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# Ambient Rivers Monitoring in NH Coastal Watersheds 2004

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# Ambient Rivers Monitoring in NH Coastal Watersheds 2004

# **Ambient Rivers Monitoring in New Hampshire Coastal Watersheds 2004**

A Final Report to

The New Hampshire Estuaries Project

Submitted by

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This project was funded in part by a grant from the New Hampshire Estuaries Project  
as authorized by the U.S. Environmental Protection Agency  
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## **EXECUTIVE SUMMARY**

The Department of Environmental Services (DES) received funding from the New Hampshire Estuaries Project (NHEP) to conduct monitoring activities in 2004. The activities described in this report were led by the DES Watershed Assistance Section and involved water monitoring in tidal tributaries. These monitoring activities were completed with the overall purpose of improving the understanding of water quality trends. The Department of Environmental Services completed all tasks as planned. This report includes the sample collection information, field data, and laboratory data. Data summaries and interpretations will come at a later time in other DES and NHEP publications.

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## INTRODUCTION

On February 11, 2004, the New Hampshire Governor and the Executive Council approved a memorandum of agreement (MOA) between the Department of Environmental Services (DES) and the Office of Energy and Planning (OEP) to implement aspects of the New Hampshire Estuaries Project *Management Plan* (NHEP, 2000) and *Monitoring Plan* (Trowbridge, 2002). This report covers the Enhanced Ambient Rivers Monitoring Program aspects in the MOA Work Program.

The NHEP accomplishes its monitoring program by promoting cooperation by all agencies and organizations who participate in monitoring activities, in order to maximize the usefulness of current monitoring efforts (Jones and Langan, 2001). DES directs a state-wide river monitoring program called the Ambient River Monitoring Program (ARMP). The main goal of this program is to determine the physical, chemical and bacteriological quality of rivers in the state. Sampling typically occurs on a rotating basis by watershed during the summer months. The NHEP needed more frequent monitoring to meet the monitoring plan objectives. The NHEP and DES worked out an agreement to use the ARMP protocols, laboratory, and database while increasing the frequency of sampling collection to include monitoring of nine coastal the rivers in the Great Bay Estuary during ice-out conditions.

The purpose of this report is to provide a record of completed river monitoring activities and the associated raw data. All data collected will be provided to the NHEP Coastal Scientist (Phil Trowbridge) for synthesis and interpretation. The NHEP Coastal Scientist will manage the data presented in this Final Report and will make conclusions under separate cover at a later time.

## PROJECT GOALS AND OBJECTIVES

The overall goal of the NHEP monitoring program is to develop a better understanding of the status and trends of estuarine environmental quality using scientifically credible information. The *Monitoring Plan* was also developed to evaluate the success of the NHEP *Management Plan* objectives and this was accomplished by converting the *Management Plan* objectives into monitoring questions.

The *Monitoring Plan* questions that pertain, at least in part, to the river (tributary) monitoring are as follows:

1. Have the fecal coliform, enterococci, and *E. coli* levels changed significantly over time?
2. Has dry weather bacterial contamination changed significantly over time?
3. Has wet weather bacterial contamination changed significantly over time?
4. Have levels of dissolved and particulate nitrogen and phosphorus significantly changed over time?
5. Have surface tidal or freshwaters shown a significant change in turbidity over time?

6. Do any surface tidal or freshwaters show less than 75% saturation of dissolved oxygen? For what period of time?

## SITE SELECTION AND METHODS

Initial site selection for ambient tributary monitoring was based six existing DES ARMP sites at the Great Bay Estuary tidal dams on the Exeter, Lamprey, Oyster, Bellamy, Cocheco and Salmon Falls Rivers. Two new sites were established on the freshwater portions of two Little Harbor tributaries, Berry's Brook and Sagamore Creek. These two new site locations were added to broaden the spatial coverage of the ambient monitoring to ensure adequate coverage of tributaries that discharge into shellfish growing waters. An additional Great Bay Estuary site was established on the Winnicut River at the tidal dam in March 2002. This new site was added because the Winnicut River is a significant tributary to Great Bay that was not currently monitored for water quality. The relatively rural watershed has experienced recent and continuing development that could impact the quality of the water flowing into Great Bay; in addition, the tidal dam has been identified as a potential site for fish passage restoration. Site location maps are provided in Appendix A.

Field and laboratory methods were conducted in accordance with the DES ARMP standard procedures as described in the *Ambient River Monitoring Program Quality Assurance Project Plan*. Samples were collected from the freshwater portion of the rivers at the downstream side of road crossings (except at Berry's Brook where the sampling location is on the upstream side) using a sampling bucket and rope. Field measurements were made for dissolved oxygen, temperature, conductivity, pH, and turbidity. River water was poured into sampling containers for laboratory analysis for TKN, ammonia, nitrate/nitrite, total phosphorus, biological oxygen demand, *E. coli*, and chlorophyll-a. Samples were transported to and analyzed by the DES Laboratory Services Unit and the Limnology Laboratory.

The DES Watershed Assistance Staff, with assistance from New Hampshire Coastal Program and NHEP staff, collected samples on a pre-scheduled monthly basis from March through December 2004 at nine sampling locations. Due to the expanded quality assurance requirements of ARMP in 2003 and the delivery time limitations of the Laboratory Services Unit, the sampling was conducted over a two day period. The sites and sampling dates are listed below in tables 1 and 2, respectively.

**Table 1 Sampling locations for ambient river monitoring 2004**

<u>Site Identification</u>	<u>River</u>	<u>Town</u>
05-Ber	Berry's Brook	Rye
05-Sag	Sagamore Creek	Portsmouth
02-Wnc	Winnicut River	Greenland
09-Ext	Exeter River	Exeter
05-Lmp	Lamprey River	Newmarket
05-Oys	Oyster River	Durham

05-Blm	Bellamy River	Dover
07-Cch	Cocheco River	Dover
05-Sfr	Salmon Falls River	Rollinsford

**Table 2 Sampling dates for ambient river monitoring 2004**

<u>Date Sampled</u>	<u>Sampling Locations</u>
March 23	05-Ber, 05-Sag, 02-Wnc, 09-Ext,
March 24	05-Lmp, 05-Oys, 05-Blm, 07-Cch, 05-Sfr
April 20	05-Ber, 05-Sag, 02-Wnc, 09-Ext,
April 22	05-Lmp, 05-Oys, 05-Blm, 07-Cch, 05-Sfr
May 18	05-Ber, 05-Sag, 02-Wnc, 09-Ext,
May 19	05-Lmp, 05-Oys, 05-Blm, 07-Cch, 05-Sfr
June 15	05-Ber, 05-Sag, 02-Wnc, 09-Ext, 05-Lmp
June 16	05-Oys, 05-Blm, 07-Cch, 05-Sfr
July 20	05-Ber, 05-Sag, 02-Wnc, 09-Ext, 05-Lmp
July 22	05-Oys, 05-Blm, 07-Cch, 05-Sfr
August 10	05-Blm, 05-Oys, 07-Cch, 05-Sfr
August 11	05-Ber, 05-Sag, 02-Wnc, 09-Ext, 05-Lmp,
August 20	05-Oys, 05-Blm, 07-Cch, 05-Sfr (DO&Temp only)
September 22	05-Ber, 05-Sag, 02-Wnc, 09-Ext
September 23	05-Lmp, 05-Oys, 05-Blm, 07-Cch, 05-Sfr
September 27	05-Ber, 05-Sag, 02-Wnc, 09-Ext (DO&Temp only)
October 20	05-Ber, 05-Sag, 02-Wnc,
October 21	09-Ext, 05-Lmp 05-Oys, 05-Blm, 07-Cch, 05-Sfr
November 17	05-Ber, 05-Sag, 02-Wnc, 09-Ext
November 18	05-Lmp, 05-Oys, 05-Blm, 07-Cch, 05-Sfr
December 7	05-Ber, 05-Sag, 02-Wnc
December 8	09-Ext, 05-Lmp, 05-Oys, 05-Blm, 07-Cch, 05-Sfr

## **FIELD AND LABORATORY DATA**

Ambient river data for 2004 are in Appendix B. The data are organized by sampling site and date. Access to the data is available at the DES website, which can be accessed by selecting the environmental monitoring database at <http://www.des.state.nh.us/OneStop/>.

Duplicate measures of field parameters and laboratory analyses were collected once per month at one of the nine sampling locations (see table 3) as required by the Quality Assurance Project Plan (Piszczek, 2002). Data retention for water quality assessment purposes is contingent on compliance with a parameter-specific relative percent difference (RPD) as described in the QAPP and table 4. Several data did not comply with the RPDs. A list of the results that were deemed invalid (both field and laboratory measures) is provided in Appendix C and this is noted in the data tables (Appendix B). This was the second year that duplicate sample analyses of laboratory parameters were measured.



**Table 3 Field and laboratory duplicate dates and sampling locations**

Date	Sampling location
3/24/04	05-Sfr
4/20/04	09-Ext
5/18/04	02-Wnc
6/16/04	07-Cch
7/22/04	05-Oys
8/10/04	05-Oys
9/22/04	02-Wnc
10/21/04	05-Oys
11/17/04	02-Wnc
12/7/04	05-Ber

**Table 4 Field analytical QC sample table.**

Water Quality Parameter	QC Check	QC Acceptance Limit
Dissolved Oxygen	Field duplicate	RPD < 5%
Temperature	Field duplicate	RPD < 5%
pH	Field duplicate	RPD < 0.2 std units
Specific Conductance	Field duplicate	RPD < 5%
Turbidity	Field duplicate	RPD < 5%

Certain problems were encountered during the field work that resulted in no changes to the sample collection methods or analytical analyses while other issues did result in changes (table 5). The most frequent change occurred when the field dissolved oxygen meter did not work properly. In these cases, the field staff returned to the sites with a properly working meter within the sampling month and collected the dissolved oxygen data.

**Table 5 Field problems encountered during the 2004 field season.**

Date	Site	Issue
5/18/04	02-Wnc	Preserved nutrient bottle slightly overfilled.
5/19/04	05-Blm	Preserved nutrient bottle slightly overfilled.
	05-Oys	Preserved nutrient bottle slightly overfilled.
6/16/04	07-Cch	Preserved nutrient bottle slightly overfilled.
7/20/04	05-Sag	Preserved nutrient bottle slightly overfilled.
8/10/04	05-Oys	The field dissolved oxygen meter was slow to stabilize on the duplicate sample. Dissolved oxygen readings taken again on 8/20/04 for all 8/10/04 sampling sites.
9/22/04	All four sites	Dissolved oxygen meter was not working properly. No dissolved oxygen data were collected. Temperature readings were collected with the conductivity meter instead of the dissolved oxygen meter. Preservative was added to the nutrient bottle after sample collection when samples were dropped off at the laboratory instead of prior to sample collection.
9/23/04	05-Sfr	There was no bottle for nitrate+nitrite. Sample water was poured off from TSS sample into nutrient bottle at laboratory.
11/17/04	05-Ber	Error message on conductivity meter. No reading taken.
12/7/04	All sites	Field pH meter did not calibrate. Parameter was measured in the laboratory.

## RECOMMENDATIONS

The following recommendations pertain to the ambient monitoring of coastal tributaries.

1. Monitoring should continue on a monthly basis at the nine coastal river sites to establish trends in ambient river quality. Baseline conditions and trends will be important in regards to monitoring the success of the NHEP *Management Plan* implementation.
2. Steps should be taken to ensure all agencies and organizations that are interested in the data have access to it. DES has added the environmental monitoring data to the OneStop web-based program on the DES website and should promote this database to user groups.

## REFERENCES

Jones, S. H. and R. Langan. 2001. *New Hampshire Estuaries Monitoring Plan*. New Hampshire Estuaries Project, Office of State Planning, Portsmouth, NH.

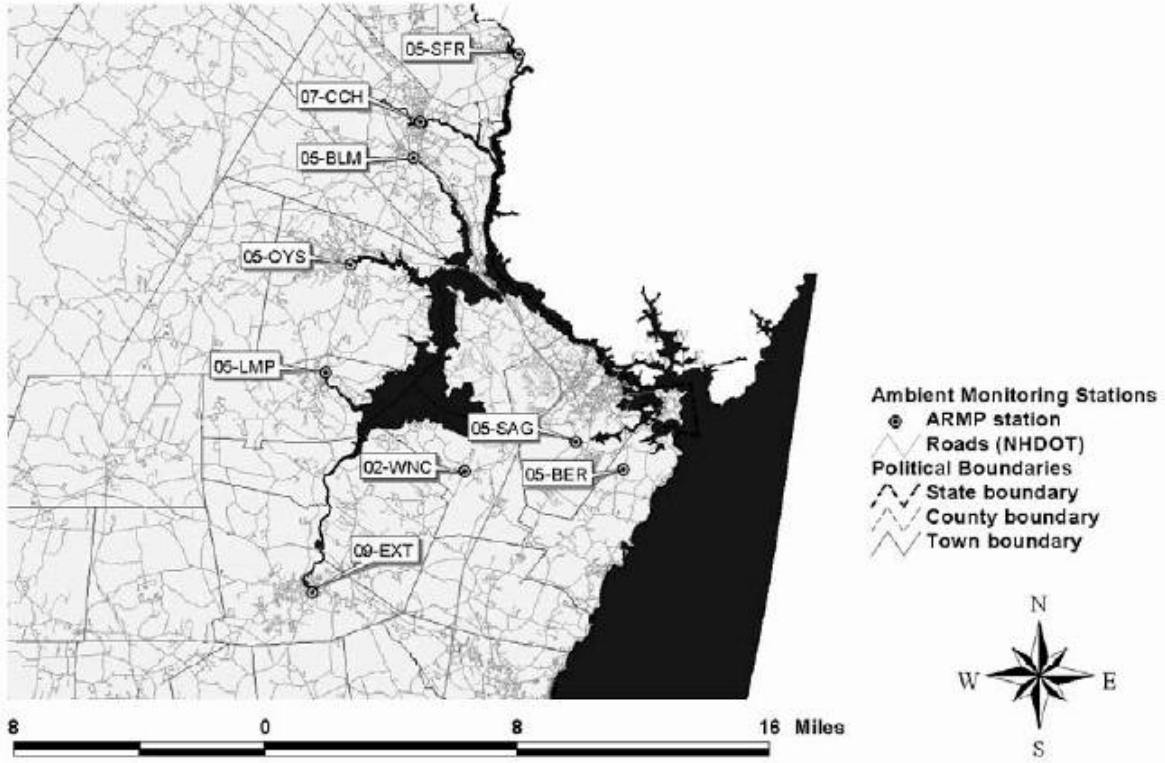
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Piszczek, P. 2002. *Ambient River Monitoring Program Quality Assurance Project Plan*. NH Department of Environmental Services, Water Division-Watershed Management Bureau, Concord, NH.

