	CAUSE
STATION S-0	1/15/77	1/15/77	DELAYED NEW SYSTEM INSTALLATION
STATION S-0	1/15/77	1/15/77	FAILED PROBE CO-ORDINATE
STATION S-0	1/15/77	1/15/77	FAILED PROBE CO-ORDINATE HOLDING
STATION S-0	1/15/77	1/15/77	FAILED PROBE AND M-RECORDING

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:

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

Stations N-5 and S-0 are kept operational year-round.
Stations N-10 and S-4 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:

- o YSI RTD sensor with 250 feet of cable (installed in river)
- o YSI Platinum RTD sensor
- o Hagan temperature transmitter
- o Radio transmitter (RT)
- o CR 21 data logger
- o Panasonic cassette recorder
- o Rexnord Model 1400 Isolator



JAN 21 1992

Public Service of New Hampshire

May 11, 1990

State of New Hampshire
Fish & Game Department
34 Bridge Street
Concord, NH 03301

ATTENTION: Bill Ingham

REFERENCE: NPDES NO. NH0001465
Public Service of New Hampshire
Merrimack Generating Station, Bow, N. H.
Environmental Monitoring Program

Dear Bill,

As we discussed in our conversation on May 10, 1990, the ambient river temperature monitoring station N-10 will not be installed for operation until early June.

In the process of replacing the temperature monitoring system with a new one, we encountered a problem interfacing with the present radio system. The transmitter we need to feed the data to the radio system which is connected to the station computer, is not easily acquired.

For this reason we have asked Yellow Springs Instruments to fabricate two new probe cable assemblies for the present temperature system and install them upon delivery. In the interim we will appropriate a suitable transmitter, and have the new system installed in a timely manner.

If you have any questions, please call me at 669-4000, extension 2684.

Very truly yours,

P. R. Basiliere
Environmental Analyst

PRB/2:12/4432/lm

cc: New Hampshire Department of Environmental Services
Water Supply and Pollution Control Division

United States Environmental Protection Agency - Region I

TABLE 1. SUMMARY OF MONTHLY AVERAGE DATA

ANNUAL REPORT

PUBLIC SERVICE OF NEW HAMPSHIRE

MERRIMACK GENERATING STATION

ENVIRONMENTAL MONITORING PROGRAM

	<u>Month</u>	<u>N-10 Temp.</u>	<u>N-5</u>		<u>Temp.</u>	<u>S-0</u>		<u>S-4 Temp.</u>
			<u>D.O.</u>	<u>pH</u>		<u>D.O.</u>	<u>pH</u>	
First Quarter	June	19.6	9.0	6.6	24.1	8.0	6.8	19.9
	July	23.8	9.0	6.9	31.6	7.6	7.1	28.5
	Aug	23.4	7.9	7.0	32.0	6.7	6.9	25.2
Second Quarter	Sept.	18.8	8.4	7.0	27.8	7.8	7.0	21.9
	Oct.	12.6	10.2	6.7	24.2	8.1	6.4	15.1
	Nov.	4.5	11.8	6.7	16.3	9.1	6.7	7.3
Third Quarter	Dec.	NA	12.6	6.7	14.4	11.0	6.6	NA
	Jan.	NA	NA	6.9	13.8	NA	6.9	NA
	Feb.	NA	NA	6.9	15.9	NA	6.8	NA
Fourth Quarter	March	NA	NA	6.6	14.3	NA	6.7	9.5
	April	9.0	NA	6.6	17.7	NA	6.7	12.0
	May	17.3	9.6	6.8	25.7	8.0	6.8	20.2

Temperature Units = Degrees Centigrade

Dissolved Oxygen Units = mg/liter

pH Units = Standard Units

NA = Station not in service during winter months

PRB/2496/LM

TABLE 2. SUMMARY OF MAJOR EQUIPMENT MALFUNCTIONS

<u>DATE</u>	<u>STATION</u>	<u>PARAMETERS</u>	<u>CAUSE/REMEDIAL ACTION</u>
6/1 - 6/22	N10	TEMP	New temperature system installation was delayed. Backup data was used.
6/20 - 6/27	S0	D.O.	Failed motherboard components due to lightning strike. Replaced with backup motherboards.
7/23 - 7/26	S0	D.O. TEMP	Failed temperature controller and D.O. motherboard due to lightning strike. Replaced with new controller and repaired D.O. motherboards.
8/6 - 8/9	S0	D.O.	Unknown
9/4 - 9/7	N5	pH	pH probe was severed from its PVC housing mount due to floating debris. New probe was mounted on steel conduit with PVC mounting.
11/7 - 11/20	N5	pH	Failed capacitors on motherboard caused by chafed component leads to preamp. Replaced motherboard, and repaired wire leads.
2/5 - 2/8	S0	pH TEMP	Failed chips in datalogger caused program failure. LCD would not respond to keypad prompt. Replaced with backup datalogger.
2/12 - 2/14	N5	pH	Failed in-line fuse. Replaced.
2/24 - 3/8	N5	pH	Failed pH probe housing allowed water to flood the preamp and components. Replaced.
4/9 - 4/12	N5	pH	pH probe housing has a small water leak. Drained small amount of water and resealed.
4/15 - 4/19	N5	pH	pH probe housing leaked at the threads. Resealed.

5/10 - 5/31

SO D.O.

Failed probe, probe lead conductor and motherboards from a lightning surge. Replaced boards and tested, replaced probe and tested, replaced probe lead conductor and tested. Electronically calibrated. Zeroed probe. Glitches in the data continue to occur into next reporting period.

CAUSE: REMEDIAL ACTION

Failed motherboard components due to lightning strike. Replaced with new motherboards.

5/21 - 5/24

SO ALL

Failed datalogger program. Reprogrammed & reset.

Failed temperature controller and D.O. motherboard due to lightning strike. Replaced with new controller and replaced D.O. motherboards.

Removed D.O. of probe was reversed from the PVC housing mount due to floating debris. New probe was mounted on steel mount with PVC housing.

Failed separator in motherboards caused by loose component leads in pressure. Replaced motherboards and replaced wire leads.

Failed chip in datalogger caused program failure. CPU will not respond to keypad prompts. Replaced with new datalogger.

Failed probe housing allowed water to flow into pressure components. Replaced.

Probe housing has a small leak. Replaced seal around probe and resealed.

Probe housing reversed from PVC housing. Replaced.