Trowbridge, P. 2002. *New Hampshire Estuaries Project Monitoring Plan*. New Hampshire Department of Environmental Services, Concord, NH.

## APPENDIX A - AMBIENT RIVER SITE MAPS

### NHDES Enhanced Ambient Rivers Monitoring Program Tidal Tributary Monitoring Stations



## APPENDIX B – AMBIENT RIVER DATA FOR COASTAL TRIBUTARIES

### Berry's Brook at Sagamore Ave, Rye, 05-BER

**Note: Data not meeting RPD are shaded.**

ACTIVITY CATEGORY	START DATE	START TIME	BOD RESULTS	BOD QUAL	BOD UNITS	CHL RESULTS	CHL UNITS	DO RESULTS	DO UNITS	DO SAT RESULTS	DO SAT UNITS
ROUTINE SAMPLE	03/23/2004	09:35:00	2.40	<	MG/L	0.90	UG/L	9.61	MG/L	67.70	%
ROUTINE SAMPLE	04/20/2004	09:30:00	2.40	<	MG/L	1.78	UG/L	5.57	MG/L	53.50	%
ROUTINE SAMPLE	05/18/2004	09:25:00	2.40	<	MG/L	2.14	UG/L	4.06	MG/L	40.50	%
ROUTINE SAMPLE	06/15/2004	09:32:00	2.40	<	MG/L	6.09	UG/L	3.23	MG/L	34.90	%
ROUTINE SAMPLE	07/20/2004	09:30:00	2.40	<	MG/L	2.28	UG/L	3.26	MG/L	35.60	%
ROUTINE SAMPLE	08/11/2004	09:38:00	2.40	<	MG/L	2.35	UG/L	2.67	MG/L	29.20	%
ROUTINE SAMPLE	09/22/2004	11:45:00	2.40	<	MG/L	nd	UG/L	nd	MG/L	nd	%
ROUTINE SAMPLE	09/27/2004	10:10:00	nd		MG/L	nd	UG/L	4.37	MG/L	42	%
ROUTINE SAMPLE	10/20/2004	11:58:00	2.40	<	MG/L	1.82	UG/L	7.26	MG/L	62.30	%
ROUTINE SAMPLE	11/17/2004	10:04:00	2.40	<	MG/L	2.89	UG/L	10.92	MG/L	76.90	%
ROUTINE SAMPLE	12/07/2004	09:36:00	2.40	<	MG/L	1.07	UG/L	12.10	MG/L	82.70	%
FIELD DUPLICATE	12/07/2004	09:55:00	2.40	<	MG/L	1.26	UG/L	11.54	MG/L	79.10	%

ACTIVITY CATEGORY	START DATE	START TIME	EC RESULTS	EC QUAL	EC UNITS	NITR RESULTS	NITR QUAL	NITR UNITS	TKN RESULTS	TKN UNITS
ROUTINE SAMPLE	03/23/2004	09:35:00	10	<	CTS/100ML	0.05	<	MG/L	0.40	MG/L
ROUTINE SAMPLE	04/20/2004	09:30:00	10	<	CTS/100ML	0.20	<	MG/L	0.40	MG/L
ROUTINE SAMPLE	05/18/2004	09:25:00	100		CTS/100ML	0.05	<	MG/L	0.80	MG/L
ROUTINE SAMPLE	06/15/2004	09:32:00	180		CTS/100ML	0.05	<	MG/L	1	MG/L
ROUTINE SAMPLE	07/20/2004	09:30:00	110		CTS/100ML	0.05	<	MG/L	1	MG/L
ROUTINE SAMPLE	08/11/2004	09:38:00	10		CTS/100ML	0.05	<	MG/L	1.10	MG/L
ROUTINE SAMPLE	09/22/2004	11:45:00	140		CTS/100ML	0.05	<	MG/L	0.90	MG/L
ROUTINE SAMPLE	09/27/2004	10:10:00	nd		CTS/100ML	nd		MG/L	nd	MG/L
ROUTINE SAMPLE	10/20/2004	11:58:00	170		CTS/100ML	0.05	<	MG/L	0.80	MG/L
ROUTINE SAMPLE	11/17/2004	10:04:00	100		CTS/100ML	0.10	<	MG/L	0.70	MG/L
ROUTINE SAMPLE	12/07/2004	09:36:00	20		CTS/100ML	0.05	<	MG/L	0.5	MG/L
FIELD DUPLICATE	12/07/2004	09:55:00	10		CTS/100ML	0.05	<	MG/L	0.5	MG/L

ACTIVITY CATEGORY	START DATE	START TIME	NO2NO3 RESULTS	NO2NO3 QUAL	NO2NO3 UNITS	PH RESULTS	PH UNITS	P RESULTS	P UNITS	COND RESULTS	COND UNITS
ROUTINE SAMPLE	03/23/2004	09:35:00	0.05	<	MG/L	5.36	UNITS	0.0170	MG/L	174.70	US/CM
ROUTINE SAMPLE	04/20/2004	09:30:00	0.05	<	MG/L	5.72	UNITS	0.0110	MG/L	180	US/CM
ROUTINE SAMPLE	05/18/2004	09:25:00	0.05	<	MG/L	5.90	UNITS	0.0180	MG/L	287	US/CM
ROUTINE SAMPLE	06/15/2004	09:32:00	0.05	<	MG/L	5.94	UNITS	0.0260	MG/L	231.70	US/CM
ROUTINE SAMPLE	07/20/2004	09:30:00	0.05	<	MG/L	5.76	UNITS	0.03	MG/L	260.60	US/CM
ROUTINE SAMPLE	08/11/2004	09:38:00	0.05	<	MG/L	6.06	UNITS	0.0420	MG/L	322	US/CM
ROUTINE SAMPLE	09/22/2004	11:45:00	0.05	<	MG/L	5.75	UNITS	0.0290	MG/L	193.90	US/CM
ROUTINE SAMPLE	09/27/2004	10:10:00	nd		MG/L	nd	UNITS	nd	MG/L	nd	US/CM
ROUTINE SAMPLE	10/20/2004	11:58:00	0.05	<	MG/L	6.68	UNITS	0.0310	MG/L	230.60	US/CM
ROUTINE SAMPLE	11/17/2004	10:04:00	nd		MG/L	7.08	UNITS	0.0440	MG/L	nd	US/CM
ROUTINE SAMPLE	12/07/2004	09:36:00	0.05		MG/L	6.7	UNITS	0.0160	MG/L	119.30	US/CM
FIELD DUPLICATE	12/07/2004	09:55:00	0.06		MG/L	6.7	UNITS	0.0160	MG/L	117.20	US/CM

ACTIVITY CATEGORY	START DATE	START TIME	TEMP RESULTS	TEMP UNITS	TSS RESULTS	TSS QUAL	TSS UNITS	TURB RESULTS	TURB UNITS	WEATHER COMMENTS RESULTS
ROUTINE SAMPLE	03/23/2004	09:35:00	0.80	DEG C	1	<	MG/L	0.60	NTU	CLEAR, BREEZY, 40'S
ROUTINE SAMPLE	04/20/2004	09:30:00	13.60	DEG C	2		MG/L	0.45	NTU	CLEAR, WINDY, 50'S
ROUTINE SAMPLE	05/18/2004	09:25:00	15.60	DEG C	1	<	MG/L	1.30	NTU	CLOUDY W/INTERMITTENT RAIN, CALM, 60'S
ROUTINE SAMPLE	06/15/2004	09:32:00	19.20	DEG C	1		MG/L	1.70	NTU	CLOUDY W/O RAIN, CALM, 80 DEGREES F
ROUTINE SAMPLE	07/20/2004	09:30:00	19.80	DEG C	5	<	MG/L	2.10	NTU	CLOUDY W/O RAIN, CALM, 80 DEGREES F
ROUTINE SAMPLE	08/11/2004	09:38:00	19.40	DEG C	18.50		MG/L	8	NTU	CLOUDY W/O RAIN, CALM, 70S
ROUTINE SAMPLE	09/22/2004	11:45:00	14.70	DEG C	5	<	MG/L	1.30	NTU	CLEAR, CALM, 70S
ROUTINE SAMPLE	09/27/2004	10:10:00	13.70	DEG C	nd		MG/L	nd	NTU	CLEAR, CALM, 60 DEGS F

ROUTINE SAMPLE	10/20/2004	11:58:00	8.20	DEG C	5	<	MG/L	2	NTU	CLOUDY W/O RAIN, WIND, 60S
ROUTINE SAMPLE	11/17/2004	10:04:00	4.30	DEG C	12.50		MG/L	15	NTU	CLEAR, CALM, 50S
ROUTINE SAMPLE	12/07/2004	09:36:00	-0.10	DEG C	5	<	MG/L	1.30	NTU	CLOUDY W/SNOW, BREEZE, 20S
FIELD DUPLICATE	12/07/2004	09:55:00	-0.10	DEG C	5	<	MG/L	1.30	NTU	CLOUDY W/SNOW, BREEZE, 20S

Legend	
BOD	BIOCHEMICAL OXYGEN DEMAND
CHL	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
DO	DISSOLVED OXYGEN
DO SAT	DISSOLVED OXYGEN SATURATION
DELETED	LAB ACCIDENT
EC	ESCHERICHIA COLI
NITR	NITROGEN AMMONIA
TKN	NITROGEN KJELDAHL
nd	NO SAMPLE COLLECTED OR NO MEASUREMENT MADE
NO2NO3	NITROGEN NITRATE + NITRITE
P	PHOSPHORUS AS P
QUAL	QUALIFIER

**Sagamore Creek at Peverly Hill Road, Portsmouth, 05-Sag**  
**Note: Data not meeting RPD are shaded.**

ACTIVITY CATEGORY	START DATE	START TIME	BOD RESULTS	BOD QUAL	BOD UNITS	CHL RESULTS	CHL UNITS	DO RESULTS	DO UNITS	DO SAT RESULTS	DO SAT UNITS
ROUTINE SAMPLE	03/23/2004	09:59:00	2.40	<	MG/L	1.64	UG/L	13.34	MG/L	102.40	%
ROUTINE SAMPLE	04/20/2004	10:05:00	2.40	<	MG/L	2.52	UG/L	11.23	MG/L	111.40	%
ROUTINE SAMPLE	05/18/2004	09:53:00	2.40	<	MG/L	3.86	UG/L	9.48	MG/L	99.70	%

ROUTINE SAMPLE	06/15/2004	10:00:00	4.10		MG/L	2.68	UG/L	7.73	MG/L	86.60	%
ROUTINE SAMPLE	07/20/2004	10:02:00	2.50		MG/L	6.52	UG/L	5.65	MG/L	64.50	%
ROUTINE SAMPLE	08/11/2004	10:06:00	2.40	<	MG/L	2.54	UG/L	7.56	MG/L	86.30	%
ROUTINE SAMPLE	09/22/2004	12:10:00	2.40	<	MG/L	nd	UG/L	nd	MG/L	nd	%
ROUTINE SAMPLE	09/27/2004	10:25:00	nd		MG/L	nd	UG/L	7.05	MG/L	74.20	%
ROUTINE SAMPLE	10/20/2004	12:18:00	2.40	<	MG/L	3.25	UG/L	9.58	MG/L	86.40	%
ROUTINE SAMPLE	11/17/2004	10:35:00	2.40	<	MG/L	4.17	UG/L	11.51	MG/L	88.80	%
ROUTINE SAMPLE	12/07/2004	10:25:00	2.40	<	MG/L	4.01	UG/L	10.58	MG/L	76.50	%

ACTIVITY CATEGORY	START DATE	START TIME	EC RESULTS	EC QUAL	EC UNITS	NITR RESULTS	NITR QUAL	NITR UNITS	TKN RESULTS	TKN UNITS
ROUTINE SAMPLE	03/23/2004	09:59:00	10	<	CTS/100ML	0.05	<	MG/L	0.70	MG/L
ROUTINE SAMPLE	04/20/2004	10:05:00	10	<	CTS/100ML	0.20	<	MG/L	0.50	MG/L
ROUTINE SAMPLE	05/18/2004	09:53:00	110		CTS/100ML	0.05	<	MG/L	0.70	MG/L
ROUTINE SAMPLE	06/15/2004	10:00:00	10	<	CTS/100ML	0.08		MG/L	0.70	MG/L
ROUTINE SAMPLE	07/20/2004	10:02:00	10		CTS/100ML	0.05	<	MG/L	0.80	MG/L
ROUTINE SAMPLE	08/11/2004	10:06:00	70		CTS/100ML	0.05	<	MG/L	0.60	MG/L
ROUTINE SAMPLE	09/22/2004	12:10:00	20		CTS/100ML	0.05	<	MG/L	0.40	MG/L
ROUTINE SAMPLE	09/27/2004	10:25:00	nd		CTS/100ML	nd		MG/L	nd	MG/L
ROUTINE SAMPLE	10/20/2004	12:18:00	70		CTS/100ML	0.05		MG/L	0.60	MG/L
ROUTINE SAMPLE	11/17/2004	10:35:00	10	<	CTS/100ML	0.10	<	MG/L	0.70	MG/L
ROUTINE SAMPLE	12/07/2004	10:25:00	10		CTS/100ML	0.05	<	MG/L	0.5	MG/L

ACTIVITY CATEGORY	START DATE	START TIME	NO2NO3 RESULTS	NO2NO3 QUAL	NO2NO3 UNITS	PH RESULTS	PH UNITS	P RESULTS	P UNITS	COND RESULTS	COND UNITS
ROUTINE SAMPLE	03/23/2004	09:59:00	0.09		MG/L	6.68	UNITS	0.0280	MG/L	820	UMHOS/CM
ROUTINE SAMPLE	04/20/2004	10:05:00	0.05	<	MG/L	6.83	UNITS	0.0250	MG/L	766	UMHOS/CM
ROUTINE SAMPLE	05/18/2004	09:53:00	0.05	<	MG/L	5.98	UNITS	0.0240	MG/L	918	UMHOS/CM
ROUTINE SAMPLE	06/15/2004	10:00:00	0.05	<	MG/L	6.49	UNITS	0.02	MG/L	1183	UMHOS/CM
ROUTINE SAMPLE	07/20/2004	10:02:00	0.05	<	MG/L	6.41	UNITS	0.02	MG/L	1202	UMHOS/CM
ROUTINE SAMPLE	08/11/2004	10:06:00	0.05	<	MG/L	6.87	UNITS	0.0140	MG/L	1418	UMHOS/CM
ROUTINE SAMPLE	09/22/2004	12:10:00	0.07		MG/L	6.28	UNITS	0.0160	MG/L	708	UMHOS/CM
ROUTINE SAMPLE	09/27/2004	10:25:00	nd		MG/L	nd	UNITS	nd	MG/L	nd	UMHOS/CM
ROUTINE SAMPLE	10/20/2004	12:18:00	0.05		MG/L	6.43	UNITS	0.0170	MG/L	868	UMHOS/CM
ROUTINE SAMPLE	11/17/2004	10:35:00	nd		MG/L	6.51	UNITS	0.0220	MG/L	1125	UMHOS/CM
ROUTINE SAMPLE	12/07/2004	10:25:00	0.12		MG/L	7.5	UNITS	0.0180	MG/L	463	UMHOS/CM

ACTIVITY CATEGORY	START DATE	START TIME	TEMP RESULTS	TEMP UNITS	TSS RESULTS	TSS QUAL	TSS UNITS	TURB RESULTS	TURB UNITS	WEATHER COMMENTS RESULTS
ROUTINE SAMPLE	03/23/2004	09:59:00	4.40	DEG C	4		MG/L	6.20	NTU	CLEAR, BREEZY, 40'S
ROUTINE SAMPLE	04/20/2004	10:05:00	15	DEG C	10		MG/L	10	NTU	CLEAR, WINDY, 50'S
ROUTINE SAMPLE	05/18/2004	09:53:00	17.80	DEG C	3.50		MG/L	4	NTU	CLOUDY W/INTERMITTENT RAIN, BREEZY, 60'S
ROUTINE SAMPLE	06/15/2004	10:00:00	20.90	DEG C	3		MG/L	3.20	NTU	CLOUDY, CALM, 80 F
ROUTINE SAMPLE	07/20/2004	10:02:00	22	DEG C	6		MG/L	2.10	NTU	CLOUDY, CALM, 80 F
ROUTINE SAMPLE	08/11/2004	10:06:00	22.30	DEG C	7		MG/L	1.20	NTU	CLOUDY, BREEZE, 70S



SAMPLE ROUTINE	09/22/2004	12:10:00	18.30	DEG C	5	<	MG/L	2.10	NTU	CLEAR, CALM, 70S
SAMPLE ROUTINE	09/27/2004	10:25:00	18.10	DEG C	nd		MG/L	nd	NTU	CLEAR, CALM, 60S
SAMPLE ROUTINE	10/20/2004	12:18:00	10.30	DEG C	5		MG/L	3.40	NTU	CLOUDY W/O RAIN, WIND
SAMPLE ROUTINE	11/17/2004	10:35:00	4.50	DEG C	5	<	MG/L	4.10	NTU	CLEAR, BREEZE, 50S
SAMPLE ROUTINE	12/07/2004	10:25:00	2	DEG C	5		MG/L	5	NTU	CLOUDY W/SNOW, 24F

Legend

BOD	BIOCHEMICAL OXYGEN DEMAND
CHL	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
DO	DISSOLVED OXYGEN
DO SAT	DISSOLVED OXYGEN SATURATION
DELETED	LAB ACCIDENT
EC	ESCHERICHIA COLI
NITR	NITROGEN AMMONIA
TKN	NITROGEN KJELDAHL
nd	NO SAMPLE COLLECTED OR NO MEASUREMENT MADE
NO2NO3	NITROGEN NITRATE + NITRITE
P	PHOSPHORUS AS P
QUAL	QUALIFIER
COND	SPECIFIC CONDUCTANCE
TEMP	TEMPERATURE WATER
TSS	TOTAL SUSPENDED SOLIDS
TURB	TURBIDITY

**Winnicut River at Rt. 33 Bridge, Greenland, 02-WNC**

**Note: Data not meeting RPD are shaded.**

ACTIVITY CATEGORY	START DATE	START TIME	BOD RESULTS	BOD QUAL	BOD UNITS	CHL RESULTS	CHL UNITS	DO RESULTS	DO UNITS	DO SAT RESULTS	DO SAT UNITS
ROUTINE SAMPLE	03/23/2004	10:35:00	2.40	<	MG/L	1.26	UG/L	12.25	MG/L	87.50	%
ROUTINE SAMPLE	04/20/2004	10:20:00	2.40	<	MG/L	2.14	UG/L	7.62	MG/L	76.30	%
ROUTINE SAMPLE	05/18/2004	10:16:00	2.40	<	MG/L	3.27	UG/L	6.64	MG/L	69.60	%
FIELD DUPLICATE	05/18/2004	10:16:00	2.40	<	MG/L	3.08	UG/L	6.61	MG/L	69.40	%
ROUTINE SAMPLE	06/15/2004	10:25:00	2.40	<	MG/L	6	UG/L	6.58	MG/L	74.10	%
ROUTINE SAMPLE	07/20/2004	10:20:00	3		MG/L	11.99	UG/L	7.10	MG/L	82.70	%
ROUTINE SAMPLE	08/11/2004	10:30:00	2.40	<	MG/L	3.30	UG/L	8.77	MG/L	102.70	%
ROUTINE SAMPLE	09/22/2004	09:55:00	2.40	<	MG/L	nd	UG/L	nd	MG/L	nd	%
FIELD DUPLICATE	09/22/2004	10:20:00	2.40	<	MG/L	nd	UG/L	nd	MG/L	nd	%
ROUTINE SAMPLE	09/27/2004	10:42:00	nd		MG/L	nd	UG/L	5.84	MG/L	60.50	%
FIELD DUPLICATE	09/27/2004	10:48:00	nd		MG/L	nd	UG/L	5.60	MG/L	58	%
ROUTINE SAMPLE	10/20/2004	11:15:00	2.40	<	MG/L	2.18	UG/L	8.07	MG/L	71.80	%
ROUTINE SAMPLE	11/17/2004	11:02:00	2.40	<	MG/L	1.07	UG/L	10.74	MG/L	81.40	%
FIELD DUPLICATE	11/17/2004	11:15:00	2.40	<	MG/L	1.28	UG/L	10.66	MG/L	80.3	%
ROUTINE SAMPLE	12/07/2004	10:55:00	2.40	<	MG/L	1.09	UG/L	12.14	MG/L	83.80	%

ACTIVITY CATEGORY	START DATE	START TIME	EC RESULTS	EC QUAL	EC UNITS	NITR RESULTS	NITR QUALIFIER	NITR UNITS	TKN RESULTS	TKN UNITS
ROUTINE SAMPLE	03/23/2004	10:35:00	10	<	CTS/100ML	0.05	<	MG/L	0.40	MG/L

ROUTINE SAMPLE	04/20/2004	10:20:00	60		CTS/100ML	0.20	<	MG/L	0.40	MG/L
ROUTINE SAMPLE	05/18/2004	10:16:00	50		CTS/100ML	0.05	<	MG/L	3.40	MG/L
FIELD DUPLICATE	05/18/2004	10:16:00	30		CTS/100ML	0.06		MG/L	0.70	MG/L
ROUTINE SAMPLE	06/15/2004	10:25:00	70		CTS/100ML	0.05	<	MG/L	0.80	MG/L
ROUTINE SAMPLE	07/20/2004	10:20:00	40		CTS/100ML	0.05	<	MG/L	0.60	MG/L
ROUTINE SAMPLE	08/11/2004	10:30:00	70		CTS/100ML	0.05	<	MG/L	0.80	MG/L
ROUTINE SAMPLE	09/22/2004	09:55:00	150		CTS/100ML	0.05	<	MG/L	0.80	MG/L
FIELD DUPLICATE	09/22/2004	10:20:00	90		CTS/100ML	0.05	<	MG/L	0.80	MG/L
ROUTINE SAMPLE	09/27/2004	10:42:00	nd		CTS/100ML	nd		MG/L	nd	MG/L
FIELD DUPLICATE	09/27/2004	10:48:00	nd		CTS/100ML	nd		MG/L	nd	MG/L
ROUTINE SAMPLE	10/20/2004	11:15:00	80		CTS/100ML	0.05		MG/L	0.80	MG/L
ROUTINE SAMPLE	11/17/2004	11:02:00	10	<	CTS/100ML	0.10	<	MG/L	0.60	MG/L
FIELD DUPLICATE	11/17/2004	11:15:00	10		CTS/100ML	0.10	<	MG/L	0.60	MG/L
ROUTINE SAMPLE	12/07/2004	10:55:00	30		CTS/100ML	0.05	<	MG/L	0.5	MG/L

ACTIVITY CATEGORY	START DATE	START TIME	NO2NO3 RESULTS	NO2NO3 QUALIFIER	NO2NO3 UNITS	PH RESULTS	PH UNITS	P RESULTS	P UNITS	COND RESULTS	COND UNITS
ROUTINE SAMPLE	03/23/2004	10:35:00	0.36		MG/L	6.97	UNITS	0.0290	MG/L	176.60	UMHOS/CM
ROUTINE SAMPLE	04/20/2004	10:20:00	0.09		MG/L	6.82	UNITS	0.0150	MG/L	227.80	UMHOS/CM
ROUTINE SAMPLE	05/18/2004	10:16:00	0.10		MG/L	6.35	UNITS	0.0310	MG/L	335.70	UMHOS/CM
FIELD DUPLICATE	05/18/2004	10:16:00	0.10		MG/L	6.31	UNITS	0.0370	MG/L	336.40	UMHOS/CM
ROUTINE SAMPLE	06/15/2004	10:25:00	0.10		MG/L	6.90	UNITS	0.0470	MG/L	311.60	UMHOS/CM

ROUTINE SAMPLE	07/20/2004	10:20:00	0.05		MG/L	6.65	UNITS	0.0360	MG/L	368.20	UMHOS/CM
ROUTINE SAMPLE	08/11/2004	10:30:00	0.05	<	MG/L	6.91	UNITS	0.0420	MG/L	425.80	UMHOS/CM
ROUTINE SAMPLE	09/22/2004	09:55:00	0.05	<	MG/L	6.65	UNITS	0.0370	MG/L	255.10	UMHOS/CM
FIELD DUPLICATE	09/22/2004	10:20:00	0.05	<	MG/L	6.61	UNITS	0.0390	MG/L	255.60	UMHOS/CM
ROUTINE SAMPLE	09/27/2004	10:42:00	nd		MG/L	nd	UNITS	nd	MG/L	nd	UMHOS/CM
FIELD DUPLICATE	09/27/2004	10:48:00	nd		MG/L	nd	UNITS	nd	MG/L	nd	UMHOS/CM
ROUTINE SAMPLE	10/20/2004	11:15:00	0.08		MG/L	6.56	UNITS	0.0610	MG/L	277	UMHOS/CM
ROUTINE SAMPLE	11/17/2004	11:02:00	nd		MG/L	6.82	UNITS	0.0280	MG/L	346.40	UMHOS/CM
FIELD DUPLICATE	11/17/2004	11:15:00	nd		MG/L	6.86	UNITS	0.0270	MG/L	347.5	UMHOS/CM
ROUTINE SAMPLE	12/07/2004	10:55:00	0.16		MG/L	7.1	UNITS	0.02	MG/L	151.40	UMHOS/CM