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR JUN 1990

STATION:ZERO

PARAMETER:DISSOLVED OXYGEN (MG/L)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 JUN 90	7.791	1030	7.276	6.750	2100	92
2 JUN 90	7.319	1045	7.069	6.650	0730	96
3 JUN 90	7.401	1600	6.938	6.484	2245	96
4 JUN 90	6.759	1245	6.441	5.727	2330	96
5 JUN 90	6.453	1015	6.083	5.496	2345	96
6 JUN 90	6.681	0730	6.117	5.494	0030	96
7 JUN 90	9.640	1815	7.687	6.195	0645	96
8 JUN 90	9.510	1715	8.949	8.440	0700	96
9 JUN 90	9.580	2330	9.053	8.620	0630	96
10 JUN 90	9.750	2215	8.766	8.410	0345	96
11 JUN 90	9.590	1115	8.665	8.210	2345	96
12 JUN 90	10.060	1645	8.688	8.000	0500	96
13 JUN 90	10.160	1230	9.281	8.050	2315	96
14 JUN 90	10.530	1600	9.000	7.882	0730	96
15 JUN 90	9.970	0930	9.137	8.470	0400	96
16 JUN 90	9.740	1600	8.804	8.180	2330	96
17 JUN 90	9.510	1630	8.701	7.850	0645	96
18 JUN 90	9.730	1445	8.568	7.903	2345	96
19 JUN 90	9.190	1430	8.156	7.628	2315	96
20 JUN 90	8.050	0215	7.833	7.671	0100	22
21 JUN 90	8.000	1330	8.000	8.000	1330	1
22 JUN 90	-----	-----	-----	-----	-----	0
23 JUN 90	-----	-----	-----	-----	-----	0
24 JUN 90	-----	-----	-----	-----	-----	0
25 JUN 90	-----	-----	-----	-----	-----	0
26 JUN 90	7.178	2345	7.178	7.178	2345	1
27 JUN 90	7.824	2345	7.279	6.878	2015	35
28 JUN 90	8.530	1300	7.787	7.164	1115	91
29 JUN 90	8.880	0845	8.299	8.110	1900	96
30 JUN 90	9.350	0630	8.824	7.960	1900	96

AVERAGE	8.738		8.022	7.438		
STD DEV	1.232		0.964	0.948		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR JUL 1990

STATION:ZERO

PARAMETER:DISSOLVED OXYGEN (MG/L)

DAY	--- MAXIMUM --- (PARAM) TIME	DAILY AVERAGE	--- MINIMUM --- (PARAM) TIME	NO INT.
1 JUL 90	9.200 1330	8.689	7.940 0515	96
2 JUL 90	8.750 0000	8.319	7.304 1500	96
3 JUL 90	8.350 1030	8.027	7.768 1145	96
4 JUL 90	8.010 0530	7.769	7.512 2230	96
5 JUL 90	7.874 2330	7.691	7.542 0000	96
6 JUL 90	8.510 1330	8.086	7.646 0215	96
7 JUL 90	8.860 0745	8.390	8.060 1645	96
8 JUL 90	8.650 0430	8.438	8.110 0730	96
9 JUL 90	8.490 1030	8.090	7.695 2245	96
10 JUL 90	7.831 0600	7.717	7.602 2200	96
11 JUL 90	8.270 0745	7.762	7.207 2200	96
12 JUL 90	8.370 0930	7.684	7.250 1345	96
13 JUL 90	8.210 0915	7.602	7.089 2115	96
14 JUL 90	8.050 1030	7.566	7.105 2130	96
15 JUL 90	7.893 1130	7.262	6.790 2045	96
16 JUL 90	7.431 0000	6.954	6.423 2315	96
17 JUL 90	7.715 0800	7.191	6.561 0000	96
18 JUL 90	8.000 1230	7.536	7.036 0015	96
19 JUL 90	7.909 0945	7.697	7.398 2115	96
20 JUL 90	7.887 0945	7.692	7.413 0000	96
21 JUL 90	8.490 1245	8.085	7.524 2245	96
22 JUL 90	8.430 1430	7.728	6.948 2215	96
23 JUL 90	8.340 1100	7.746	6.868 0115	86
24 JUL 90	-----	-----	-----	0
25 JUL 90	-----	-----	-----	0
26 JUL 90	7.830 0945	7.132	6.732 2130	59
27 JUL 90	7.480 0830	6.990	6.586 2115	96
28 JUL 90	7.841 1100	7.040	6.616 2215	96
29 JUL 90	7.466 1400	6.825	6.242 2045	96
30 JUL 90	7.299 0915	6.620	5.890 1800	96
31 JUL 90	7.089 1600	6.418	5.802 0530	85
AVERAGE	8.087	7.612	7.126	
STD DEV	0.492	0.555	0.604	

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR AUG 1990

STATION:ZERO

PARAMETER:DISSOLVED OXYGEN (MG/L)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 AUG 90	7.990	1600	7.241	6.093	0300	96
2 AUG 90	7.644	0115	7.099	6.675	0645	96
3 AUG 90	7.538	1230	6.885	6.485	2345	96
4 AUG 90	7.332	1330	6.752	6.328	2215	96
5 AUG 90	7.413	1115	6.634	6.150	2030	96
6 AUG 90	6.366	0900	6.135	6.002	1815	61
7 AUG 90	6.351	0645	6.155	6.004	0315	18
8 AUG 90						0
9 AUG 90	7.444	1400	6.815	6.617	2015	39
10 AUG 90	7.429	0930	6.806	6.627	0515	96
11 AUG 90	7.040	0915	6.567	6.299	2200	96
12 AUG 90	8.100	1400	6.804	6.172	0430	96
13 AUG 90	7.722	1245	6.747	6.261	0745	96
14 AUG 90	7.573	1245	6.678	6.126	0315	96
15 AUG 90	7.469	1115	6.480	6.115	0645	96
16 AUG 90	6.963	1045	6.416	6.197	2330	96
17 AUG 90	7.079	1300	6.476	6.158	0915	96
18 AUG 90	6.964	1545	6.454	6.259	2245	96
19 AUG 90	6.825	1400	6.456	6.243	0300	96
20 AUG 90	8.180	1300	6.881	6.393	0045	96
21 AUG 90	7.518	0800	6.964	6.711	1500	96
22 AUG 90	7.629	0745	6.923	6.375	0700	96
23 AUG 90	6.900	0045	6.652	6.481	1500	96
24 AUG 90	7.110	1030	6.561	6.291	1215	96
25 AUG 90	7.215	0845	6.683	6.156	2345	96
26 AUG 90	7.238	1430	6.555	6.094	2245	96
27 AUG 90	6.637	1830	6.304	6.096	0030	96
28 AUG 90	6.875	1615	6.465	6.142	0215	96
29 AUG 90	7.720	1815	6.888	6.456	0030	94
30 AUG 90	7.754	0945	7.157	6.822	2045	96
31 AUG 90	7.558	0800	7.053	6.712	1945	96
AVERAGE	7.319		6.690	6.318		
STD DEV	0.461		0.278	0.231		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR SEP 1990