ACTIVITY CATEGORY	START DATE	START TIME	TEMP RESULTS	TEMP UNITS	TSS RESULTS	TSS QUAL	TSS UNITS	TURB RESULTS	TURB UNITS	WEATHER RESULTS	COMMENTS
ROUTINE SAMPLE	03/23/2004	10:35:00	1.60	DEG C	3		MG/L	4	NTU	CLEAR, BREEZY, 40'S	
ROUTINE SAMPLE	04/20/2004	10:20:00	15.50	DEG C	2.50		MG/L	2.20	NTU	CLEAR, BREEZY, 50'S	
ROUTINE SAMPLE	05/18/2004	10:16:00	17.90	DEG C	1	<	MG/L	2.80	NTU	CLOUDY W/INTERMITTENT RAIN, BREEZY, 60'S	
FIELD DUPLICATE	05/18/2004	10:16:00	17.70	DEG C	1		MG/L	2.90	NTU	CLOUDY W/INTERMITTENT RAIN, BREEZY, 60'S	
ROUTINE SAMPLE	06/15/2004	10:25:00	21.20	DEG C	1	<	MG/L	7.20	NTU	CLOUDY W/O RAIN, BREEZY, 80 DEGREES F	
ROUTINE SAMPLE	07/20/2004	10:20:00	23	DEG C	5	<	MG/L	3.90	NTU	CLOUDY W/O RAIN, BREEZY, 80 DEGREES F	
ROUTINE SAMPLE	08/11/2004	10:30:00	23.20	DEG C	8		MG/L	1.70	NTU	CLOUDY W/O RAIN, CALM, 80S	

ROUTINE SAMPLE	09/22/2004	09:55:00	16.20	DEG C	5	<	MG/L	3.10	NTU	CLEAR, CALM, 60 DEGREES F
FIELD DUPLICATE	09/22/2004	10:20:00	16.10	DEG C	5	<	MG/L	3.20	NTU	CLEAR, CALM, 60 DEGREES F
ROUTINE SAMPLE	09/27/2004	10:42:00	17.60	DEG C	nd		MG/L	nd	NTU	CLEAR, CALM, 60 DEGREES F
FIELD DUPLICATE	09/27/2004	10:48:00	17.50	DEG C	nd		MG/L	nd	NTU	CLEAR, CALM, 70 DEGREES F
ROUTINE SAMPLE	10/20/2004	11:15:00	10.20	DEG C	5		MG/L	5	NTU	CLEAR, WIND, 60S
ROUTINE SAMPLE	11/17/2004	11:02:00	3.80	DEG C	5	<	MG/L	4.10	NTU	CLEAR, CALM, 50S
FIELD DUPLICATE	11/17/2004	11:15:00	3.5	DEG C	5	<	MG/L	4.4	NTU	CLEAR, CALM, 50S
ROUTINE SAMPLE	12/07/2004	10:55:00	0.30	DEG C	5	<	MG/L	3.10	NTU	CLOUDY W/SNOW, CALM, 24 DEGREES F

#### Legend

BOD	BIOCHEMICAL OXYGEN DEMAND
CHL	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
DO	DISSOLVED OXYGEN
DO SAT	DISSOLVED OXYGEN SATURATION
DELETED	LAB ACCIDENT
EC	ESCHERICHIA COLI
NITR	NITROGEN AMMONIA
TKN	NITROGEN KJELDAHL
nd	NO SAMPLE COLLECTED OR NO MEASUREMENT MADE
NO2NO3	NITROGEN NITRATE + NITRITE
P	PHOSPHORUS AS P
QUAL	QUALIFIER
COND	SPECIFIC CONDUCTANCE
TEMP	TEMPERATURE WATER
TSS	TOTAL SUSPENDED SOLIDS
TURB	TURBIDITY

**Exeter River at the High Street Bridge, Exeter, 09-EXT**

**Note: Data not meeting RPD are shaded.**

ACTIVITY CATEGORY	START DATE	START TIME	BOD	BOD	BOD	CHL	CHL	DO	DO	DO SAT	DO SAT
			RESULTS	QUAL	UNITS	RESULTS	UNITS	RESULTS	UNITS	RESULTS	UNITS
ROUTINE SAMPLE	03/23/2004	11:17:00	2.40	<	MG/L	1.09	UG/L	12.60	MG/L	88.80	%
ROUTINE SAMPLE	04/20/2004	10:45:00	2.40	<	MG/L	1.61	UG/L	9.05	MG/L	89.30	%
FIELD DUPLICATE	04/20/2004	11:00:00	2.40	<	MG/L	1.80	UG/L	8.77	MG/L	86.40	%
ROUTINE SAMPLE	05/18/2004	11:00:00	2.40	<	MG/L	2.35	UG/L	7.52	MG/L	81.50	%
ROUTINE SAMPLE	06/15/2004	11:00:00	2.40	<	MG/L	7.66	UG/L	7.18	MG/L	82.90	%
ROUTINE SAMPLE	07/20/2004	10:55:00	2.40	<	MG/L	9.22	UG/L	5.84	MG/L	69.20	%
ROUTINE SAMPLE	08/11/2004	11:00:00	2.4		MG/L	9.53	UG/L	9.06	MG/L	108.70	%
ROUTINE SAMPLE	09/22/2004	10:55:00	2.40	<	MG/L	nd	UG/L	nd	MG/L	nd	%
ROUTINE SAMPLE	09/27/2004	11:08:00	nd		MG/L	nd	UG/L	6.65	MG/L	70.10	%
ROUTINE SAMPLE	10/21/2004	12:00:00	2.40	<	MG/L	1.59	UG/L	7.80	MG/L	69	%
ROUTINE SAMPLE	11/17/2004	11:48:00	2.40	<	MG/L	0.90	UG/L	11.81	MG/L	90.50	%
ROUTINE SAMPLE	12/08/2004	09:32:00	3		MG/L	1.42	UG/L	13.07	MG/L	92.20	%

ACTIVITY CATEGORY	START DATE	START TIME	EC	EC	EC	NITR	NITR	NITR	TKN	TKN
			RESULTS	QUAL	UNITS	RESULTS	QUAL	UNITS	RESULTS	UNITS
ROUTINE SAMPLE	03/23/2004	11:17:00	10	<	CTS/100ML	0.05	<	MG/L	0.40	MG/L
ROUTINE SAMPLE	04/20/2004	10:45:00	10	<	CTS/100ML	0.20	<	MG/L	0.30	MG/L
FIELD DUPLICATE	04/20/2004	11:00:00	30		CTS/100ML	0.20	<	MG/L	0.30	MG/L
ROUTINE SAMPLE	05/18/2004	11:00:00	70		CTS/100ML	0.05	<	MG/L	0.50	MG/L
ROUTINE SAMPLE	06/15/2004	11:00:00	20		CTS/100ML	0.05	<	MG/L	0.50	MG/L
ROUTINE SAMPLE	07/20/2004	10:55:00	550		CTS/100ML	0.06		MG/L	0.60	MG/L
ROUTINE SAMPLE	08/11/2004	11:00:00	20		CTS/100ML	0.05	<	MG/L	0.50	MG/L
ROUTINE SAMPLE	09/22/2004	10:55:00	120		CTS/100ML	0.05	<	MG/L	0.60	MG/L
ROUTINE SAMPLE	09/27/2004	11:08:00	nd		CTS/100ML	nd		MG/L	nd	MG/L
ROUTINE SAMPLE	10/21/2004	12:00:00	60		CTS/100ML	0.05	<	MG/L	0.60	MG/L
ROUTINE SAMPLE	11/17/2004	11:48:00	40		CTS/100ML	0.10	<	MG/L	0.50	MG/L

ROUTINE SAMPLE 12/08/2004 09:32:00 120 CTS/100ML 0.05 < MG/L 0.40 MG/L

ACTIVITY CATEGORY	START DATE	START TIME	NO2NO3 RESULTS	NO2NO3 QUAL	NO2NO3 UNITS	PH RESULTS	PH UNITS	P RESULTS	P UNITS	COND RESULTS	COND UNITS
ROUTINE SAMPLE	03/23/2004	11:17:00	0.24		MG/L	6.99	UNITS	0.0230	MG/L	96.70	UMHOS/CM
ROUTINE SAMPLE	04/20/2004	10:45:00	0.06		MG/L	6.95	UNITS	0.0080	MG/L	117.50	UMHOS/CM
FIELD DUPLICATE	04/20/2004	11:00:00	0.06		MG/L	6.88	UNITS	0.0140	MG/L	117	UMHOS/CM
ROUTINE SAMPLE	05/18/2004	11:00:00	0.11		MG/L	6.42	UNITS	0.0260	MG/L	181.10	UMHOS/CM
ROUTINE SAMPLE	06/15/2004	11:00:00	0.14		MG/L	6.79	UNITS	0.0330	MG/L	166.40	UMHOS/CM
ROUTINE SAMPLE	07/20/2004	10:55:00	0.14		MG/L	6.63	UNITS	0.0450	MG/L	201.20	UMHOS/CM
ROUTINE SAMPLE	08/11/2004	11:00:00	0.05	<	MG/L	7.01	UNITS	0.0710	MG/L	211.50	UMHOS/CM
ROUTINE SAMPLE	09/22/2004	10:55:00	0.06		MG/L	6.71	UNITS	0.0330	MG/L	143.10	UMHOS/CM
ROUTINE SAMPLE	09/27/2004	11:08:00	nd		MG/L	nd	UNITS	nd	MG/L	nd	UMHOS/CM
ROUTINE SAMPLE	10/21/2004	12:00:00	0.08		MG/L	6.09	UNITS	0.0320	MG/L	178.50	UMHOS/CM
ROUTINE SAMPLE	11/17/2004	11:48:00	nd		MG/L	7.02	UNITS	0.0210	MG/L	187.60	UMHOS/CM
ROUTINE SAMPLE	12/08/2004	09:32:00	0.10		MG/L	6.7	UNITS	0.0190	MG/L	99.90	UMHOS/CM

ACTIVITY CATEGORY	START DATE	START TIME	TEMP RESULTS	TEMP UNITS	TSS RESULTS	TSS QUAL	TSS UNITS	TURB RESULTS	TURB UNITS	WEATHER COMMENTS RESULTS
ROUTINE SAMPLE	03/23/2004	11:17:00	1.10	DEG C	2		MG/L	3.20	NTU	CLEAR, BREEZY, 40'S
ROUTINE SAMPLE	04/20/2004	10:45:00	14.80	DEG C	3.50		MG/L	1.60	NTU	CLEAR, BREEZY, 50'S
FIELD DUPLICATE	04/20/2004	11:00:00	14.80	DEG C	2.50		MG/L	1.60	NTU	CLEAR, BREEZY, 50'S
ROUTINE SAMPLE	05/18/2004	11:00:00	19.20	DEG C	1	<	MG/L	2.20	NTU	CLOUDY W/INTER-MITTENT RAIN, BREEZY, 70'S
ROUTINE SAMPLE	06/15/2004	11:00:00	22.50	DEG C	1	<	MG/L	4.80	NTU	CLOUDY W/O RAIN, CALM, 80 DEGREES F
ROUTINE SAMPLE	07/20/2004	10:55:00	23.90	DEG C	5	<	MG/L	4.20	NTU	CLOUDY W/O RAIN, CALM, 80 DEGREES F
ROUTINE SAMPLE	08/11/2004	11:00:00	24.40	DEG C	8		MG/L	2.20	NTU	CLOUDY W/O RAIN, BREEZE, 80S
ROUTINE SAMPLE	09/22/2004	10:55:00	15.60	DEG C	5	<	MG/L	2.90	NTU	CLEAR, CALM, 70 DEGREES F

ROUTINE SAMPLE	09/27/2004	11:08:00	17.90	DEG C	nd		MG/L	nd	NTU	CLEAR, CALM, 70 DEGREES F
ROUTINE SAMPLE	10/21/2004	12:00:00	10	DEG C	7		MG/L	3.20	NTU	CLOUDY W/O RAIN, CALM, 40S
ROUTINE SAMPLE	11/17/2004	11:48:00	4.20	DEG C	5	<	MG/L	3.10	NTU	CLEAR, CALM, 50S
ROUTINE SAMPLE	12/08/2004	09:32:00	1.10	DEG C	5	<	MG/L	2.90	NTU	CLOUDY W/O RAIN

**Legend**

BOD	BIOCHEMICAL OXYGEN DEMAND
CHL	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
DO	DISSOLVED OXYGEN
DO SAT	DISSOLVED OXYGEN SATURATION
DELETED	LAB ACCIDENT
EC	ESCHERICHIA COLI
NITR	NITROGEN AMMONIA
TKN	NITROGEN KJELDAHL
nd	NO SAMPLE COLLECTED OR NO MEASUREMENT MADE
NO2NO3	NITROGEN NITRATE + NITRITE
P	PHOSPHORUS AS P
QUAL	QUALIFIER
COND	SPECIFIC CONDUCTANCE
TEMP	TEMPERATURE
TSS	TOTAL SUSPENDED SOLIDS
TURB	TURBIDITY



**Lamprey River at Rt. 108 Bridge, Newmarket, 05-LMP**

**Note: Data not meeting RPD are shaded.**

ACTIVITY CATEGORY	START DATE	START TIME	BOD	BOD	BOD	CHL	CHL	DO	DO	DO SAT	DO SAT
			RESULTS	QUAL	UNITS	RESULTS	UNITS	RESULTS	UNITS	RESULTS	UNITS
ROUTINE SAMPLE	03/24/2004	09:50:00	2.40	<	MG/L	1.26	UG/L	14.57	MG/L	100.60	%
ROUTINE SAMPLE	04/22/2004	09:14:00	2.40	<	MG/L	3.11	UG/L	10.27	MG/L	97.60	%
ROUTINE SAMPLE	05/19/2004	09:27:00	2.40	<	MG/L	3.25	UG/L	8.64	MG/L	93.30	%
ROUTINE SAMPLE	06/15/2004	11:37:00	2.40	<	MG/L	7.28	UG/L	8.93	MG/L	105.60	%
ROUTINE SAMPLE	07/20/2004	11:30:00	2.40	<	MG/L	10.90	UG/L	8.65	MG/L	102.70	%
ROUTINE SAMPLE	08/11/2004	11:40:00	2.40	<	MG/L	6.02	UG/L	8.42	MG/L	99.20	%
ROUTINE SAMPLE	09/23/2004	09:20:00	2	<	MG/L	nd	UG/L	9.02	MG/L	92.90	%
ROUTINE SAMPLE	10/21/2004	12:00:00	2.40	<	MG/L	1.75	UG/L	10.24	MG/L	91.30	%
ROUTINE SAMPLE	11/18/2004	11:24:00	2.40	<	MG/L	1.61	UG/L	12.86	MG/L	97.40	%
ROUTINE SAMPLE	12/08/2004	10:06:00	3		MG/L	1.47	UG/L	13.51	MG/L	95.50	%

ACTIVITY CATEGORY	START DATE	START TIME	EC	EC	EC	NITR	NITR	NITR	TKN	TKN
			RESULTS	QUAL	UNITS	RESULTS	QUAL	UNITS	RESULTS	UNITS
ROUTINE SAMPLE	03/24/2004	09:50:00	10		CTS/100ML	0.05	<	MG/L	0.30	MG/L
ROUTINE SAMPLE	04/22/2004	09:14:00	10	<	CTS/100ML	0.20	<	MG/L	0.30	MG/L
ROUTINE SAMPLE	05/19/2004	09:27:00	80		CTS/100ML	0.05	<	MG/L	0.30	MG/L
ROUTINE SAMPLE	06/15/2004	11:37:00	5		CTS/100ML	0.05	<	MG/L	0.80	MG/L
ROUTINE SAMPLE	07/20/2004	11:30:00	10	<	CTS/100ML	0.05	<	MG/L	0.50	MG/L
ROUTINE SAMPLE	08/11/2004	11:40:00	5		CTS/100ML	0.05	<	MG/L	0.40	MG/L
ROUTINE SAMPLE	09/23/2004	09:20:00	50		CTS/100ML	0.05	<	MG/L	0.50	MG/L
ROUTINE SAMPLE	10/21/2004	12:00:00	10		CTS/100ML	0.05	<	MG/L	0.50	MG/L
ROUTINE SAMPLE	11/18/2004	11:24:00	20		CTS/100ML	0.10	<	MG/L	0.40	MG/L
ROUTINE SAMPLE	12/08/2004	10:06:00	10	<	CTS/100ML	0.05	<	MG/L	0.40	MG/L

ACTIVITY CATEGORY	START DATE	START TIME	NO2NO3 RESULTS	NO2NO3 QUAL	NO2NO3 UNITS	PH RESULTS	PH UNITS	P RESULTS	P UNITS	COND RESULTS	COND UNITS
ROUTINE SAMPLE	03/24/2004	09:50:00	0.22		MG/L	5.60	UNITS	0.02	MG/L	85	UMHOS/CM
ROUTINE SAMPLE	04/22/2004	09:14:00	0.09		MG/L	5.76	UNITS	0.0150	MG/L	92.40	UMHOS/CM
ROUTINE SAMPLE	05/19/2004	09:27:00	0.09		MG/L	5.97	UNITS	0.0160	MG/L	132.70	UMHOS/CM
ROUTINE SAMPLE	06/15/2004	11:37:00	0.10		MG/L	6.83	UNITS	0.02	MG/L	138.60	UMHOS/CM
ROUTINE SAMPLE	07/20/2004	11:30:00	0.16		MG/L	6.69	UNITS	0.0260	MG/L	192.60	UMHOS/CM
ROUTINE SAMPLE	08/11/2004	11:40:00	0.05	<	MG/L	7.02	UNITS	0.0250	MG/L	185.50	UMHOS/CM
ROUTINE SAMPLE	09/23/2004	09:20:00	0.06		MG/L	5.81	UNITS	0.0220	MG/L	124.20	UMHOS/CM
ROUTINE SAMPLE	10/21/2004	12:00:00	0.10		MG/L	6.68	UNITS	0.0160	MG/L	150.30	UMHOS/CM
ROUTINE SAMPLE	11/18/2004	11:24:00	0.11		MG/L	6.66	UNITS	0.0220	MG/L	124.90	UMHOS/CM
ROUTINE SAMPLE	12/08/2004	10:06:00	0.10		MG/L	6.8	UNITS	0.0130	MG/L	57.80	UMHOS/CM

ACTIVITY CATEGORY	START DATE	START TIME	TEMP RESULTS	TEMP UNITS	TSS RESULTS	TSS QUAL	TSS UNITS	TURB RESULTS	TURB UNITS	WEATHER COMMENTS RESULTS
ROUTINE SAMPLE	03/24/2004	09:50:00	2.20	DEG C	3		MG/L	2.20	NTU	CLEAR, BREEZY, 40'S
ROUTINE SAMPLE	04/22/2004	09:14:00	13	DEG C	2.50		MG/L	2.30	NTU	CLOUDY W/RAIN, CALM, 60'S
ROUTINE SAMPLE	05/19/2004	09:27:00	19	DEG C	1	<	MG/L	2	NTU	CLOUDY W/O RAIN, CALM, 70'S
ROUTINE SAMPLE	06/15/2004	11:37:00	23.70	DEG C	1	<	MG/L	9.20	NTU	CLOUDY W/O RAIN, CALM, 80 DEGREES F
ROUTINE SAMPLE	07/20/2004	11:30:00	24.10	DEG C	5.50		MG/L	1.80	NTU	CLOUDY W/O RAIN, BREEZE, 80 DEGREES F
ROUTINE SAMPLE	08/11/2004	11:40:00	23.60	DEG C	7		MG/L	1.60	NTU	CLOUDY W/O RAIN, WIND, 80S
ROUTINE SAMPLE	09/23/2004	09:20:00	16.50	DEG C	5	<	MG/L	2.40	NTU	CLEAR, SUNNY
ROUTINE SAMPLE	10/21/2004	12:00:00	10.30	DEG C	5	<	MG/L	1.20	NTU	CLOUDY W/O RAIN, CALM, 50S
ROUTINE SAMPLE	11/18/2004	11:24:00	3.70	DEG C	5	<	MG/L	1.80	NTU	CLOUDY W/O RAIN, CALM, 50S
ROUTINE SAMPLE	12/08/2004	10:06:00	1.20	DEG C	5	<	MG/L	1.90	NTU	CLOUDY W/O RAIN, CALM, 30S

LEDGEND	
BOD	BIOCHEMICAL OXYGEN DEMAND
CHL	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
DO	DISSOLVED OXYGEN
DO SAT	DISSOLVED OXYGEN SATURATION
DELETED	LAB ACCIDENT
EC	ESCHERICHIA COLI
NITR	NITROGEN AMMONIA
TKN	NITROGEN KJELDAHL
nd	NO SAMPLE COLLECTED OR NO MEASUREMENT MADE
NO2NO3	NITROGEN NITRATE + NITRITE
P	PHOSPHORUS AS P
QUAL	QUALIFIER
COND	SPECIFIC CONDUCTANCE
TEMP	TEMPERATURE WATER
TSS	TOTAL SUSPENDED SOLIDS
TURB	TURBIDITY

### Oyster River at the Rt. 108 Bridge and Mill Pond, Durham, 05-OYS

Note: Data not meeting RPD are shaded.

ACTIVITY CATEGORY	START DATE	START TIME	BOD RESULTS	BOD QUAL	BOD UNITS	CHL RESULTS	CHL UNITS	DO RESULTS	DO UNITS	DO SAT RESULTS	DO SAT UNITS
ROUTINE SAMPLE	03/24/2004	10:22:00	2.40	<	MG/L	1.26	UG/L	13.06	MG/L	93.20	%
ROUTINE SAMPLE	04/22/2004	09:41:00	2.40	<	MG/L	2.73	UG/L	9.72	MG/L	91.20	%
ROUTINE SAMPLE	05/19/2004	09:51:00	2.40	<	MG/L	5.45	UG/L	8.25	MG/L	88.10	%
ROUTINE SAMPLE	06/16/2004	09:20:00	2.40	<	MG/L	7.63	UG/L	8.59	MG/L	97.80	%
FIELD DUPLICATE	07/22/2004	09:45:00	2.50		MG/L	9.27	UG/L	8.43	MG/L	99.60	%
ROUTINE SAMPLE	07/22/2004	09:45:00	2.40	<	MG/L	7.94	UG/L	8.74	MG/L	103	%
ROUTINE SAMPLE	08/10/2004	10:30:00	3.60		MG/L	33.55	UG/L	8.56	MG/L	99	%
FIELD DUPLICATE	08/10/2004	10:42:00	2.40	<	MG/L	9.29	UG/L	10.61	MG/L	125.40	%
ROUTINE SAMPLE	08/20/2004	09:45:00	nd		MG/L	nd	UG/L	8.35	MG/L	93.70	%
FIELD DUPLICATE	08/20/2004	09:56:00	nd		MG/L	nd	UG/L	8.42	MG/L	96.10	%

ROUTINE SAMPLE	09/23/2004	09:50:00	2	<	MG/L	nd	UG/L	8.52	MG/L	89.70	%
ROUTINE SAMPLE	10/21/2004	12:00:00	2.40	<	MG/L	3.44	UG/L	8.83	MG/L	77	%
FIELD DUPLICATE	10/21/2004	12:00:00	2.40	<	MG/L	3.06	UG/L	8.67	MG/L	75.70	%
ROUTINE SAMPLE	11/18/2004	10:54:00	2.40	<	MG/L	1.61	UG/L	12.12	MG/L	91.80	%
ROUTINE SAMPLE	12/08/2004	10:33:00	2.60		MG/L	1.45	UG/L	12.80	MG/L	90.60	%

ACTIVITY CATEGORY	START DATE	START TIME	EC	EC	EC	NITR	NITR	NITR	TKN	TKN
			RESULTS	QUAL	UNITS	RESULTS	QUAL	UNITS	RESULTS	UNITS
ROUTINE SAMPLE	03/24/2004	10:22:00	5		CTS/100ML	0.09		MG/L	0.40	MG/L
ROUTINE SAMPLE	04/22/2004	09:41:00	50		CTS/100ML	0.20	<	MG/L	0.40	MG/L
ROUTINE SAMPLE	05/19/2004	09:51:00	270		CTS/100ML	0.05	<	MG/L	0.60	MG/L
ROUTINE SAMPLE	06/16/2004	09:20:00	50		CTS/100ML	0.05	<	MG/L	0.50	MG/L
FIELD DUPLICATE	07/22/2004	09:45:00	270		CTS/100ML	0.05	<	MG/L	0.50	MG/L
ROUTINE SAMPLE	07/22/2004	09:45:00	90		CTS/100ML	0.05	<	MG/L	0.40	MG/L
ROUTINE SAMPLE	08/10/2004	10:30:00	10		CTS/100ML	0.05	<	MG/L	0.70	MG/L
FIELD DUPLICATE	08/10/2004	10:42:00	10	<	CTS/100ML	0.05	<	MG/L	0.60	MG/L
ROUTINE SAMPLE	08/20/2004	09:45:00	nd		CTS/100ML	nd		MG/L	nd	MG/L
FIELD DUPLICATE	08/20/2004	09:56:00	nd		CTS/100ML	nd		MG/L	nd	MG/L
ROUTINE SAMPLE	09/23/2004	09:50:00	50		CTS/100ML	0.05	<	MG/L	0.80	MG/L
ROUTINE SAMPLE	10/21/2004	12:00:00	80		CTS/100ML	0.05	<	MG/L	0.60	MG/L
FIELD DUPLICATE	10/21/2004	12:00:00	20		CTS/100ML	0.05		MG/L	0.60	MG/L
ROUTINE SAMPLE	11/18/2004	10:54:00	10	<	CTS/100ML	0.10	<	MG/L	0.30	MG/L
ROUTINE SAMPLE	12/08/2004	10:33:00	60		CTS/100ML	0.05	<	MG/L	0.50	MG/L

ACTIVITY CATEGORY	START DATE	START TIME	NO2NO3	NO2NO3	NO2NO3	PH	PH	P	P	COND	COND
			RESULTS	QUAL	UNITS	RESULTS	UNITS	RESULTS	UNITS	RESULTS	UNITS
ROUTINE SAMPLE	03/24/2004	10:22:00	0.37		MG/L	5.87	UNITS	0.0380	MG/L	103.90	UMHOS/CM
ROUTINE SAMPLE	04/22/2004	09:41:00	0.14		MG/L	5.98	UNITS	0.0280	MG/L	132.37	UMHOS/CM
ROUTINE SAMPLE	05/19/2004	09:51:00	0.16		MG/L	7.29	UNITS	0.0280	MG/L	183	UMHOS/CM
ROUTINE SAMPLE	06/16/2004	09:20:00	0.23		MG/L	6	UNITS	0.0320	MG/L	208.30	UMHOS/CM
FIELD DUPLICATE	07/22/2004	09:45:00	0.23		MG/L	6.30	UNITS	0.0370	MG/L	257.20	UMHOS/CM
ROUTINE SAMPLE	07/22/2004	09:45:00	0.19		MG/L	6.21	UNITS	0.0360	MG/L	255.30	UMHOS/CM
ROUTINE SAMPLE	08/10/2004	10:30:00	0.05	<	MG/L	6.79	UNITS	0.0340	MG/L	345.10	UMHOS/CM