STATION:ZERO

PARAMETER:DISSOLVED OXYGEN (MG/L)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 SEP 90	7.327	1700	6.935	6.659	2100	96
2 SEP 90	7.374	0845	6.772	6.380	2330	96
3 SEP 90	7.496	1930	6.850	6.107	2200	96
4 SEP 90	7.931	0845	7.506	6.921	0715	96
5 SEP 90	8.254	1215	7.355	6.664	2330	96
6 SEP 90	7.960	1230	7.128	6.076	0915	87
7 SEP 90	7.881	0645	7.724	7.291	1500	96
8 SEP 90	8.210	1145	8.047	7.884	0015	96
9 SEP 90	8.670	0930	8.240	8.050	1930	96
10 SEP 90	8.190	0730	8.043	7.704	1315	96
11 SEP 90	8.380	1045	8.057	7.915	2330	96
12 SEP 90	8.050	1600	7.943	7.850	2245	96
13 SEP 90	8.120	1100	7.896	7.768	1745	96
14 SEP 90	8.010	0645	7.730	7.166	1715	96
15 SEP 90	7.779	0445	7.665	7.471	1500	96
16 SEP 90	8.260	1145	7.846	7.565	2330	96
17 SEP 90	8.270	0915	7.827	7.339	2345	96
18 SEP 90	8.810	0815	8.165	7.307	0145	96
19 SEP 90	8.990	0845	8.306	7.907	2015	96
20 SEP 90	8.800	0845	8.217	7.742	1200	96
21 SEP 90	8.620	0400	8.091	7.619	2145	96
22 SEP 90	8.420	0715	8.088	7.724	0100	96
23 SEP 90	8.470	1415	8.089	7.582	0030	96
24 SEP 90	8.410	0745	8.224	7.666	1800	96
25 SEP 90	8.620	1100	8.062	7.467	1830	96
26 SEP 90	9.040	1100	8.145	7.246	0545	96
27 SEP 90	9.240	1300	8.330	7.337	2000	96
28 SEP 90	8.430	1645	7.909	7.460	2345	96
29 SEP 90	8.600	1215	7.755	7.409	1015	96
30 SEP 90	8.920	2145	7.930	7.542	0000	96
AVERAGE	8.318		7.829	7.361		
STD DEV	0.479		0.430	0.522		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR JUN 1990

STATION:ZERO

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 JUN 90	28.120	1500	26.951	25.790	0000	91
2 JUN 90	30.390	1830	28.716	27.030	0645	96
3 JUN 90	30.300	1945	29.606	29.030	0945	96
4 JUN 90	30.580	1500	30.054	28.960	2345	96
5 JUN 90	29.940	1530	29.245	28.520	0615	96
6 JUN 90	29.130	0000	25.229	22.860	1715	96
7 JUN 90	23.870	1530	22.611	20.340	2345	96
8 JUN 90	22.010	1330	19.960	18.870	0645	96
9 JUN 90	19.830	1315	19.005	18.540	2330	96
10 JUN 90	19.130	1330	18.586	18.210	2100	96
11 JUN 90	18.270	0000	17.966	17.480	2345	96
12 JUN 90	20.500	1515	17.989	17.090	0545	96
13 JUN 90	19.290	1545	18.245	17.050	0215	96
14 JUN 90	20.160	1430	19.224	18.250	0600	96
15 JUN 90	20.730	1700	19.669	18.660	0600	96
16 JUN 90	21.920	1730	20.637	19.300	0545	96
17 JUN 90	22.690	1630	21.521	20.360	0615	96
18 JUN 90	22.950	1845	22.143	21.320	0645	96
19 JUN 90	25.190	2215	23.301	22.150	0500	96
20 JUN 90	24.770	0000	23.814	23.090	2315	96
21 JUN 90	25.940	0600	25.438	22.720	1230	94
22 JUN 90	26.600	1815	25.430	24.740	2345	92
23 JUN 90	26.360	1300	25.146	24.300	2330	96
24 JUN 90	26.290	1515	25.387	24.270	0045	96
25 JUN 90	26.730	1015	25.914	24.270	0015	96
26 JUN 90	33.070	2345	27.455	24.320	0245	66
27 JUN 90	33.200	1530	30.740	25.600	2345	35
28 JUN 90	33.200	1745	30.266	25.480	0015	91
29 JUN 90	31.990	0000	30.322	26.030	0800	96
30 JUN 90	30.560	0000	22.608	20.470	1215	96
AVERAGE	25.790		24.106	22.503		
STD DEV	4.699		4.228	3.670		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

JAN 21 1992

MONTHLY SUMMARY REPORT FOR JUL 1990

STATION: ZERO

PARAMETER:

TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 JUL 90	24.760	2345	22.878	21.190	1030	96
2 JUL 90	30.550	1845	28.036	24.780	0400	96
3 JUL 90	31.610	2115	29.742	27.300	0730	96
4 JUL 90	33.250	2145	31.324	29.160	0600	96
5 JUL 90	33.020	0000	32.167	30.830	0815	96
6 JUL 90	31.960	1730	30.017	26.000	0800	96
7 JUL 90	31.060	1615	28.683	24.830	0845	96
8 JUL 90	28.820	0015	27.189	25.880	0400	96
9 JUL 90	33.820	2030	30.304	26.580	0630	96
10 JUL 90	33.630	2100	32.662	31.390	0745	96
11 JUL 90	33.170	2215	31.294	27.590	0700	96
12 JUL 90	32.200	2045	30.320	26.690	0815	96
13 JUL 90	32.550	1700	31.073	27.530	0700	96
14 JUL 90	33.110	2100	31.077	27.710	0945	96
15 JUL 90	34.980	1730	32.889	30.180	1000	96
16 JUL 90	34.870	1400	34.132	31.940	0000	96
17 JUL 90	35.910	2130	34.112	29.800	0630	96
18 JUL 90	36.730	2100	35.492	33.750	0545	96
19 JUL 90	36.720	1945	35.950	34.740	0900	96
20 JUL 90	36.910	1330	36.033	34.200	2345	96
21 JUL 90	33.790	0000	29.482	28.050	1100	96
22 JUL 90	29.950	1945	28.892	27.910	1345	96
23 JUL 90	36.550	1945	32.034	28.090	0815	86
24 JUL 90	-----	-----	-----	-----	-----	0
25 JUL 90	-----	-----	-----	-----	-----	0
26 JUL 90	35.930	2145	34.969	31.290	0930	61
27 JUL 90	36.300	1945	35.232	33.030	0745	96
28 JUL 90	36.210	1600	34.391	30.940	1000	96
29 JUL 90	34.910	1830	32.902	29.990	1030	96
30 JUL 90	34.460	2000	32.732	29.610	0800	96
31 JUL 90	35.160	0200	31.018	28.800	1245	96