FIELD DUPLICATE	08/10/2004	10:42:00	0.05	<	MG/L	7.07	UNITS	0.0270	MG/L	334.20	UMHOS/CM
ROUTINE SAMPLE	08/20/2004	09:45:00	nd		MG/L	nd	UNITS	nd	MG/L	nd	UMHOS/CM
FIELD DUPLICATE	08/20/2004	09:56:00	nd		MG/L	nd	UNITS	nd	MG/L	nd	UMHOS/CM
ROUTINE SAMPLE	09/23/2004	09:50:00	0.25		MG/L	6.55	UNITS	0.0550	MG/L	170.70	UMHOS/CM
ROUTINE SAMPLE	10/21/2004	12:00:00	0.21		MG/L	6.53	UNITS	0.0330	MG/L	198.70	UMHOS/CM
FIELD DUPLICATE	10/21/2004	12:00:00	0.21		MG/L	6.48	UNITS	0.0350	MG/L	198.60	UMHOS/CM
ROUTINE SAMPLE	11/18/2004	10:54:00	0.29		MG/L	6.49	UNITS	0.0150	MG/L	193.30	UMHOS/CM
ROUTINE SAMPLE	12/08/2004	10:33:00	0.28		MG/L	6.7	UNITS	0.0220	MG/L	180.50	UMHOS/CM

ACTIVITY CATEGORY	START DATE	START TIME	TEMP RESULTS	TEMP UNITS	TSS RESULTS	TSS QUAL	TSS UNITS	TURB RESULTS	TURB UNITS	WEATHER COMMENTS RESULTS
ROUTINE SAMPLE	03/24/2004	10:22:00	1.60	DEG C	7.50		MG/L	9.10	NTU	CLEAR, BREEZY, 40'S
ROUTINE SAMPLE	04/22/2004	09:41:00	12.50	DEG C	5.50		MG/L	6.90	NTU	CLOUDY W/ INTER-MITTENT RAIN, CALM, 60'S
ROUTINE SAMPLE	05/19/2004	09:51:00	18.40	DEG C	4.50		MG/L	8.90	NTU	CLOUDY W/O RAIN, BREEZY, 70'S
ROUTINE SAMPLE	06/16/2004	09:20:00	21.90	DEG C	5	<	MG/L	3.70	NTU	CLEAR, BREEZY, 80 DEGREES F
FIELD DUPLICATE	07/22/2004	09:45:00	23.60	DEG C	5	<	MG/L	5.90	NTU	CLEAR, CALM, 80 DEGREES F
ROUTINE SAMPLE	07/22/2004	09:45:00	23.40	DEG C	5.50		MG/L	6.10	NTU	CLEAR, CALM, 80 DEGREES F
ROUTINE SAMPLE	08/10/2004	10:30:00	22.40	DEG C	5	<	MG/L	3.10	NTU	CLEAR, CALM, 80 DEGREES F
FIELD DUPLICATE	08/10/2004	10:42:00	23.60	DEG C	5	<	MG/L	2.70	NTU	CLEAR, CALM, 80 DEGREES F
ROUTINE SAMPLE	08/20/2004	09:45:00	21	DEG C	nd		MG/L	nd	NTU	CLOUDY W/O RAIN, CALM, 70 DEGREES F
FIELD DUPLICATE	08/20/2004	09:56:00	21.90	DEG C	nd		MG/L	nd	NTU	CLOUDY W/O RAIN, CALM, 70 DEGREES F
ROUTINE SAMPLE	09/23/2004	09:50:00	17.70	DEG C	5	<	MG/L	4.90	NTU	SUNNY, CLEAR

ROUTINE SAMPLE	10/21/2004	12:00:00	9.30	DEG C	5.50		MG/L	4.80	NTU	CLOUDY W/O RAIN, BREEZE, 50S
FIELD DUPLICATE	10/21/2004	12:00:00	9.40	DEG C	5	<	MG/L	4.50	NTU	CLOUDY W/O RAIN, BREEZE, 50S
ROUTINE SAMPLE	11/18/2004	10:54:00	3.70	DEG C	5	<	MG/L	3.10	NTU	CLOUDY W/O RAIN, CALM, 50S
ROUTINE SAMPLE	12/08/2004	10:33:00	1.30	DEG C	6		MG/L	4.80	NTU	PARTLY CLOUDY & SUNNY W/O RAIN

#### Legend

BOD	BIOCHEMICAL OXYGEN DEMAND
CHL	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
dl	DATA LOST
DO	DISSOLVED OXYGEN
DO SAT	DISSOLVED OXYGEN SATURATION
DELETED	LAB ACCIDENT
EC	ESCHERICHIA COLI
NITR	NITROGEN AMMONIA
TKN	NITROGEN KJELDAHL
na	ANAYSES NOT YET COMPLETED BY LAB
nd	NO SAMPLE COLLECTED OR NO MEASUREMENT MADE
NO2NO3	NITROGEN NITRATE + NITRITE
P	PHOSPHORUS AS P
QUAL	QUALIFIER
COND	SPECIFIC CONDUCTANCE
TEMP	TEMPERATURE WATER
TSS	TOTAL SUSPENDED SOLIDS
TURB	TURBIDITY

**Bellamy River at Rt. 108 Bridge, Dover, 05-BLM**

**Note: Data not meeting RPD are shaded.**

ACTIVITY CATEGORY	START DATE	START TIME	BOD RESULTS	BOD QUAL	BOD UNITS	CHL RESULTS	CHL UNITS	DO RESULTS	DO UNITS	DO SAT RESULTS	DO SAT UNITS
ROUTINE SAMPLE	03/24/2004	10:47:00	2.40	<	MG/L	2.89	UG/L	12.80	MG/L	97.20	%
ROUTINE SAMPLE	04/22/2004	10:08:00	2.40	<	MG/L	3.48	UG/L	10.70	MG/L	99.50	%
ROUTINE SAMPLE	05/19/2004	10:13:00	2.40	<	MG/L	6	UG/L	8.67	MG/L	94.40	%
ROUTINE SAMPLE	06/16/2004	09:20:00	2.40	<	MG/L	5.77	UG/L	8.39	MG/L	100	%
ROUTINE SAMPLE	07/22/2004	10:34:00	2.40	<	MG/L	6.66	UG/L	8.53	MG/L	103.70	%
ROUTINE SAMPLE	08/10/2004	10:05:00	2.40	<	MG/L	6.52	UG/L	7.76	MG/L	92.30	%
ROUTINE SAMPLE	08/20/2004	10:10:00	nd		MG/L	nd	UG/L	9.47	MG/L	113.20	%
ROUTINE SAMPLE	09/23/2004	10:20:00	2	<	MG/L	nd	UG/L	8.35	MG/L	90.30	%
ROUTINE SAMPLE	10/21/2004	12:00:00	2.40	<	MG/L	2.67	UG/L	9.64	MG/L	85.40	%
ROUTINE SAMPLE	11/18/2004	10:21:00	2.40	<	MG/L	2.35	UG/L	12.29	MG/L	96.10	%
ROUTINE SAMPLE	12/08/2004	10:57:00	2.90		MG/L	3.08	UG/L	12.88	MG/L	93.70	%

ACTIVITY CATEGORY	START DATE	START TIME	EC RESULTS	EC QUAL	EC UNITS	NITR RESULTS	NITR QUAL	NITR UNITS	TKN RESULTS	TKN UNITS
ROUTINE SAMPLE	03/24/2004	10:47:00	10		CTS/100ML	0.05	<	MG/L	0.40	MG/L
ROUTINE SAMPLE	04/22/2004	10:08:00	10	<	CTS/100ML	0.20	<	MG/L	0.30	MG/L
ROUTINE SAMPLE	05/19/2004	10:13:00	800		CTS/100ML	0.05	<	MG/L	0.60	MG/L
ROUTINE SAMPLE	06/16/2004	09:20:00	100		CTS/100ML	0.05	<	MG/L	0.50	MG/L
ROUTINE SAMPLE	07/22/2004	10:34:00	20		CTS/100ML	0.05	<	MG/L	0.50	MG/L
ROUTINE SAMPLE	08/10/2004	10:05:00	10	<	CTS/100ML	0.05	<	MG/L	0.40	MG/L
ROUTINE SAMPLE	08/20/2004	10:10:00	nd		CTS/100ML	nd		MG/L	nd	MG/L
ROUTINE SAMPLE	09/23/2004	10:20:00	40		CTS/100ML	0.05	<	MG/L	0.60	MG/L
ROUTINE SAMPLE	10/21/2004	12:00:00	70		CTS/100ML	0.0120		MG/L	0.60	MG/L
ROUTINE SAMPLE	11/18/2004	10:21:00	10	<	CTS/100ML	0.10	<	MG/L	0.40	MG/L
ROUTINE SAMPLE	12/08/2004	10:57:00	50		CTS/100ML	0.05	<	MG/L	0.40	MG/L

ACTIVITY CATEGORY	START DATE	START TIME	NO2NO3 RESULTS	NO2NO3 QUALIFIER	NO2NO3 UNITS	PH RESULTS	PH UNITS	P RESULTS	P UNITS	COND RESULTS	COND UNITS
ROUTINE SAMPLE	03/24/2004	10:47:00	0.14		MG/L	5.98	UNITS	0.0210	MG/L	83.60	UMHOS/CM
ROUTINE SAMPLE	04/22/2004	10:08:00	0.08		MG/L	6.13	UNITS	0.0180	MG/L	86.20	UMHOS/CM
ROUTINE SAMPLE	05/19/2004	10:13:00	0.07		MG/L	7.32	UNITS	0.0220	MG/L	123.30	UMHOS/CM
ROUTINE SAMPLE	06/16/2004	09:20:00	0.10		MG/L	6.12	UNITS	0.0320	MG/L	119	UMHOS/CM
ROUTINE SAMPLE	07/22/2004	10:34:00	0.05		MG/L	6.41	UNITS	0.0320	MG/L	217.70	UMHOS/CM
ROUTINE SAMPLE	08/10/2004	10:05:00	0.05	<	MG/L	6.54	UNITS	0.0280	MG/L	254	UMHOS/CM
ROUTINE SAMPLE	08/20/2004	10:10:00	nd		MG/L	nd	UNITS	nd	MG/L	nd	UMHOS/CM
ROUTINE SAMPLE	09/23/2004	10:20:00	0.05	<	MG/L	6.70	UNITS	0.0230	MG/L	112	UMHOS/CM
ROUTINE SAMPLE	10/21/2004	12:00:00	0.05	<	MG/L	6.62	UNITS	0.0220	MG/L	115.60	UMHOS/CM
ROUTINE SAMPLE	11/18/2004	10:21:00	0.09		MG/L	6.63	UNITS	0.02	MG/L	131	UMHOS/CM
ROUTINE SAMPLE	12/08/2004	10:57:00	0.10		MG/L	6.9	UNITS	0.0150	MG/L	72.20	UMHOS/CM

ACTIVITY CATEGORY	START DATE	START TIME	TEMP RESULTS	TEMP UNITS	TSS RESULTS	TSS QUAL	TSS UNITS	TURB RESULTS	TURB UNITS	WEATHER COMMENTS RESULTS
ROUTINE SAMPLE	03/24/2004	10:47:00	3.90	DEG C	4		MG/L	2.80	NTU	CLEAR, BREEZY, 40'S
ROUTINE SAMPLE	04/22/2004	10:08:00	12.10	DEG C	3		MG/L	2.90	NTU	CLOUDY W/ INTER-MITTENT RAIN, CALM, 60'S
ROUTINE SAMPLE	05/19/2004	10:13:00	19.60	DEG C	5		MG/L	11	NTU	CLOUDY W/O RAIN, BREEZY, 70'S
ROUTINE SAMPLE	06/16/2004	09:20:00	24.10	DEG C	5	<	MG/L	4.20	NTU	CLEAR, BREEZY, 80 DEGREES F
ROUTINE SAMPLE	07/22/2004	10:34:00	25.40	DEG C	5	<	MG/L	5.80	NTU	CLEAR, CALM, 80 DEGREES F
ROUTINE SAMPLE	08/10/2004	10:05:00	24.10	DEG C	5	<	MG/L	3.70	NTU	CLEAR, CALM, 80 DEGREES F
ROUTINE SAMPLE	08/20/2004	10:10:00	24.10	DEG C	nd		MG/L	nd	NTU	CLOUDY W/O RAIN, CALM, 70 DEGREES F
ROUTINE SAMPLE	09/23/2004	10:20:00	19.20	DEG C	5	<	MG/L	4.90	NTU	SUNNY, CLEAR
ROUTINE SAMPLE	10/21/2004	12:00:00	10	DEG C	6		MG/L	8.20	NTU	CLOUDY W/O RAIN, BREEZE, 50S



ROUTINE SAMPLE	11/18/2004	10:21:00	4.90	DEG C	5	<	MG/L	3.40	NTU	CLOUDY W/O RAIN, CALM, 50S
ROUTINE SAMPLE	12/08/2004	10:57:00	2.30	DEG C	5	<	MG/L	2	NTU	PARTLY CLOUDY & SUNNY W/O RAIN

**Legend**

BOD	BIOCHEMICAL OXYGEN DEMAND
CHL	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
DO	DISSOLVED OXYGEN
DO SAT	DISSOLVED OXYGEN SATURATION
DELETED	LAB ACCIDENT
EC	ESCHERICHIA COLI
NITR	NITROGEN AMMONIA
TKN	NITROGEN KJELDAHL
nd	NO SAMPLE COLLECTED OR NO MEASUREMENT MADE
NO2NO3	NITROGEN NITRATE + NITRITE
P	PHOSPHORUS AS P
QUAL	QUALIFIER
COND	SPECIFIC CONDUCTANCE
TEMP	TEMPERATURE
TSS	WATER
TSS	TOTAL SUSPENDED SOLIDS
TURB	TURBIDITY

**Cocheco River at the Rt. 9 Bridge (Central Avenue), Dover, 07-CCH**

**Note: Data not meeting RPD are shaded.**

ACTIVITY CATEGORY	START DATE	START TIME	BOD RESULTS	BOD QUAL	BOD UNITS	CHL RESULTS	CHL UNITS	DO RESULTS	DO UNITS	DO SAT RESULTS	DO SAT UNITS
ROUTINE SAMPLE	03/24/2004	11:06:00	2.4	<		2.35	UG/L	13.64	MG/L	98.40	%
ROUTINE SAMPLE	04/22/2004	11:00:00	2.40	<	MG/L	2.20	UG/L	10.47	MG/L	98.10	%

ROUTINE SAMPLE	05/19/2004	11:03:00	2.40	<	MG/L	5.26	UG/L	9.67	MG/L	102.10	%
ROUTINE SAMPLE	06/16/2004	10:00:00	2.40	<	MG/L	2.67	UG/L	8.58	MG/L	97.40	%
FIELD DUPLICATE	06/16/2004	10:22:00	2.40	<	MG/L	2.45	UG/L	8.49	MG/L	96.60	%
ROUTINE SAMPLE	07/22/2004	10:55:00	2.40	<	MG/L	4.50	UG/L	9.59	MG/L	115.40	%
ROUTINE SAMPLE	08/10/2004	09:10:00	2.40	<	MG/L	3.79	UG/L	7.74	MG/L	89.60	%
ROUTINE SAMPLE	08/20/2004	10:43:00	nd		MG/L	nd	UG/L	9.11	MG/L	104	%
ROUTINE SAMPLE	09/23/2004	11:10:00	2	<	MG/L	nd	UG/L	9.79	MG/L	99.70	%
ROUTINE SAMPLE	10/21/2004	12:00:00	2.40	<	MG/L	1.40	UG/L	10.81	MG/L	95.10	%
ROUTINE SAMPLE	11/18/2004	10:00:00	2.40		MG/L	1.42	UG/L	13.64	MG/L	102	%
ROUTINE SAMPLE	12/08/2004	11:42:00	3		MG/L	1.26	UG/L	13.93	MG/L	98.90	%

ACTIVITY CATEGORY	START DATE	START TIME	EC RESULTS	EC QUAL	EC UNITS	NITR RESULTS	NITR QUAL	NITR UNITS	TKN RESULTS	TKN UNITS
ROUTINE SAMPLE	03/24/2004	11:06:00	10	<	CTS/100ML	0.08		MG/L	0.40	MG/L
ROUTINE SAMPLE	04/22/2004	11:00:00	20		CTS/100ML	0.20	<	MG/L	1.20	MG/L
ROUTINE SAMPLE	05/19/2004	11:03:00	130		CTS/100ML	0.05		MG/L	0.50	MG/L
ROUTINE SAMPLE	06/16/2004	10:00:00	70		CTS/100ML	0.05	<	MG/L	0.50	MG/L
FIELD DUPLICATE	06/16/2004	10:22:00	50		CTS/100ML	0.05	<	MG/L	0.40	MG/L
ROUTINE SAMPLE	07/22/2004	10:55:00	60		CTS/100ML	0.05	<	MG/L	0.40	MG/L
ROUTINE SAMPLE	08/10/2004	09:10:00	60		CTS/100ML	0.05	<	MG/L	0.40	MG/L
ROUTINE SAMPLE	08/20/2004	10:43:00	nd		CTS/100ML	nd		MG/L	nd	MG/L
ROUTINE SAMPLE	09/23/2004	11:10:00	150		CTS/100ML	0.05	<	MG/L	0.40	MG/L
ROUTINE	10/21/2004	12:00:00	60		CTS/100ML	0.05		MG/L	0.40	MG/L

SAMPLE ROUTINE SAMPLE	11/18/2004	10:00:00	10	<	CTS/100ML	0.10	<	MG/L	0.30	MG/L
SAMPLE ROUTINE SAMPLE	12/08/2004	11:42:00	20		CTS/100ML	0.05	<	MG/L	0.30	MG/L

ACTIVITY CATEGORY	START DATE	START TIME	NO2NO3 RESULTS	NO2NO3 UNITS	PH RESULTS	PH UNITS	P RESULTS	P UNITS	COND RESULTS	COND UNITS
ROUTINE SAMPLE	03/24/2004	11:06:00	0.80	MG/L	5.90	UNITS	0.0490	MG/L	114.90	UMHOS/CM
ROUTINE SAMPLE	04/22/2004	11:00:00	0.37	MG/L	5.92	UNITS	0.03	MG/L	103.80	UMHOS/CM
ROUTINE SAMPLE	05/19/2004	11:03:00	0.28	MG/L	7.23	UNITS	0.0590	MG/L	122.10	UMHOS/CM
ROUTINE SAMPLE	06/16/2004	10:00:00	0.71	MG/L	6.15	UNITS	0.1070	MG/L	138.50	UMHOS/CM
FIELD DUPLICATE	06/16/2004	10:22:00	0.71	MG/L	6.25	UNITS	0.1030	MG/L	138.80	UMHOS/CM
ROUTINE SAMPLE	07/22/2004	10:55:00	1.29	MG/L	6.53	UNITS	0.1510	MG/L	221.10	UMHOS/CM
ROUTINE SAMPLE	08/10/2004	09:10:00	0.98	MG/L	6.35	UNITS	0.1130	MG/L	219	UMHOS/CM
ROUTINE SAMPLE	08/20/2004	10:43:00	nd	MG/L	nd	UNITS	nd	MG/L	nd	UMHOS/CM
ROUTINE SAMPLE	09/23/2004	11:10:00	0.32	MG/L	6.73	UNITS	0.0770	MG/L	99.90	UMHOS/CM
ROUTINE SAMPLE	10/21/2004	12:00:00	0.31	MG/L	6.77	UNITS	0.0450	MG/L	121.30	UMHOS/CM
ROUTINE SAMPLE	11/18/2004	10:00:00	0.69	MG/L	6.68	UNITS	0.0430	MG/L	141.80	UMHOS/CM
ROUTINE SAMPLE	12/08/2004	11:42:00	0.29	MG/L	6.7	UNITS	0.0230	MG/L	69.30	UMHOS/CM

ACTIVITY CATEGORY	START DATE	START TIME	TEMP RESULTS	TEMP UNITS	TSS RESULTS	TSS QUAL	TSS UNITS	TURB RESULTS	TURB UNITS	WEATHER COMMENTS RESULTS
ROUTINE SAMPLE	03/24/2004	11:06:00	2.10	DEG C	7		MG/L	8.50	NTU	CLEAR, BREEZY, 40'S

ROUTINE SAMPLE	04/22/2004	11:00:00	12.20	DEG C	1.50		MG/L	3.10	NTU	CLOUDY W/ INTER-MITTENT RAIN, CALM, 60'S
ROUTINE SAMPLE	05/19/2004	11:03:00	18.10	DEG C	1		MG/L	2.90	NTU	CLOUDY W/O RAIN, BREEZY, 70'S
ROUTINE SAMPLE	06/16/2004	10:00:00	21.60	DEG C	5	<	MG/L	2.50	NTU	CLEAR, BREEZY, 80 DEGREES F
FIELD DUPLICATE	06/16/2004	10:22:00	21.80	DEG C	5	<	MG/L	2.50	NTU	
ROUTINE SAMPLE	07/22/2004	10:55:00	24.50	DEG C	5	<	MG/L	3.50	NTU	CLEAR, CALM, 80 DEGREES F
ROUTINE SAMPLE	08/10/2004	09:10:00	22.40	DEG C	5	<	MG/L	2.10	NTU	CLEAR, CALM, 80 DEGREES F
ROUTINE SAMPLE	08/20/2004	10:43:00	21.90	DEG C	nd		MG/L	nd	NTU	CLOUDY W/O RAIN, CALM, 70 DEGREES F
ROUTINE SAMPLE	09/23/2004	11:10:00	17	DEG C	5	<	MG/L	2.50	NTU	SUNNY, CLEAR
ROUTINE SAMPLE	10/21/2004	12:00:00	9.70	DEG C	5	<	MG/L	2.20	NTU	CLOUDY W/O RAIN, BREEZE, 50S
ROUTINE SAMPLE	11/18/2004	10:00:00	3.30	DEG C	5	<	MG/L	2.10	NTU	CLOUDY W/O RAIN, CALM, 50S
ROUTINE SAMPLE	12/08/2004	11:42:00	1.30	DEG C	5	<	MG/L	1.90	NTU	PARTLY CLOUDY & SUNNY W/O RAIN

#### Legend

BOD	BIOCHEMICAL OXYGEN DEMAND
CHL	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
DO	DISSOLVED OXYGEN
DO SAT	DISSOLVED OXYGEN SATURATION
DELETED	LAB ACCIDENT
EC	ESCHERICHIA COLI
NITR	NITROGEN AMMONIA
TKN	NITROGEN KJELDAHL
nd	NO SAMPLE COLLECTED OR NO MEASUREMENT MADE
NO2NO3	NITROGEN NITRATE + NITRITE
P	PHOSPHORUS AS P

QUAL	QUALIFIER
COND	SPECIFIC CONDUCTANCE
TEMP	TEMPERATURE WATER
TSS	TOTAL SUSPENDED SOLIDS
TURB	TURBIDITY

**Salmon Falls River at Rt. 4, Rollinsford, 05-SFR**  
**Note: Data not meeting RPD are shaded.**

ACTIVITY CATEGORY	START DATE	START TIME	BOD RESULTS	BOD QUAL	BOD UNITS	CHL RESULTS	CHL UNITS	DO RESULTS	DO UNITS	DO SAT RESULTS	DO SAT UNITS
ROUTINE SAMPLE FIELD	03/24/2004	11:26:00	2.40	<	MG/L	2.18	UG/L	13.47	MG/L	99.30	%
DUPLICATE ROUTINE SAMPLE	03/24/2004	11:40:00	2.40	<	MG/L	3.06	UG/L	12.98	MG/L	95.50	%
ROUTINE SAMPLE	04/22/2004	10:34:00	2.40	<	MG/L	1.83	UG/L	10.39	MG/L	96.70	%
ROUTINE SAMPLE	05/19/2004	10:37:00	2.40	<	MG/L	4.01	UG/L	8.87	MG/L	95.10	%
ROUTINE SAMPLE	06/16/2004	10:45:00	2.40	<	MG/L	11.89	UG/L	10.24	MG/L	123.30	%
ROUTINE SAMPLE	07/22/2004	11:17:00	2.40	<	MG/L	19.81	UG/L	10.35	MG/L	129.20	%
ROUTINE SAMPLE	08/10/2004	09:36:00	2.40	<	MG/L	18.13	UG/L	8.82	MG/L	104	%
ROUTINE SAMPLE	08/20/2004	10:25:00	nd		MG/L	nd	UG/L	8.87	MG/L	104.50	%
ROUTINE SAMPLE	09/23/2004	10:42:00	2	<	MG/L	nd	UG/L	9	MG/L	95.60	%
ROUTINE SAMPLE	10/21/2004	12:00:00	2.40	<	MG/L	1.97	UG/L	10.30	MG/L	91	%
ROUTINE SAMPLE	11/18/2004	09:29:00	2.40	<	MG/L	0.86	UG/L	11.69	MG/L	89.60	%
ROUTINE SAMPLE	12/08/2004	11:22:00	3.20		MG/L	1.28	UG/L	13.42	MG/L	96.10	%

ACTIVITY CATEGORY	START DATE	START TIME	EC RESULTS	EC QUAL	EC UNITS	NITR RESULTS	NITR QUAL	NITR UNITS	TKN RESULTS	TKN UNITS
ROUTINE SAMPLE FIELD	03/24/2004	11:26:00	10		CTS/100ML	0.13		MG/L	0.40	MG/L
DUPLICATE ROUTINE SAMPLE	03/24/2004	11:40:00	10	<	CTS/100ML	0.15		MG/L	0.40	MG/L
ROUTINE SAMPLE	04/22/2004	10:34:00	10	<	CTS/100ML	0.20	<	MG/L	0.30	MG/L
ROUTINE SAMPLE	05/19/2004	10:37:00	360		CTS/100ML	0.08		MG/L	0.50	MG/L
ROUTINE SAMPLE	06/16/2004	10:45:00	20		CTS/100ML	0.05	<	MG/L	0.50	MG/L
ROUTINE SAMPLE	07/22/2004	11:17:00	10		CTS/100ML	0.05	<	MG/L	0.60	MG/L
ROUTINE SAMPLE	08/10/2004	09:36:00	10		CTS/100ML	0.05	<	MG/L	0.60	MG/L
ROUTINE SAMPLE	08/20/2004	10:25:00	nd		CTS/100ML	nd		MG/L	nd	MG/L
ROUTINE SAMPLE	09/23/2004	10:42:00	30		CTS/100ML	0.05	<	MG/L	0.50	MG/L
ROUTINE SAMPLE	10/21/2004	12:00:00	20		CTS/100ML	0.05	<	MG/L	0.40	MG/L
ROUTINE SAMPLE	11/18/2004	09:29:00	10		CTS/100ML	0.14		MG/L	0.50	MG/L
ROUTINE SAMPLE	12/08/2004	11:22:00	20		CTS/100ML	0.05		MG/L	0.30	MG/L