AVERAGE	33.548		31.622	28.958		
STD DEV	2.760		2.952	3.086		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR AUG 1990

STATION:ZERO

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 AUG 90	29.760	0000	28.250	27.140	2315	96
2 AUG 90	35.370	2015	33.322	27.200	0000	96
3 AUG 90	36.220	2100	34.988	33.630	0745	96
4 AUG 90	35.630	0000	33.804	32.060	0500	96
5 AUG 90	36.740	1700	35.163	32.560	0815	96
6 AUG 90	36.570	0115	35.607	34.680	0715	96
7 AUG 90	35.160	0000	33.755	29.870	0700	96
8 AUG 90	34.660	2145	34.005	33.070	1030	96
9 AUG 90	34.550	0000	32.950	31.370	1000	94
10 AUG 90	32.140	0000	31.192	28.880	0945	96
11 AUG 90	32.110	2100	31.329	28.760	1045	96
12 AUG 90	32.060	0000	30.140	27.250	1215	96
13 AUG 90	31.770	0000	30.334	26.800	1100	96
14 AUG 90	31.780	2015	31.417	30.740	1115	96
15 AUG 90	31.670	0000	30.017	27.280	0945	96
16 AUG 90	31.950	2245	30.925	29.600	0815	96
17 AUG 90	32.650	2145	31.977	31.250	0745	96
18 AUG 90	33.520	1945	32.876	32.160	0830	96
19 AUG 90	33.300	0000	31.821	29.930	2315	96
20 AUG 90	31.700	1630	29.679	26.800	0715	96
21 AUG 90	31.720	1515	29.732	25.690	0730	96
22 AUG 90	32.520	1745	31.161	29.550	0715	96
23 AUG 90	32.350	1745	31.518	30.260	0800	96
24 AUG 90	32.270	1745	31.671	30.740	0500	96
25 AUG 90	31.920	0000	31.112	30.370	0800	96
26 AUG 90	32.490	2215	30.187	26.890	1015	96
27 AUG 90	34.270	1715	32.626	30.950	0745	96
28 AUG 90	34.050	2015	32.514	30.080	0630	96
29 AUG 90	33.940	1630	32.672	28.420	0815	94
30 AUG 90	33.780	1645	31.980	27.850	0730	95
31 AUG 90	34.140	1745	31.899	27.260	0715	96
AVERAGE	33.315		31.956	29.648		
STD DEV	1.705		1.726	2.305		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

JAN 21 1992

MONTHLY SUMMARY REPORT FOR SEP 1990

STATION:ZERO

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 SEP 90	33.710	1915	32.243	28.730	1045	96
2 SEP 90	33.660	1645	31.871	28.970	1015	96
3 SEP 90	33.300	0000	31.837	28.070	2345	96
4 SEP 90	27.710	0000	25.186	23.490	1015	96
5 SEP 90	28.270	2345	25.365	24.150	1015	96
6 SEP 90	33.230	2130	32.200	28.770	0000	96
7 SEP 90	33.310	1800	32.648	30.980	2345	96
8 SEP 90	31.130	1915	30.517	29.700	0830	96
9 SEP 90	30.740	0000	29.493	26.560	0900	96
10 SEP 90	31.200	1915	30.469	29.330	0730	96
11 SEP 90	32.070	1745	30.943	29.390	0900	96
12 SEP 90	32.050	2045	31.534	31.010	0615	96
13 SEP 90	32.790	1630	31.758	30.470	0700	96
14 SEP 90	31.870	0000	31.255	29.460	0615	96
15 SEP 90	31.830	0015	31.277	30.700	1015	96
16 SEP 90	30.850	0000	29.108	26.440	1100	96
17 SEP 90	29.430	0000	27.985	26.140	0800	96
18 SEP 90	27.610	0000	26.486	23.820	0700	96
19 SEP 90	27.500	1915	25.500	21.590	0800	96
20 SEP 90	27.230	0000	26.033	22.280	0800	96
21 SEP 90	27.520	1915	26.785	25.320	0745	96
22 SEP 90	27.360	0215	27.023	26.140	0745	96
23 SEP 90	27.580	2000	26.891	26.190	0830	96
24 SEP 90	27.170	0000	26.470	25.750	0730	96
25 SEP 90	27.300	1845	26.324	24.670	0730	96
26 SEP 90	26.850	0000	22.325	19.440	1130	96
27 SEP 90	21.170	2245	19.959	16.150	1030	96
28 SEP 90	21.930	1700	21.043	18.640	0845	96
29 SEP 90	22.400	1900	21.711	20.990	0700	96
30 SEP 90	22.430	0115	21.411	20.300	0545	96
AVERAGE	29.040		27.788	25.788		
STD DEV	3.665		3.817	4.024		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR SEP 1990

STATION: S-4

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 SEP 90	26.730	1915	24.913	23.560	0700	96
2 SEP 90	27.350	2145	24.999	23.370	0945	96
3 SEP 90	27.370	0115	25.230	23.850	1100	96
4 SEP 90	25.210	0145	23.658	22.470	1045	96
5 SEP 90	25.140	1745	23.529	22.160	1245	96
6 SEP 90	28.650	1815	24.722	23.150	0530	96
7 SEP 90	29.700	0900	25.052	23.170	0245	96
8 SEP 90	26.310	2300	23.957	22.170	0530	96
9 SEP 90	26.060	1845	23.961	21.910	1630	96
10 SEP 90	25.540	0830	23.741	21.440	1515	96
11 SEP 90	26.850	1800	24.927	21.770	0945	96
12 SEP 90	26.860	0015	24.436	22.260	1115	96
13 SEP 90	27.650	1800	25.708	21.920	1015	96
14 SEP 90	26.340	0100	23.431	22.080	1530	96
15 SEP 90	27.070	1000	24.114	22.110	2315	96
16 SEP 90	26.040	0115	22.897	20.430	1230	96
17 SEP 90	22.400	0300	20.638	19.460	1300	96
18 SEP 90	21.710	2245	19.772	17.810	2100	96
19 SEP 90	23.690	1945	19.779	16.470	1115	96
20 SEP 90	21.440	0330	19.050	17.020	0645	96
21 SEP 90	22.470	2130	19.992	17.280	1045	96
22 SEP 90	23.230	0745	19.589	16.890	1445	96
23 SEP 90	21.570	1415	19.890	17.120	0000	96
24 SEP 90	21.740	0430	19.170	16.850	1400	96
25 SEP 90	21.660	0600	18.740	15.680	1030	96
26 SEP 90	21.440	0530	17.397	15.940	0930	96
27 SEP 90	19.030	1630	17.418	16.080	0800	90
28 SEP 90	19.410	1700	18.187	17.010	0930	96
29 SEP 90	19.840	2015	18.642	17.630	1100	95
30 SEP 90	20.010	0115	19.027	18.080	1200	96
AVERAGE	24.284		21.886	19.905		
STD DEV	3.021		2.791	2.823		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

JAN 21 1992

MONTHLY SUMMARY REPORT FOR AUG 1990

STATION: S-4

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 AUG 90	29.110	0000	27.685	26.800	1030	96
2 AUG 90	31.900	2145	29.649	26.480	0230	96
3 AUG 90	33.190	2045	31.906	31.000	0945	96
4 AUG 90	33.140	1615	31.645	29.510	0945	96
5 AUG 90	34.550	2100	32.743	31.430	1200	96
6 AUG 90	33.700	0445	32.919	31.820	1500	96
7 AUG 90	32.480	1545	31.316	28.980	0930	96
8 AUG 90	30.250	0030	26.275	24.530	0845	96
9 AUG 90	25.330	0000	23.705	22.740	2345	95
10 AUG 90	22.890	2345	22.541	22.150	1000	96
11 AUG 90	23.410	1800	23.127	22.880	0000	96
12 AUG 90	23.280	0000	22.767	22.370	0900	96
13 AUG 90	22.860	2300	22.421	22.000	1115	96
14 AUG 90	23.600	2215	23.124	22.780	0745	96
15 AUG 90	23.700	1830	23.415	23.000	0930	96
16 AUG 90	23.410	0000	22.736	22.300	0845	96
17 AUG 90	25.040	1315	23.203	22.810	0845	96
18 AUG 90	24.130	1730	23.762	23.380	0845	96
19 AUG 90	24.150	0230	23.991	23.510	2345	96
20 AUG 90	23.500	0000	23.060	22.580	1100	96
21 AUG 90	24.380	2230	22.857	21.960	1100	96
22 AUG 90	24.430	1530	23.050	22.300	0730	96
23 AUG 90	25.460	1815	23.557	22.390	0600	96
24 AUG 90	25.240	2030	23.503	22.350	0830	96
25 AUG 90	24.700	0045	22.507	22.000	2345	96
26 AUG 90	22.780	1900	22.145	21.550	0915	96
27 AUG 90	25.220	1630	23.278	22.590	0000	96
28 AUG 90	26.790	1800	24.047	23.440	0900	96
29 AUG 90	25.730	1730	24.460	21.530	1315	90
30 AUG 90	26.350	2030	24.762	23.770	1115	96
31 AUG 90	27.240	1745	25.092	23.480	0830	96
AVERAGE	26.514		25.201	24.207		
STD DEV	3.735		3.457	3.093		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR JUL 1990

STATION: S-4

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 JUL 90	22.360	1815	21.331	20.750	0445	96
2 JUL 90	25.820	1530	22.395	20.720	0745	96
3 JUL 90	26.060	2230	23.604	21.660	0715	96
4 JUL 90	28.350	2045	25.932	23.250	1000	96
5 JUL 90	28.890	2145	26.444	23.300	1000	96
6 JUL 90	27.320	0230	24.244	22.480	0715	96
7 JUL 90	25.740	1700	23.516	21.490	0945	96
8 JUL 90	25.750	2215	24.208	21.630	0800	96
9 JUL 90	30.000	2215	26.534	22.480	1000	96
10 JUL 90	30.490	2215	28.244	25.480	1200	96
11 JUL 90	29.660	0000	27.498	24.180	1000	96
12 JUL 90	29.560	0045	27.302	23.880	1000	96
13 JUL 90	29.270	2145	27.798	25.000	0945	96
14 JUL 90	30.360	2300	28.091	24.290	0930	96
15 JUL 90	32.200	1900	30.507	29.210	0715	96
16 JUL 90	32.910	1645	31.412	29.680	0130	96
17 JUL 90	33.090	1715	31.578	28.820	0800	96
18 JUL 90	34.580	1915	32.583	30.800	1145	96
19 JUL 90	33.890	0015	33.102	31.560	0645	96
20 JUL 90	35.280	1530	33.368	31.510	0715	96
21 JUL 90	33.990	0045	29.260	27.150	1000	96
22 JUL 90	29.060	1815	28.482	27.560	1030	96
23 JUL 90	34.050	1945	30.171	28.090	1045	96
24 JUL 90	32.590	0015	31.101	29.070	1015	95
25 JUL 90	32.030	1745	30.203	25.350	1045	96
26 JUL 90	32.770	2345	30.296	26.260	1115	96
27 JUL 90	33.500	1645	31.628	28.740	0930	95
28 JUL 90	33.410	1845	31.867	29.020	1215	96
29 JUL 90	32.600	2015	30.784	28.900	0945	96
30 JUL 90	32.680	1715	31.227	28.550	1045	96
31 JUL 90	32.070	0415	30.053	29.040	1315	96
AVERAGE	30.656		28.541	26.126		
STD DEV	3.201		3.306	3.366		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

JAN 21 1992

MONTHLY SUMMARY REPORT FOR JUN 1990

STATION: S-4

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 JUN 90	17.090	1830	16.250	15.410	0545	96
2 JUN 90	17.820	1745	17.030	16.150	0600	96
3 JUN 90	19.020	1645	18.209	17.310	0130	96
4 JUN 90	18.730	1230	18.354	17.820	2345	96
5 JUN 90	18.250	1730	17.702	17.050	0545	96
6 JUN 90	17.260	0000	16.813	16.450	2345	96
7 JUN 90	17.450	1730	16.788	16.190	0545	96
8 JUN 90	18.190	1430	17.453	16.600	0445	96
9 JUN 90	17.660	1345	17.406	17.110	0730	96
10 JUN 90	17.290	0000	17.024	16.820	2330	96
11 JUN 90	16.810	0000	16.440	15.890	2345	96
12 JUN 90	16.910	1700	16.176	15.340	0600	96
13 JUN 90	17.890	1645	16.969	15.920	0545	96
14 JUN 90	29.350	1215	20.971	16.900	0230	96
15 JUN 90	22.970	0000	20.555	20.020	2345	95
16 JUN 90	19.970	0000	19.019	18.530	2345	96
17 JUN 90	19.160	1730	18.494	17.730	0630	96
18 JUN 90	23.170	2215	20.207	18.120	0745	96
19 JUN 90	22.120	1700	21.732	21.330	0745	96
20 JUN 90	21.560	0000	20.970	20.410	2345	96
21 JUN 90	20.390	0000	20.183	19.810	2345	96
22 JUN 90	23.510	1815	21.487	19.480	0615	94
23 JUN 90	23.660	1645	22.854	22.580	2315	96
24 JUN 90	23.780	1300	22.931	22.200	0815	95
25 JUN 90	23.840	1515	23.435	23.070	2315	96
26 JUN 90	25.090	2000	23.896	22.900	0230	96
27 JUN 90	27.440	1630	25.969	23.440	0845	96
28 JUN 90	27.850	1515	24.900	23.140	0415	96
29 JUN 90	28.280	0130	26.006	22.580	0800	96
30 JUN 90	25.800	0000	22.100	21.080	2230	96
AVERAGE	21.277		19.944	18.913		
STD DEV	3.887		3.038	2.723		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR SEP 1990

STATION:N-10

PARAMETER:

TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 SEP 90	23.200	1345	22.554	21.750	0830	90
2 SEP 90	23.220	1515	22.278	21.780	0145	69
3 SEP 90	23.110	1345	22.586	21.770	0415	78
4 SEP 90	22.920	1800	22.029	21.640	0630	96
5 SEP 90	21.970	1430	21.761	21.620	0530	84
6 SEP 90	22.040	1415	21.893	21.740	0100	80
7 SEP 90	22.010	1715	21.929	21.480	2345	66
8 SEP 90	21.980	1430	21.273	20.610	0615	96
9 SEP 90	21.120	0000	20.411	19.440	0915	96
10 SEP 90	20.770	1615	20.212	19.490	0715	74
11 SEP 90	22.040	1615	21.275	20.050	0815	50
12 SEP 90	21.910	2100	21.432	20.750	1045	55
13 SEP 90	21.840	0000	21.121	17.200	1130	95
14 SEP 90	21.160	1700	20.788	20.440	0930	96
15 SEP 90	21.020	1515	20.561	20.150	2345	84
16 SEP 90	20.110	0000	19.430	18.780	1015	95
17 SEP 90	18.990	0000	18.217	17.460	2345	96
18 SEP 90	17.390	0000	16.485	15.200	2330	95
19 SEP 90	16.180	1645	15.624	14.920	0700	95
20 SEP 90	16.180	1600	15.743	15.150	0915	95
21 SEP 90	16.380	1815	15.791	15.110	0615	96
22 SEP 90	16.030	0000	15.723	15.300	0915	96
23 SEP 90	16.230	1445	15.736	15.280	0700	96
24 SEP 90	15.730	1600	15.269	14.760	0715	96
25 SEP 90	15.370	1530	14.862	14.230	0600	96
26 SEP 90	15.680	1445	15.052	14.410	0630	96
27 SEP 90	16.220	1745	15.498	14.790	0645	96
28 SEP 90	16.720	1730	16.164	15.600	0815	78
29 SEP 90	17.290	1800	16.742	16.180	0930	96
30 SEP 90	16.990	0000	16.535	16.400	0930	96
AVERAGE	19.393		18.832	18.116		
STD DEV	2.871		2.865	2.863		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

JAN 21 1992

MONTHLY SUMMARY REPORT FOR AUG 1990

STATION: N-10

PARAMETER:

TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 AUG 90	26.670	0000	26.081	25.580	0845	96
2 AUG 90	26.310	1630	25.610	24.860	0700	96
3 AUG 90	26.600	1630	25.518	24.420	0715	96
4 AUG 90	27.120	1745	25.943	24.860	0645	96
5 AUG 90	27.510	1615	26.476	25.590	0530	96
6 AUG 90	26.390	0000	25.791	25.000	2345	96
7 AUG 90	24.990	0000	24.420	23.910	2345	96
8 AUG 90	24.160	1615	23.601	23.100	0715	96
9 AUG 90	23.310	0000	21.961	20.990	1930	85
10 AUG 90	22.820	1930	21.713	20.560	0245	96
11 AUG 90	24.310	2100	23.066	21.990	0000	96
12 AUG 90	24.370	1945	23.392	22.230	1145	96
13 AUG 90	24.450	1815	23.774	23.070	0830	96
14 AUG 90	24.380	1400	24.073	23.160	0830	96
15 AUG 90	24.420	1430	24.108	23.410	0900	96
16 AUG 90	24.060	0000	23.061	21.910	0915	66
17 AUG 90	24.370	1815	22.952	21.820	0700	78
18 AUG 90	24.530	1515	24.104	22.990	0730	68
19 AUG 90	24.240	0000	23.686	21.600	1200	96
20 AUG 90	23.040	1630	22.324	21.730	0630	96
21 AUG 90	22.280	0000	21.826	21.700	0545	96
22 AUG 90	22.580	2030	21.939	21.680	0615	90
23 AUG 90	21.910	1715	21.769	21.680	0130	84
24 AUG 90	21.980	1415	21.879	21.790	0545	96
25 AUG 90	21.930	1515	21.799	21.340	2200	93
26 AUG 90	22.200	1445	21.508	20.780	0430	96
27 AUG 90	22.580	2345	22.100	21.550	0930	84
28 AUG 90	23.240	1845	22.609	21.970	0815	66
29 AUG 90	23.370	1445	23.049	22.560	0200	50
30 AUG 90	23.490	1815	22.986	22.390	0800	84
31 AUG 90	23.220	1430	22.880	22.260	0730	90
AVERAGE	24.091		23.419	22.661		
STD DEV	1.598		1.485	1.416		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR JUN 1990

STATION:N-10

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 JUN 90	16.670	1800	15.615	14.560	0800	2
2 JUN 90	17.830	1700	17.000	16.170	0600	2
3 JUN 90	19.330	1900	18.415	17.500	0400	2
4 JUN 90	19.000	0300	18.640	18.280	2300	2
5 JUN 90	18.610	1600	18.140	17.670	2300	2
6 JUN 90	17.670	0300	17.170	16.670	1400	2
7 JUN 90	17.830	1600	17.000	16.170	0200	2
8 JUN 90	18.500	1300	17.835	17.170	0600	2
9 JUN 90	18.500	1900	18.085	17.670	0900	2
10 JUN 90	18.280	1400	17.975	17.670	0500	2
11 JUN 90	18.000	0400	17.415	16.830	1500	2
12 JUN 90	17.670	1600	17.030	16.390	0200	2
13 JUN 90	18.610	1500	17.890	17.170	0300	2
14 JUN 90	19.330	1600	18.500	17.670	0500	2
15 JUN 90	19.940	1800	19.275	18.610	0300	2
16 JUN 90	21.940	1800	20.690	19.440	0200	2
17 JUN 90	22.110	2000	21.110	20.110	0100	2
18 JUN 90	22.720	1600	22.000	21.280	0500	2
19 JUN 90	23.060	1900	22.420	21.780	0600	2
20 JUN 90	22.220	0100	21.665	21.110	2345	2
21 JUN 90	21.110	0100	20.695	20.280	2200	2
22 JUN 90	21.770	1815	21.319	20.240	0915	59
23 JUN 90	21.750	0930	21.588	21.310	2330	96
24 JUN 90	22.250	2345	21.552	20.820	0700	96
25 JUN 90	22.350	0130	21.773	21.530	0830	96
26 JUN 90	22.790	1645	22.131	21.630	0000	96
27 JUN 90	22.520	1730	22.157	21.820	0800	96
28 JUN 90	22.840	1730	22.304	21.960	0630	96
29 JUN 90	22.080	0000	21.591	20.820	2345	96
30 JUN 90	20.800	0000	20.151	19.700	2345	96
AVERAGE	20.269		19.638	19.001		
STD DEV	2.047		2.085	2.149		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR JUL 1990

STATION: N-10

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 JUL 90	20.420	1800	19.927	19.640	0230	96
2 JUL 90	20.450	1900	19.898	19.290	0715	96
3 JUL 90	21.170	1730	20.672	20.260	0645	96
4 JUL 90	22.200	1730	21.407	20.820	0615	96
5 JUL 90	22.860	1115	22.230	21.780	0145	90
6 JUL 90	21.850	1500	21.421	20.630	2345	96
7 JUL 90	21.120	1730	20.662	20.150	0715	96
8 JUL 90	22.240	1715	21.242	20.270	0645	96
9 JUL 90	23.000	1845	22.045	21.250	0645	96
10 JUL 90	23.740	1715	22.740	21.820	0700	96
11 JUL 90	23.410	1715	22.827	22.250	0815	96
12 JUL 90	22.780	0000	21.919	21.430	2345	96
13 JUL 90	22.380	1900	21.542	20.700	0830	96
14 JUL 90	23.330	1915	22.144	21.040	0715	96
15 JUL 90	24.280	1715	23.347	22.560	0645	96
16 JUL 90	25.250	1730	24.458	23.780	0830	96
17 JUL 90	26.040	1645	25.098	24.320	0600	96
18 JUL 90	26.900	1645	25.713	24.690	0615	96
19 JUL 90	27.180	1615	26.266	25.460	0600	96
20 JUL 90	27.350	1545	26.446	25.850	0600	96
21 JUL 90	27.350	1515	26.457	25.710	0500	96
22 JUL 90	27.360	1615	26.311	25.260	0645	96
23 JUL 90	26.360	1600	25.875	25.520	2345	96
24 JUL 90	25.510	0000	25.121	23.140	0130	96
25 JUL 90	25.330	1730	24.567	23.880	0845	96
26 JUL 90	26.300	1730	25.234	24.270	0745	96
27 JUL 90	26.840	1715	25.829	24.800	0815	96
28 JUL 90	26.690	1745	26.001	25.310	0845	96
29 JUL 90	27.070	1615	26.292	25.700	0800	96
30 JUL 90	26.980	1645	26.227	25.760	0930	96
31 JUL 90	28.060	1715	26.573	25.420	0630	96
AVERAGE	24.574		23.758	22.992		
STD DEV	2.401		2.285	2.212		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR SEP 1990

STATION:N-5

PARAMETER:DISSOLVED OXYGEN (MG/L)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 SEP 90	8.170	1130	7.962	7.759	2145	96
2 SEP 90	8.310	0845	7.893	7.734	0300	96
3 SEP 90	7.990	2130	7.766	7.550	0715	96
4 SEP 90	8.200	0800	7.715	7.343	1200	96
5 SEP 90	8.180	1015	7.633	7.143	0645	96
6 SEP 90	8.690	2345	8.170	7.341	0915	95
7 SEP 90	9.030	1130	8.505	8.090	1715	96
8 SEP 90	8.590	0015	8.383	8.210	2000	96
9 SEP 90	8.870	0700	8.636	8.490	0145	96
10 SEP 90	8.720	0045	8.493	8.300	1000	96
11 SEP 90	8.520	0300	8.341	7.920	2345	96
12 SEP 90	7.884	0000	7.715	7.487	2330	96
13 SEP 90	8.700	1630	8.036	7.419	0400	96
14 SEP 90	8.730	1715	8.324	8.100	0330	96
15 SEP 90	8.460	0030	8.231	8.030	2130	96
16 SEP 90	8.330	1015	8.161	8.020	0530	96
17 SEP 90	8.490	1530	8.225	7.980	0645	96
18 SEP 90	9.110	1430	8.293	7.980	0815	96
19 SEP 90	8.160	0045	8.029	7.910	0915	96
20 SEP 90	9.360	1515	8.505	7.784	0930	96
21 SEP 90	9.230	0000	9.047	8.950	2330	96
22 SEP 90	8.990	0115	8.819	8.710	1915	96
23 SEP 90	8.750	0000	8.628	8.520	2300	96
24 SEP 90	8.550	0015	8.463	8.400	1015	96
25 SEP 90	8.420	0000	8.339	8.260	0630	96
26 SEP 90	8.310	1445	8.260	8.180	0915	96
27 SEP 90	9.650	1300	8.829	8.150	0930	96
28 SEP 90	9.510	0000	9.462	9.410	2315	96
29 SEP 90	9.420	0030	9.374	9.290	1000	96
30 SEP 90	9.380	0030	9.265	9.190	2115	96
AVERAGE	8.690		8.383	8.122		
STD DEV	0.477		0.477	0.575		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

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MONTHLY SUMMARY REPORT FOR AUG 1990

STATION:N-5

PARAMETER:DISSOLVED OXYGEN (MG/L)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 AUG 90	8.790	1830	8.248	7.746	0830	96
2 AUG 90	8.820	1545	8.313	7.740	0030	96
3 AUG 90	8.910	1715	8.406	7.928	0615	96
4 AUG 90	8.690	1645	8.378	8.030	0430	96
5 AUG 90	8.810	1645	8.385	7.960	0830	96
6 AUG 90	8.180	0030	7.831	7.535	2345	96
7 AUG 90	7.687	1400	7.446	7.053	2145	96
8 AUG 90	7.613	2345	7.306	7.000	0830	96
9 AUG 90	8.110	1115	7.935	7.573	0015	96
10 AUG 90	8.050	0300	7.874	7.692	2215	96
11 AUG 90	7.719	0115	7.606	7.519	1530	96
12 AUG 90	7.790	2145	7.711	7.598	0045	96
13 AUG 90	7.809	0700	7.730	7.639	2245	96
14 AUG 90	7.726	0400	7.592	7.458	2215	96
15 AUG 90	7.589	1615	7.528	7.451	0400	96
16 AUG 90	7.681	1400	7.607	7.504	0000	96
17 AUG 90	7.628	0215	7.498	7.391	2330	96
18 AUG 90	7.416	0100	7.294	7.133	2045	96
19 AUG 90	7.413	2345	7.161	7.030	0500	96
20 AUG 90	8.770	1545	7.938	6.900	0745	75
21 AUG 90	8.420	0530	8.229	8.020	2115	96
22 AUG 90	8.260	1800	8.135	8.040	1530	96
23 AUG 90	8.190	0400	8.082	7.970	1430	96
24 AUG 90	8.120	1045	8.011	7.915	2330	96
25 AUG 90	8.360	1030	8.034	7.928	1515	96
26 AUG 90	8.200	1900	8.116	8.030	2030	96
27 AUG 90	8.350	1515	8.008	7.783	2200	96
28 AUG 90	8.730	1030	7.979	7.704	1800	96
29 AUG 90	8.830	1815	8.019	7.626	0130	96
30 AUG 90	8.170	0015	7.991	7.829	2000	96
31 AUG 90	8.090	0830	7.946	7.817	2100	96
AVERAGE	8.159		7.882	7.630		
STD DEV	0.467		0.338	0.331		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR JUL 1990

STATION:N-5

PARAMETER:DISSOLVED OXYGEN (MG/L)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 JUL 90	10.220	1545	9.436	8.980	0200	96
2 JUL 90	9.790	1645	9.523	9.320	0330	96
3 JUL 90	9.890	1315	9.562	9.310	0345	96
4 JUL 90	9.780	0030	9.474	9.290	0745	96
5 JUL 90	9.680	1815	9.406	9.120	0730	96
6 JUL 90	10.080	2000	9.491	9.160	0230	96
7 JUL 90	9.800	1515	9.509	9.310	0800	96
8 JUL 90	9.630	1400	9.461	9.270	0700	96
9 JUL 90	9.550	1715	9.308	9.060	0615	96
10 JUL 90	9.690	2000	9.273	8.890	0645	96
11 JUL 90	9.930	1600	9.378	8.890	0930	96
12 JUL 90	9.820	2145	9.485	9.170	0945	96
13 JUL 90	9.830	2330	9.635	9.470	1715	96
14 JUL 90	9.940	1600	9.716	9.400	1115	88
15 JUL 90	9.940	1445	9.651	9.310	2330	96
16 JUL 90	10.110	1415	9.572	9.160	0430	95
17 JUL 90	10.110	1800	9.636	9.190	0845	96
18 JUL 90	9.810	1130	9.335	8.830	2330	96
19 JUL 90	9.280	1600	8.856	8.540	0830	96
20 JUL 90	9.230	1800	8.627	7.316	2345	96
21 JUL 90	9.410	1930	8.018	7.028	0445	96
22 JUL 90	8.980	1700	8.715	8.390	0800	96
23 JUL 90	8.510	0015	8.016	7.559	2345	96
24 JUL 90	7.926	1230	7.703	7.527	1930	95
25 JUL 90	8.770	1600	7.801	7.068	0900	96
26 JUL 90	8.750	1915	8.521	8.240	0915	96
27 JUL 90	8.910	1800	8.506	8.130	0645	96
28 JUL 90	8.940	1630	8.600	8.240	0800	96
29 JUL 90	8.750	0045	8.454	8.040	0900	96
30 JUL 90	8.600	0015	8.351	7.990	1015	96
31 JUL 90	8.910	1800	8.488	7.854	0545	96
AVERAGE	9.438		9.016	8.615		
STD DEV	0.583		0.620	0.752		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR JUN 1990

STATION:N-5

PARAMETER:DISSOLVED OXYGEN (MG/L)

DAY	---	MAXIMUM	---	DAILY	---	MINIMUM	---	NO
	(PARAM)	TIME		AVERAGE	(PARAM)	TIME		INT.
1 JUN 90	10.870	1100		8.863	8.150	0015		96
2 JUN 90	9.590	1445		8.604	7.859	0700		70
3 JUN 90	9.480	1415		8.976	7.736	2345		78
4 JUN 90	9.510	2215		8.110	7.466	0100		96
5 JUN 90	9.390	1130		8.268	7.585	0600		96
6 JUN 90	9.520	0930		8.428	7.569	0200		96
7 JUN 90	9.780	1345		7.950	6.865	2345		96
8 JUN 90	8.610	0915		7.594	6.740	0445		96
9 JUN 90	7.881	2230		7.648	7.454	0930		45
10 JUN 90	7.397	0045		7.049	6.731	2115		96
11 JUN 90	6.985	0000		6.763	6.525	0515		96
12 JUN 90	8.280	1415		7.533	6.735	0045		96
13 JUN 90	9.630	1530		8.482	7.950	0615		72
14 JUN 90	13.080	1600		8.985	6.793	0830		95
15 JUN 90	11.670	1600		11.334	11.040	2245		96
16 JUN 90	11.610	1445		11.045	10.710	0930		96
17 JUN 90	11.000	1900		10.771	10.530	2015		96
18 JUN 90	10.810	1630		10.503	10.100	0800		96
19 JUN 90	10.910	1400		10.394	10.030	0830		95
20 JUN 90	10.470	1115		10.305	10.080	0145		96
21 JUN 90	10.480	1015		9.712	9.040	1830		96
22 JUN 90	9.670	2145		9.288	9.020	0245		96
23 JUN 90	9.580	0000		9.238	8.910	2215		96
24 JUN 90	9.300	1445		9.053	8.820	0700		96
25 JUN 90	9.330	1115		9.206	9.070	0145		96
26 JUN 90	9.650	1115		9.363	8.980	0500		96
27 JUN 90	9.640	0730		9.364	9.130	2230		96
28 JUN 90	9.850	1300		9.177	8.960	0730		96
29 JUN 90	9.510	0015		9.087	8.850	2145		96
30 JUN 90	9.690	1815		9.186	8.870	0200		96
AVERAGE	9.772			9.009	8.477			
STD DEV	1.253			1.140	1.303			