ACTIVITY CATEGORY	START DATE	START TIME	NO2NO3 RESULTS	NO2NO3 QUAL	NO2NO3 UNITS	PH RESULTS	PH UNITS	P RESULTS	P UNITS	COND RESULTS	COND UNITS
ROUTINE SAMPLE FIELD	03/24/2004	11:26:00	0.24		MG/L	6.06	UNITS	0.0660	MG/L	83.10	UMHOS/CM
DUPLICATE ROUTINE SAMPLE	03/24/2004	11:40:00	0.25		MG/L	6.01	UNITS	0.0460	MG/L	82.90	UMHOS/CM
ROUTINE SAMPLE	04/22/2004	10:34:00	0.14		MG/L	6.11	UNITS	0.0250	MG/L	71.70	UMHOS/CM
ROUTINE SAMPLE	05/19/2004	10:37:00	0.11		MG/L	7.20	UNITS	0.0190	MG/L	101.80	UMHOS/CM
ROUTINE SAMPLE	06/16/2004	10:45:00	0.23		MG/L	6.24	UNITS	0.0320	MG/L	115.30	UMHOS/CM
ROUTINE SAMPLE	07/22/2004	11:17:00	0.20		MG/L	6.75	UNITS	0.0380	MG/L	145.20	UMHOS/CM

ROUTINE SAMPLE	08/10/2004	09:36:00	0.16		MG/L	6.70	UNITS	0.0360	MG/L	148.30	UMHOS/CM
ROUTINE SAMPLE	08/20/2004	10:25:00	nd		MG/L	nd	UNITS	nd	MG/L	nd	UMHOS/CM
ROUTINE SAMPLE	09/23/2004	10:42:00	0.09		MG/L	6.73	UNITS	0.0190	MG/L	92.20	UMHOS/CM
ROUTINE SAMPLE	10/21/2004	12:00:00	0.08		MG/L	6.78	UNITS	0.0210	MG/L	97.70	UMHOS/CM
ROUTINE SAMPLE	11/18/2004	09:29:00	0.18		MG/L	5.95	UNITS	0.0490	MG/L	122.20	UMHOS/CM
ROUTINE SAMPLE	12/08/2004	11:22:00	0.11		MG/L	6.8	UNITS	0.0240	MG/L	56.50	UMHOS/CM

ACTIVITY CATEGORY	START DATE	START TIME	TEMP RESULTS	TEMP UNITS	TSS RESULTS	TSS QUAL	TSS UNITS	TURB RESULTS	TURB UNITS	WEATHER COMMENTS RESULTS
ROUTINE SAMPLE	03/24/2004	11:26:00	2.80	DEG C	2		MG/L	1.60	NTU	CLEAR, BREEZY, 40'S
FIELD DUPLICATE	03/24/2004	11:40:00	2.70	DEG C	1		MG/L	1.70	NTU	CLEAR, BREEZY, 40'S
ROUTINE SAMPLE	04/22/2004	10:34:00	12.20	DEG C	1		MG/L	1.20	NTU	CLOUDY W/ INTER-MITTENT RAIN, CALM, 60'S
ROUTINE SAMPLE	05/19/2004	10:37:00	18.60	DEG C	2		MG/L	3.90	NTU	CLOUDY W/O RAIN, BREEZY, 70'S
ROUTINE SAMPLE	06/16/2004	10:45:00	24.70	DEG C	5	<	MG/L	2.10	NTU	CLEAR, BREEZY, 80 DEGREES F
ROUTINE SAMPLE	07/22/2004	11:17:00	26.80	DEG C	5	<	MG/L	2.80	NTU	CLEAR, CALM, 80 DEGREES F
ROUTINE SAMPLE	08/10/2004	09:36:00	23.70	DEG C	5	<	MG/L	3.20	NTU	CLEAR, CALM, 80 DEGREES F
ROUTINE SAMPLE	08/20/2004	10:25:00	23.40	DEG C	nd		MG/L	nd	NTU	CLOUDY W/O RAIN, CALM, 70 DEGREES F
ROUTINE SAMPLE	09/23/2004	10:42:00	18.40	DEG C	5	<	MG/L	2.10	NTU	SUNNY, CLEAR
ROUTINE SAMPLE	10/21/2004	12:00:00	10.60	DEG C	5	<	MG/L	1.50	NTU	CLOUDY W/O RAIN, BREEZE, 50S
ROUTINE SAMPLE	11/18/2004	09:29:00	4.20	DEG C	5	<	MG/L	2.60	NTU	CLOUDY W/O RAIN, CALM, 50S

ROUTINE SAMPLE	12/08/2004	11:22:00	1.70	DEG C	5	<	MG/L	1.60	NTU	PARTLY CLOUDY & SUNNY W/O RAIN
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Legend

BOD	BIOCHEMICAL OXYGEN DEMAND
CHL	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
DO	DISSOLVED OXYGEN
DO SAT	DISSOLVED OXYGEN SATURATION
DELETED	LAB ACCIDENT
EC	ESCHERICHIA COLI
NITR	NITROGEN AMMONIA
TKN	NITROGEN KJELDAHL
nd	NO SAMPLE COLLECTED OR NO MEASUREMENT MADE
NO2NO3	NITROGEN NITRATE + NITRITE
P	PHOSPHORUS AS P
QUAL	QUALIFIER
COND	SPECIFIC CONDUCTANCE
TEMP	TEMPERATURE WATER
TSS	TOTAL SUSPENDED SOLIDS
TURB	TURBIDITY



## APPENDIX C –DATA NOT COMPLIANT WITH PARAMETER-SPECIFIC RELATIVE PERCENT DIFFERENCE

RESULTS INVALID - DAILY FIELD DUPLICATE RPD EXCEEDS CRITERIA IN APPROVED ARMP QAPP

Station ID	Sampling Date	Parameter
02-WNC	3/23/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
02-WNC	3/23/2004	PHOSPHORUS AS P
02-WNC	3/23/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-BER	3/23/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-BER	3/23/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-BER	3/23/2004	PHOSPHORUS AS P
05-SAG	3/23/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-SAG	3/23/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-SAG	3/23/2004	PHOSPHORUS AS P
09-EXT	3/23/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
09-EXT	3/23/2004	SOLIDS, TOTAL SUSPENDED (TSS)
09-EXT	3/23/2004	PHOSPHORUS AS P
05-BLM	3/24/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-BLM	3/24/2004	PHOSPHORUS AS P
05-BLM	3/24/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-LMP	3/24/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-LMP	3/24/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-LMP	3/24/2004	PHOSPHORUS AS P
05-OYS	3/24/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-OYS	3/24/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-OYS	3/24/2004	PHOSPHORUS AS P
05-SFR	3/24/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-SFR	3/24/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-SFR	3/24/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-SFR	3/24/2004	PHOSPHORUS AS P
05-SFR	3/24/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-SFR	3/24/2004	PHOSPHORUS AS P
07-CCH	3/24/2004	SOLIDS, TOTAL SUSPENDED (TSS)
07-CCH	3/24/2004	PHOSPHORUS AS P
07-CCH	3/24/2004	DISSOLVED OXYGEN
02-WNC	4/20/2004	PHOSPHORUS AS P
02-WNC	4/20/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-BER	4/20/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-BER	4/20/2004	PHOSPHORUS AS P
05-SAG	4/20/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-SAG	4/20/2004	PHOSPHORUS AS P
09-EXT	4/20/2004	SOLIDS, TOTAL SUSPENDED (TSS)
09-EXT	4/20/2004	PHOSPHORUS AS P
09-EXT	4/20/2004	SOLIDS, TOTAL SUSPENDED (TSS)
09-EXT	4/20/2004	PHOSPHORUS AS P
05-BLM	4/22/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-BLM	4/22/2004	PHOSPHORUS AS P
05-LMP	4/22/2004	PHOSPHORUS AS P

RESULTS INVALID - DAILY FIELD DUPLICATE RPD EXCEEDS CRITERIA IN APPROVED ARMP QAPP

Station ID	Sampling Date	Parameter
05-LMP	4/22/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-OYS	4/22/2004	PHOSPHORUS AS P
05-OYS	4/22/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-SFR	4/22/2004	PHOSPHORUS AS P
05-SFR	4/22/2004	SOLIDS, TOTAL SUSPENDED (TSS)
07-CCH	4/22/2004	PHOSPHORUS AS P
07-CCH	4/22/2004	SOLIDS, TOTAL SUSPENDED (TSS)
02-WNC	5/18/2004	NITROGEN, KJELDAHL
02-WNC	5/18/2004	NITROGEN, KJELDAHL
05-BER	5/18/2004	NITROGEN, KJELDAHL
05-SAG	5/18/2004	NITROGEN, KJELDAHL
09-EXT	5/18/2004	NITROGEN, KJELDAHL
05-BLM	5/19/2004	NITROGEN, KJELDAHL
05-LMP	5/19/2004	NITROGEN, KJELDAHL
05-OYS	5/19/2004	NITROGEN, KJELDAHL
05-SFR	5/19/2004	NITROGEN, KJELDAHL
07-CCH	5/19/2004	NITROGEN, KJELDAHL
02-WNC	6/15/2004	NITROGEN, KJELDAHL
05-BER	6/15/2004	NITROGEN, KJELDAHL
05-LMP	6/15/2004	NITROGEN, KJELDAHL
05-SAG	6/15/2004	NITROGEN, KJELDAHL
09-EXT	6/15/2004	NITROGEN, KJELDAHL
05-BLM	6/16/2004	NITROGEN, KJELDAHL
05-OYS	6/16/2004	NITROGEN, KJELDAHL
05-SFR	6/16/2004	NITROGEN, KJELDAHL
07-CCH	6/16/2004	NITROGEN, KJELDAHL
07-CCH	6/16/2004	NITROGEN, KJELDAHL
02-WNC	7/20/2004	NITROGEN, KJELDAHL
02-WNC	7/20/2004	ESCHERICHIA COLI
05-BER	7/20/2004	NITROGEN, KJELDAHL
05-BER	7/20/2004	ESCHERICHIA COLI
05-LMP	7/20/2004	NITROGEN, KJELDAHL
05-LMP	7/20/2004	ESCHERICHIA COLI
05-SAG	7/20/2004	ESCHERICHIA COLI
05-SAG	7/20/2004	NITROGEN, KJELDAHL
09-EXT	7/20/2004	ESCHERICHIA COLI
09-EXT	7/20/2004	NITROGEN, KJELDAHL
05-BLM	7/22/2004	NITROGEN, KJELDAHL
05-BLM	7/22/2004	ESCHERICHIA COLI
05-OYS	7/22/2004	NITROGEN, KJELDAHL
05-OYS	7/22/2004	ESCHERICHIA COLI
05-OYS	7/22/2004	ESCHERICHIA COLI
05-OYS	7/22/2004	NITROGEN, KJELDAHL
05-SFR	7/22/2004	NITROGEN, KJELDAHL
05-SFR	7/22/2004	ESCHERICHIA COLI
07-CCH	7/22/2004	ESCHERICHIA COLI

RESULTS INVALID - DAILY FIELD DUPLICATE RPD EXCEEDS CRITERIA IN APPROVED ARMP QAPP

Station ID	Sampling Date	Parameter
07-CCH	7/22/2004	NITROGEN, KJELDAHL
05-BLM	8/10/2004	DISSOLVED OXYGEN SATURATION
05-BLM	8/10/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-BLM	8/10/2004	DISSOLVED OXYGEN
05-OYS	8/10/2004	DISSOLVED OXYGEN SATURATION
05-OYS	8/10/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-OYS	8/10/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-OYS	8/10/2004	DISSOLVED OXYGEN
05-OYS	8/10/2004	DISSOLVED OXYGEN SATURATION
05-OYS	8/10/2004	DISSOLVED OXYGEN
05-SFR	8/10/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-SFR	8/10/2004	DISSOLVED OXYGEN
05-SFR	8/10/2004	DISSOLVED OXYGEN SATURATION
07-CCH	8/10/2004	DISSOLVED OXYGEN SATURATION
07-CCH	8/10/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
07-CCH	8/10/2004	DISSOLVED OXYGEN
02-WNC	8/11/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
02-WNC	8/11/2004	DISSOLVED OXYGEN
02-WNC	8/11/2004	DISSOLVED OXYGEN SATURATION
05-BER	8/11/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-BER	8/11/2004	DISSOLVED OXYGEN SATURATION
05-BER	8/11/2004	DISSOLVED OXYGEN
05-LMP	8/11/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-LMP	8/11/2004	DISSOLVED OXYGEN
05-LMP	8/11/2004	DISSOLVED OXYGEN SATURATION
05-SAG	8/11/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-SAG	8/11/2004	DISSOLVED OXYGEN
05-SAG	8/11/2004	DISSOLVED OXYGEN SATURATION
09-EXT	8/11/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
09-EXT	8/11/2004	DISSOLVED OXYGEN SATURATION
09-EXT	8/11/2004	DISSOLVED OXYGEN
02-WNC	10/20/2004	ESCHERICHIA COLI
05-BER	10/20/2004	ESCHERICHIA COLI
05-SAG	10/20/2004	ESCHERICHIA COLI
05-BLM	10/21/2004	ESCHERICHIA COLI
05-LMP	10/21/2004	ESCHERICHIA COLI
05-OYS	10/21/2004	ESCHERICHIA COLI
05-OYS	10/21/2004	ESCHERICHIA COLI
05-SFR	10/21/2004	ESCHERICHIA COLI
07-CCH	10/21/2004	ESCHERICHIA COLI
09-EXT	10/21/2004	ESCHERICHIA COLI
02-WNC	11/17/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
02-WNC	11/17/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-BER	11/17/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-SAG	11/17/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
09-EXT	11/17/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN

RESULTS INVALID - DAILY FIELD DUPLICATE RPD EXCEEDS CRITERIA IN APPROVED ARMP QAPP

Station ID	Sampling Date	Parameter
05-BLM	11/18/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-LMP	11/18/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-OYS	11/18/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-SFR	11/18/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
07-CCH	11/18/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
02-WNC	12/7/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-BER	12/7/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-BER	12/7/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-SAG	12/7/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-BLM	12/8/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-LMP	12/8/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-OYS	12/8/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-SFR	12/8/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
07-CCH	12/8/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
09-EXT	12/8/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN