Technical Memorandum

NASHUA RIVER WATERSHED 2008
DWM WATER QUALITY MONITORING DATA

January 2013

Massachusetts Department of Environmental Protection
Division of Watershed Management
DWM Control Number CN 324.2

COMMONWEALTH OF MASSACHUSETTS
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Introduction

The purpose of this technical memorandum is to publish water quality data collected in the Nashua River Watershed as part of the Massachusetts Department of Environmental Protection (MassDEP), Division of Watershed Management (DWM), programmatic monitoring (MassDEP 2005a). The Nashua River Watershed water quality surveys were conducted between the months of May and November in 2008. Water quality samples were analyzed for nutrients and other conventional pollutants, ambient toxicity, metals, bacteria (*Escherichia coli*), as well as dissolved oxygen and other field measurements. The aquatic macroinvertebrate and fish community data are published in separate technical memoranda.

Project Objectives

The 2008 surveys of the Nashua River Watersheds focused on obtaining information to meet the following objectives (MassDEP 2008a):

- provide biological, habitat, dissolved oxygen, temperature, chemical and ambient toxicity data for the purpose of assessing Aquatic Life and Aesthetics uses as required by Section 305(b) of the Clean Water Act and documenting biological, chemical, and physical changes over time (trend monitoring);
- provide biological, habitat, dissolved oxygen, temperature, chemical and ambient toxicity data to confirm Category 5 303(d) listings and findings of external organizations;
- provide quality-assured *E. coli* data for the purpose of assessing Primary and Secondary Contact Recreational uses and documenting changes in pathogen levels over time (trend monitoring);
- provide data for other informational needs of Massachusetts regulatory agencies such as NPDES permitting and TMDL development.

Additional information regarding project objectives may be found in *Sampling Analysis Plan Surface Water Monitoring Nashua River Watershed* (MassDEP 2008b) and *SAMPLING & ANALYSIS PLAN Aquatic Toxicity Monitoring Nashua River Watershed 2008* (MassDEP 2008c).

Sampling Plan

Water Quality

Water quality surveys were conducted a total of six times (weeks of May 12, June 9, July 14, August 11, September 1 [bacteria only] and October 16). Grab samples for Escherichia coli were collected at a total of 55 stations. Grab samples for total phosphorus, total nitrogen, and ammonia-nitrogen were collected at 33 stations while color and turbidity samples were collected at 23 stations. On the 1st and 3rd surveys, grab samples for hardness were collected at a total of four stations. The MassDEP's Wall Experiment Station (WES) conducted the analysis of all water quality samples for nutrients (total phosphorus, total nitrogen, and ammonia-nitrogen) and *E. coli*. The hardness, color and turbidity samples were analyzed at the DWM laboratory in Worcester. Continuous temperature and dissolved oxygen monitoring with unattended metered probes were carried out at 25 sites. These unattended probes were deployed during the months of June, July, August, and September on Friday of the weeks preceding the water sampling surveys for that month and retrieved five days later. Finally, long-term temperature-only data loggers were deployed at 14 sites (MassDEP 2008a).

Ambient Toxicity/Metals

Ambient toxicity, metals, and ammonia-nitrogen grab samples were collected once in October and November at a total of four sites on the North Nashua River (Segments MA81-01 and MA81-02). Grab samples were collected for metals at three sites on Cold Spring Brook in support of a BWP project. The EPA toxicity laboratory in Chelmsford processed the ambient toxicity samples and the metals samples were processed at the MassDEP's Wall Experiment Station (WES) (MassDEP 2008a). The toxicity testing results are provided in Appendix 2.

Nashua River Nutrient TMDL Monitoring

Impoundment water quality surveys were conducted twice (July 16 and September 3). Grab samples for total phosphorus, total nitrogen, ammonia-nitrogen, nitrate/nitrite, total reactive phosphorus, and chlorophyll a were collected at four sites (GROTON, ICEDAM, ICEHOUSE and PEPPOND). Continuous dissolved oxygen monitoring with unattended probes was carried out at the same four sites. These unattended probes were deployed during the months of July and September on Friday of the weeks preceding the water sampling surveys for that month and retrieved five days later. River water quality surveys were conducted five times (weeks of May 12, June 9, July 14, August 11, and October 16). Grab samples for dissolved reactive phosphorus and ammonia-nitrogen were collected at eight stations (NAS02, NM21, NM25, NN09, NN10A, NNR01, NNR04 and NS17) (MassDEP 2008a).

Table 1 and Figure 1 provide details and locations of the 2008 sampling sites. Additional information regarding the sampling design may be found in *Sampling Analysis Plan Surface Water Monitoring Nashua River Watershed 2008* (MassDEP 2008b).

Field and Analytical Methods

Procedures used for water quality sampling and sample handling are described in CN 1.21 - Sample Collection Techniques for DWM Surface Water Quality Monitoring (MassDEP 2004) and CN 101.1 - Ambient Trace Metal Sampling (MassDEP 2007b). The Wall Experiment Station (WES) supplied all sample bottles and field preservatives, which were prepared according to the WES Laboratory Quality Assurance Plan and Standard Operating Procedures (MassDEP 2001). Procedures used for multiprobe calibration and deployment are described in CN 4.21 - Water Quality Multiprobe Data Collection (MassDEP 2005b) and CN 4.41 - Multiprobe Sonde Deployments for Continuous Unattended Water Quality Data Collection (MassDEP 2007a).

Concurrent with the collection of water quality samples, site characteristics and sampling conditions were recorded on DWM field sheets. Riparian vegetation, observed uses (e.g. swimming, boating, fishing), potential pollution sources, the presence/absence of objectionable deposits (trash, debris and scum), the extent of periphyton/algae/aquatic plant growth within the sampling reach, and sampling conditions were all noted at each station.

Quality Assurance (QA) and Quality Control (QC)

Quality assurance and quality control procedures used in collecting samples and measurements were consistent with the prevailing DWM protocols that are described in CN 1.21 - Sample Collection Techniques for DWM Surface Water Quality Monitoring (MassDEP 2004), CN 101.1 - Ambient Trace

Metal Sampling (MassDEP 2007b), CN 4.21 - Water Quality Multiprobe Data Collection (MassDEP 2005b) and CN 4.41 - Multiprobe Sonde Deployments for Continuous Unattended Water Quality Data Collection (MassDEP 2007a).

The DWM quality assurance and database management staff reviewed laboratory data reports and all multiprobe data. The data were validated and finalized per data validation procedures outlined in CN 56.15 - DWM Water Quality Data Validation Process (Summary) (MassDEP 2012a). All water quality sample data were validated by reviewing QC sample results, analytical holding time compliance, QC sample frequency and related ancillary data/documentation (at a minimum). A complete summary of the data review process for all 2008 DWM data is provided in CN 361.0 – Water Quality Data Validation Report for Year 2008 Project Data (MassDEP 2012b). Appendix 1 of this technical memorandum contains definitions for all data qualifiers.

Table 1. MassDEP DWM 2008 Nashua River Watershed sampling station descriptions and sampling parameters and frequency (TP = total phosphorus, TN = total nitrogen, DRP = dissolved reactive phosphorus, TRP = total reactive phosphorus).

Station ID	Unique ID	Water Body	Station Description	Latitude	Longitude	*E. coli* Bacteria	Nitrate/Nitrite-N	Ammonia-N	TP & TN	DRP	TRP	Chlorophyll a	True Color & Turbidity	Metals	Ambient Toxicity	Temperature Probe	Attended Multiprobe	Unattended Multiprobe
BOW01	W1830	Bowers Brook	[Lancaster County Road, Harvard]	42.53009	-71.57792	6		5	5				5				6	3
CAT01	W1812	Catacoonamug Brook	[approximately 190 feet upstream of Main Street, Shirley]	42.54421	-71.65737	6		5	5				5				6	3
CAT02	W1843	Catacoonamug Brook	[Reservoir Road, Lunenburg]	42.56681	-71.69865	6												
COB01	W1841	Cobb Brook	[Ball Hill Road, Princeton]	42.41758	-71.88987	6												
CSB01	W1842	Cold Spring Brook	[Barnum Road, Ayer]	42.55183	-71.57428	6								3				
CSB03	W2064	Cold Spring Brook	[East of Barnum Road, approximately 550 feet upstream of confluence of Bowers Brook, Harvard]	42.54169	-71.58687									3				
CSB04	W2065	Cold Spring Brook	[approximately 750 feet downstream of railroad crossing south of Barnum Road, Harvard]	42.53723	-71.59218									3				
FAH01	W1836	Falulah Brook	[Crawford Street, Fitchburg]	42.56316	-71.76155	6												
FAH02	W1837	Falulah Brook	[Fisher Road, Fitchburg]	42.60220	-71.79880	6												
FAL01	W1825	Fall Brook	[Lakeview Drive, Leominster]	42.49159	-71.76311	6												
FAL02	W1827	Fall Brook	[approximately 450 feet upstream of Route 12, Leominster]	42.50714	-71.75289											1		

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FAL03	W1826	Fall Brook	[Route 117, Leominster]	42.51114	-71.73841	6												
FCH01	W2066	French Brook	[approximately 500 feet upstream from the inlet of Wachusett Reservoir, west of Main Street Circle, Boylston]	42.36670	-71.72893	4		4	4									
FLG03	W1807	Flag Brook	[approximately 150 feet upstream from railroad bridge crossing east of Route 31, Fitchburg]	42.55865	-71.84384	6												
GAT25	W1817	Gates Brook	[approximately 600 feet from confluence with Wachusett Reservoir (Gates Cove), West Boylston]	42.36415	-71.77581	4		4	4							1		
GOV01	W1839	Governor Brook	[Sterling Road, Holden]	42.40559	-71.84610	6												
GROTON	W0497	Nashua River	[Groton School boat house floating wharf, east of Route 111, Groton]	42.59474	-71.59983		2	2	2		2	2					4	2
GUL01	W1844	Gulf Brook	[Lawrence Street, Pepperell]	42.69616	-71.63450	6												
ICEDAM	W1001	Nashua River	[Ayer Road/West Main Street, Shirley/Harvard]	42.55198	-71.62098		2	2	2		2	1					2	1
ICEHOUSE	W2070	Nashua River	[downstream of Hospital Road (approximately 500 feet from confluence with Trout Brook), Shirley/Harvard]	42.54691	-71.62936		1	1	1		1	1					2	1
JAM01	W1000	James Brook	[Route 111, Ayer]	42.57947	-71.58862	6		5	5				5				6	3
LOC01	W1834	Locke Brook	[West Meadow Road, Townsend]	42.67855	-71.75832	5												

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MAG01	W1819	Malagasco Brook	[West Temple Street, Boylston]	42.34126	-71.74778	6		5	5				5				6	3
MAL01	W1818	Malden Brook	[Thomas Street, West Boylston]	42.38125	-71.79549	4		4	4							1		
MON01	W1810	Monoosnuc Brook	[Granite Street, Leominster]	42.53489	-71.77574	6												
MONOO	W0994	Monoosnuc Brook	[Commercial Road, Leominster]	42.52496	-71.73777	8												
MPB02	W1824	Mulpus Brook	[Route 225, Lunenburg]	42.59616	-71.67021	6										1		
MPB03	W0998	Mulpus Brook	[trailer park road directly across from Kittredge Road, Shirley]	42.57506	-71.62036	6		5	5				5			1	8	4
MUD01	W2067	Muddy Brook	[Route 140, West Boylston]	42.34756	-71.76541	4		4	4									
MUL01	W1823	Mulpus Brook	[Holman Street, Lunenburg]	42.61730	-71.73428	6		5	5				5			1	6	3
MUS01	W1840	Muschopauge Brook	[Route 68, Rutland]	42.39746	-71.91626	6												
NAS02	W1806	Nashua River	[Route 111, Hollis, New Hampshire]	42.71283	-71.54871	6	5	5	5	5			5				8	4
NIS02	W1815	Nissitissit River	[West Hollis Road, Hollis, New Hampshire]	42.70524	-71.62077	6										1		
NM21	W0484	Nashua River	[near tank bridge at Still River Depot Road canoe launch, Harvard.]	42.49602	-71.62644	6	5	5	5	5			5				8	4

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Station ID	Unique ID	Water Body	Station Description	Latitude	Longitude	*E. coli* Bacteria	Nitrate/Nitrite-N	Ammonia-N	TP & TN	DRP	TRP	Chlorophyll a	True Color & Turbidity	Metals	Ambient Toxicity	Temperature Probe	Attended Multiprobe	Unattended Multiprobe
NM25	W0488	Nashua River	[Route 2A, Shirley/Ayer]	42.57812	-71.60977	6	5	5	5	5			5				6	3
NM27	W0496	Nashua River	[Route 111/119, Pepperell/Groton]	42.62648	-71.59315		1	1	1		1						8	4
NN08	W2069	North Nashua River	[approximately 400 feet upstream of Hamilton Street, Leominster]	42.54338	-71.74644			6						8	2		6	
NN09	W0480	North Nashua River	[Airport Road (Falulah Road on USGS quads), Fitchburg]	42.56310	-71.76876	6	5	11	5	5			5	8	2		14	4
NN10	W2068	North Nashua River	[approximately 200 feet dowstream of Circle Street, Fitchburg]	42.58506	-71.80672			6						8	2		6	
NN10A	W0993	North Nashua River	[approximately 600 feet downstream of Route 2, Leominster]	42.53259	-71.74029	6	5	5	5	5			5				8	4
NN12	W0481	North Nashua River	[approximately 200 feet downstream of Route 190 bridge, Lancaster]	42.49517	-71.72192												8	4
NNR01	W1780	North Nashua River	[approximately 340 feet downstream of Depot Street, Fitchburg]	42.57575	-71.83356	6	5	11	5	5			5	6	2		6	
NNR04	W1781	North Nashua River	[Route 70, Lancaster]	42.45138	-71.67388	6	5	5	5	5			5					
NON00	W1813	Nonacoicus Brook	[MacPherson Road, Ayer]	42.56211	-71.61062	6		5	5				5				6	3
NS17	W0482	Nashua River	[east of Route 110, Clinton (upstream of Clinton WWTP outfall)]	42.42997	-71.67930	6	5	5	5	5			5				8	4
NS19	W0483	Nashua River	[Bolton Road, Lancaster (upstream of sporadic input on eastern shore just upstream of road)]	42.44443	-71.67186												8	4

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NT34	W0992	Whitman River	[Route 2A, Westminster]	42.55990	-71.86679	6												
NT60A	W0487	Squannacook River	[west of Townsend Road (directly across from Candice Lane), Groton]	42.62094	-71.64381											1	6	3
NT68	W0486	Nissitissit River	[Mill Street, Pepperell]	42.67173	-71.57703	8		5	5				5			1	6	3
PEB01	W1846	Pearl Hill Brook	[Pleasant Street, Lunenburg]	42.58510	-71.77085	6												
PEPPOND	W0495	Nashua River Pepperell Pond	[approximately 180 yards upstream/south of Main Street, Pepperell. (approximately 45 yards downstream/north of boat launch)]	42.66415	-71.57701		4	4	4		4	2					4	2
PH00	W0991	Unnamed Tributary	[unnamed tributary to North Nashua River, approximately 1000 feet downstream from Westminster Hill Road, Fitchburg]	42.57579	-71.83943	6												
PH01	W1809	Phillips Brook	[the Route 12 crossing nearest to and north of the Fred Smith Road/Bean Porridge Hill Road intersection, Westminster]	42.60819	-71.87068	6		5	5				5			1	6	3
PHB01	W1835	Pearl Hill Brook	[south off end of Pearl Brook Road, Townsend]	42.67140	-71.75689	6												
QXR01	W1821	Quinapoxet River	[north off River Road, approximately 2200 feet east of Route 190, West Boylston]	42.38548	-71.80974	6		5	5				5				6	3
QXR02	W1822	Quinapoxet River	[River Street crossing nearest Route 31, Holden]	42.36752	-71.84183											1		

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SQ08	W1283	Squannacook River	[Elm Street (Route 13), Townsend]	42.66345	-71.70915	6		5	5				5			1	6	3
SQC01	W1814	Squannacook River	[approximately 1 mile downstream from Route 225 (off Shirley Rod & Gun Club private road), Shirley]	42.59091	-71.62397	6												
STL01	W0995	Still River	[Route 117, Bolton]	42.45586	-71.64556	6		5	5				5			1	6	3
STL02	W1811	Still River	[west off Route 110 at footbridge at Bolton Flats Wildlife Management Area entrance (southwest of Autumn Lane), Bolton]	42.46917	-71.63243	6												
STW01	W1820	Stillwater River	[Muddy Pond Road, Sterling]	42.41077	-71.79112	4		4	4							1		
SUC01	W1816	Sucker Brook	[Brookline Street, Pepperell]	42.69634	-71.61145	6		5	5				5				8	4
SWA01	W1838	South Wachusett Brook	[Ball Hill Road, Princeton]	42.42578	-71.90613	6												
TFB01	W1833	Trapfall Brook	[Turnpike Road, Ashby]	42.67265	-71.78161	6												
UNK01	W1829	Unkety Brook	[River Street, Dunstable]	42.68957	-71.54812	6												
WEK01	W1831	Wekepeke Brook	[Flanagan Hill Road, Sterling]	42.46809	-71.73313	6												
WHR01	W1808	Whitman River	[Whitmanville Road, Westminster]	42.58212	-71.90236	6		5	5				5				6	3

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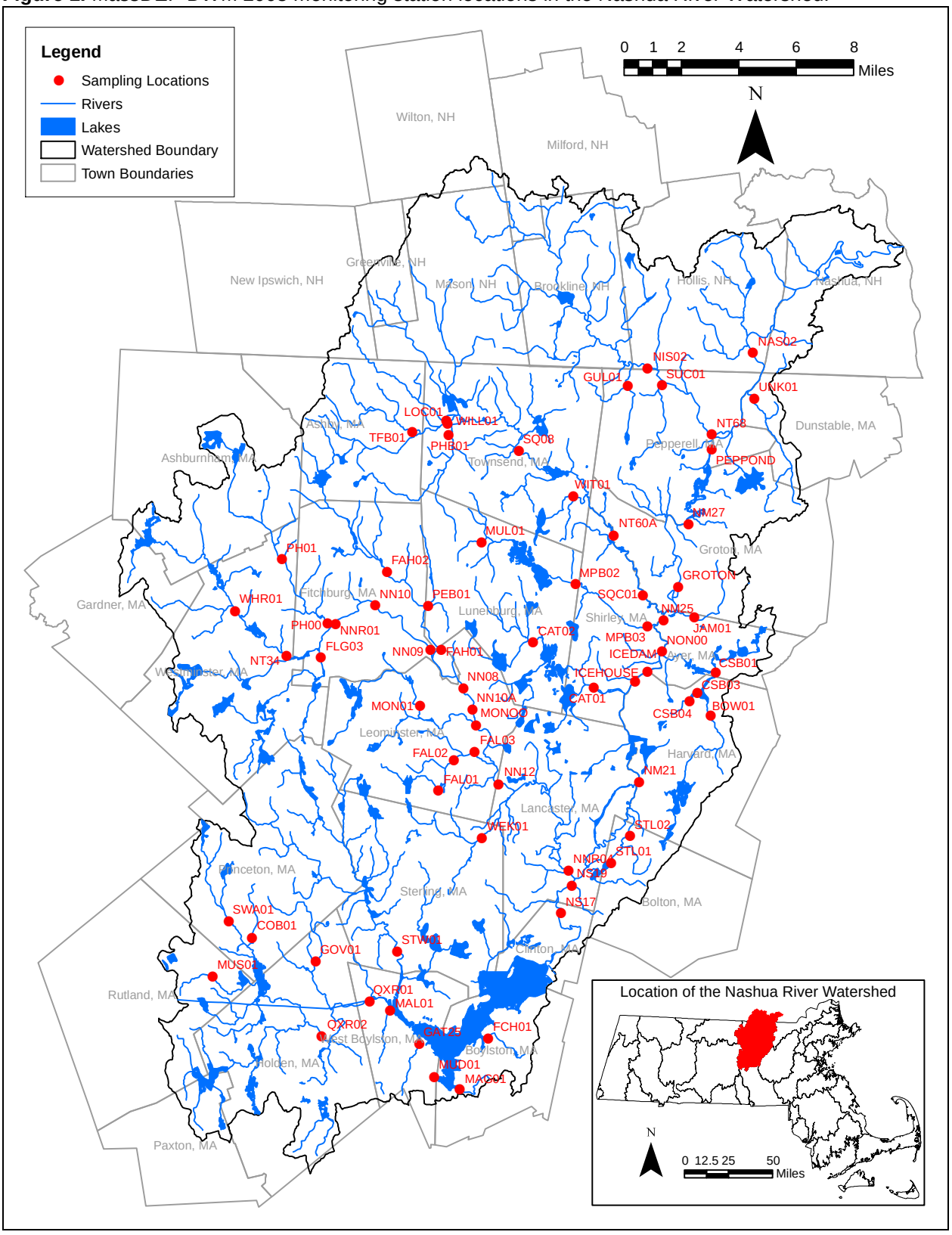
WILL01	W1832	Willard Brook	[West Meadow Road, Townsend]	42.67719	-71.75727	6		5	5				5				8	4
WIT01	W1845	Witch Brook	[Warren Road, Townsend]	42.64067	-71.67147	6												

Figure 1. MassDEP DWM 2008 monitoring station locations in the Nashua River Watershed.



Survey Conditions

Precipitation and stream discharge data were analyzed to estimate hydrological conditions during the 2008 water quality surveys in the Nashua River Watershed. Precipitation data collected during the survey period in 2008 were downloaded from the National Oceanic and Atmospheric Administration (NOAA), National Climatic Data Center (NCDC) for the Ashburnham, MA (GHCND:USC00190190), Worcester, MA, Regional Airport (GHCND:USW00094746) and Fitchburg, MA, Municipal Airport (GHCND:USW00004780) weather stations (NOAA 2013). The precipitation totals on the water quality survey dates and the five days prior to the survey dates were extracted from the records. In addition, the monthly precipitation totals for 2008 and the twenty year monthly averages for the three weather stations were downloaded to determine if precipitation amounts in 2008 were above or below normal (Table 2).

Table 2. Total monthly precipitation in 2008 at weather stations in the Nashua River Watershed. The twenty year monthly average precipitation totals for those stations are in parentheses (NOAA 2013).

Month	Ashburnham	Worcester Regional Airport	Fitchburg Municipal Airport
January	2.76 (3.68)	2.45 (3.49)	2.38 (3.35)
February	10.06 (3.55)	9.69 (3.23)	8.85 (3.00)
March	5.67 (4.54)	5.62 (4.21)	5.30 (4.38)
April	4.13 (4.49)	4.24 (4.11)	1.86 (4.12)
May	2.09 (4.32)	2.45 (4.19)	1.99 (4.06)
June	4.15 (4.36)	5.56 (4.19)	3.37 (4.25)
July	7.80 (4.13)	7.96 (4.23)	5.74 (4.08)
August	3.90 (3.96)	3.53 (3.71)	4.68 (3.80)
September	7.81 (3.86)	9.22 (3.93)	8.07 (3.85)
October	2.37 (4.66)	2.62 (4.68)	1.80 (4.28)
November	3.96 (4.20)	4.25 (4.28)	3.68 (4.25)
December	7.85 (4.19)	5.64 (3.82)	4.11 (3.72)

Stream discharge data from five real-time United States Geological Survey (USGS) stream gage stations (Table 3) were downloaded from the USGS (USGS 2013a). In addition, the 7Q10 for each gage station was downloaded from the USGS web site and included in Table 3 (USGS 2013b). The entire period of record for each station was downloaded and the average daily discharge values on the water quality survey dates and the five days prior to the survey dates were extracted from these records. The percent of time that the average daily discharge on the extracted dates were equaled or exceeded during the entire period of record for the gage was calculated to put the discharge value into historical perspective. The precipitation and discharge data are summarized and presented in Table 4.

Table 3. USGS gage stations used to estimate the hydrological conditions in the Nashua River Watershed during the 2008 DWM water quality surveys and the estimated 7Q10 flows for each gage. (USGS 2013a; 2013b).

Station Name	Location	Period of Record	7Q10 (cfs)	Remarks
01094400 North Nashua River at Fitchburg, MA	42° 34' 34" -71° 47' 19"	1972 to present	- -	Flow regulated by mills and reservoirs upstream. Flow affected by diversions for municipal use.
01094500 North Nashua River near Leominster, MA	42° 29' 42" -71° 43' 19"	1935 to present	35.3	Flow regulated by mills, reservoirs, and waste-water treatment plants upstream. Flow affected by diversions from 2.1 mi^2 above outlet of Ashby Reservoir for municipal use.
01095220 Stillwater River near Sterling, MA	42° 24' 39" -71° 47' 30"	1994 to present	2.7	Stage-discharge relation affected by seasonal backwater from aquatic vegetation and occasional backwater from beaver dams. Adjustments for backwater are included in the computed record.
01095375 Quinapoxet River at Canada Mills Near Holden, MA	42° 22' 22" -71° 49' 43"	1996 to present	- -	Flow occasionally regulated by Quinapoxet Reservoir.
01096000 Squannacook River near West Groton, MA	42° 38' 03" -71° 39' 30"	1949 to present	6.5	Occasional regulation at low flow by mill upstream; regulation greater prior to 1961. Entire flow from 2.16 mi^2 upstream from outlet of Ashby Reservoir diverted for municipal supply of Fitchburg except for occasional periods of spill.

Station Observations

Station observations were recorded on field sheets for each survey by a DWM investigator. Station observations are summarized below in Table 5 and Table 6 for each sampling event (MassDEP 2008d).

Water Quality Data

All MassDEP DWM water quality data are managed and maintained in the Water Quality Data Access Database (WQD). Tables 7 – 12 below provide the 2008 Nashua River Watershed water quality data. The procedures used to accept, accept with qualification, or censor data are based on the DWM Standard Operating Procedures (SOP) for data validation and usability (MassDEP 2012a), and are in addition to separate quality assurance activities and laboratory validation steps undertaken by the WES. Definitions for the data qualifiers are provided in Appendix 1.

Table 4. The precipitation totals (inches) and daily average discharge (cubic feet per second) for five days prior to and each DWM 2008 Nashua River Watershed survey date (USGS 2013a) (NOAA 2013).

Note: The percent of time that the daily average discharge was equaled or exceeded over the entire period of record at each stream gage are also provided (percent exceeded). Shaded dates indicate the deployment of multiprobes and large bold dates indicate collection of water samples.

	Precipitation			**Discharge (Percent Exceeded)**				
Date	**Ashburnham**	**Worcester Regional Airport**	**Fitchburg Municipal Airport**	**01094500 North Nashua River near Leominster, MA**	**01094400 North Nashua River at Fitchburg, MA**	**01095220 Stillwater River near Sterling, MA**	**01095375 Quinapoxet River at Canada Mills near Holden, MA**	**01096000 Squannacook River near West Groton, MA**
05/08/08	0.09	0.06	0.04	219 (28.6)	131 (29.9)	52 (35.9)	98 (21.8)	146 (24.1)
05/09/08	0.00	0.16	0.08	239 (25.6)	181 (19.4)	49 (37.8)	90 (24.1)	138 (26.0)
05/10/08	0.09	0.00	0.00	249 (24.3)	157 (23.8)	48 (38.5)	85 (25.8)	128 (28.6)
05/11/08	0.00	0.00	0.00	145 (45.0)	74 (53.7)	44 (41.1)	78 (28.3)	116 (31.9)
05/12/08	0.00	0.00	0.00	132 (49.0)	65 (58.4)	43 (42.1)	69 (32.3)	107 (34.9)
05/13/08	0.00	0.00	0.00	127 (50.6)	73 (54.2)	40 (44.4)	60 (36.9)	101 (36.9)
05/14/08	0.00	0.00	0.00	144 (45.2)	93 (43.8)	37 (46.8)	56 (38.9)	95 (39.4)
05/15/08	0.00	0.00	0.00	139 (47.0)	90 (45.2)	35 (48.5)	53 (40.9)	88 (42.3)
05/17/08	0.72	0.34	0.23	265 (22.3)	152 (24.8)	62 (30.2)	77 (28.9)	112 (33.2)
05/18/08	0.02	0.01	0.04	200 (32.0)	117 (34.2)	60 (31.4)	72 (31.0)	122 (30.3)
05/19/08	0.05	0.00	0.00	168 (38.9)	104 (38.9)	49 (37.8)	65 (34.2)	107 (34.9)
05/20/08	0.00	0.00	0.00	144 (45.2)	91 (44.7)	42 (42.8)	60 (36.9)	91 (40.9)
05/21/08	0.00	0.13	0.11	135 (48.2)	86 (47.2)	37 (46.8)	55 (39.7)	82 (44.9)
05/22/08	0.02	0.00	0.00	127 (50.6)	77 (51.9)	36 (47.7)	55 (39.7)	77 (47.0)
06/01/08	0.10	0.00	0.00	74 (72.4)	33 (80.9)	19 (65.4)	37 (50.8)	44 (63.8)
06/02/08	0.00	0.00	0.00	66 (77.0)	27 (85.4)	18 (66.6)	33 (54.1)	42 (64.9)
06/03/08	0.00	0.00	0.00	63 (79.2)	28 (84.6)	16 (69.1)	30 (56.6)	39 (66.7)
06/04/08	0.04	0.51	0.36	80 (69.6)	43 (72.9)	16 (69.1)	33 (54.1)	35 (69.3)
06/05/08	0.25	0.01	0.01	95 (62.7)	61 (60.5)	17 (67.9)	34 (53.2)	37 (68.0)
06/06/08	0.15	0.30	0.16	102 (59.8)	66 (57.9)	25 (58.6)	40 (48.8)	43 (64.3)
06/07/08	0.08	0.09	0.08	97 (61.8)	56 (63.9)	25 (58.6)	37 (50.8)	57 (56.6)
06/08/08	0.14	0.00	0.00	75 (72.0)	34 (80.0)	25 (58.6)	33 (54.1)	53 (58.7)

Table 4. The precipitation totals (inches) and daily average discharge (cubic feet per second) for five days prior to and each DWM 2008 Nashua River Watershed survey date (USGS 2013a) (NOAA 2013).

Note: The percent of time that the daily average discharge was equaled or exceeded over the entire period of record at each stream gage are also provided (percent exceeded). Shaded dates indicate the deployment of multiprobes and large bold dates indicate collection of water samples.

	Precipitation			Discharge (Percent Exceeded)				
Date	**Ashburnham**	**Worcester Regional Airport**	**Fitchburg Municipal Airport**	**01094500 North Nashua River near Leominster, MA**	**01094400 North Nashua River at Fitchburg, MA**	**01095220 Stillwater River near Sterling, MA**	**01095375 Quinapoxet River at Canada Mills near Holden, MA**	**01096000 Squannacook River near West Groton, MA**
06/09/08	0.00	0.00	0.00	66 (77.0)	27 (85.4)	20 (64.2)	30 (56.6)	45 (63.3)
06/10/08	0.00	0.32	0.14	59 (82.0)	22 (89.4)	17 (67.9)	30 (56.6)	39 (66.7)
06/11/08	0.42	0.00	0.00	71 (74.1)	37 (77.5)	16 (69.1)	28 (58.2)	35 (69.3)
06/12/08	0.00	0.00	0.00	61 (80.5)	22 (89.4)	13 (73.0)	24 (61.3)	33 (70.7)
06/14/08	0.00	0.00	0.01	54 (86.0)	18 (92.3)	11 (75.9)	20 (66.1)	26 (77.1)
06/15/08	0.13	0.13	0.74	108 (57.6)	36 (78.3)	11 (75.9)	19 (67.1)	28 (75.2)
06/16/08	0.05	0.49	0.43	77 (71.0)	35 (79.1)	12 (74.3)	21 (65.0)	29 (74.2)
06/17/08	0.75	0.16	0.08	117 (54.3)	52 (66.6)	16 (69.1)	26 (59.6)	40 (66.1)
06/18/08	0.00	0.06	0.00	74 (72.4)	31 (82.4)	14 (71.6)	21 (65.0)	47 (62.1)
06/19/08	0.00	0.00	0.00	66 (77.0)	29 (83.9)	12 (74.3)	20 (66.1)	37 (68.0)
06/20/08	0.00	0.14	0.00	64 (78.5)	29 (83.9)	11 (75.9)	18 (68.4)	30 (73.3)
06/21/08	0.05	0.00	0.00	70 (74.7)	39 (75.9)	10 (76.8)	17 (69.6)	27 (76.2)
06/22/08	0.00	0.01	0.00	71 (74.1)	40 (75.1)	9.9 (77.0)	17 (69.6)	25 (78.0)
06/23/08	1.03	2.80	0.46	91 (64.3)	62 (60.0)	16 (69.1)	27 (58.9)	31 (72.4)
07/06/08	0.00	0.00	0.00	85 (67.2)	43 (72.9)	14 (71.6)	18 (68.4)	60 (55.0)
07/07/08	0.00	0.00	0.00	75 (72.0)	35 (79.1)	12 (74.3)	16 (71.3)	57 (56.6)
07/08/08	0.00	0.00	0.00	67 (76.4)	28 (84.6)	11 (75.9)	14 (74.6)	41 (65.5)
07/09/08	0.00	0.72	0.35	62 (79.9)	27 (85.4)	8.5 (79.7)	12 (78.4)	34 (69.9)
07/10/08	0.64	0.00	0.00	82 (68.6)	41 (74.3)	6.9 (83.2)	11 (80.1)	30 (73.3)
07/11/08	0.00	0.00	0.00	62 (79.9)	25 (86.8)	6.1 (84.9)	8.9 (83.9)	27 (76.2)
07/12/08	0.00	0.00	0.00	54 (86.0)	18 (92.3)	5.3 (87.0)	7.9 (86.3)	25 (78.0)
07/13/08	0.00	0.00	0.00	51 (88.2)	21 (90.2)	4.4 (89.0)	7.2 (87.5)	22 (81.3)

Table 4. The precipitation totals (inches) and daily average discharge (cubic feet per second) for five days prior to and each DWM 2008 Nashua River Watershed survey date (USGS 2013a) (NOAA 2013).

Note: The percent of time that the daily average discharge was equaled or exceeded over the entire period of record at each stream gage are also provided (percent exceeded). Shaded dates indicate the deployment of multiprobes and large bold dates indicate collection of water samples.

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07/14/08	0.00	0.00	0.02	74 (72.4)	49 (68.6)	4.0 (90.0)	6.9 (88.2)	20 (83.7)
07/15/08	0.07	0.00	0.00	63 (79.2)	30 (83.0)	3.7 (90.6)	6.7 (88.7)	20 (83.7)
07/16/08	0.00	0.00	0.00	53 (86.7)	15 (94.3)	3.6 (90.8)	6.1 (90.0)	17 (87.7)
07/17/08	0.00	0.00	0.00	45 (92.8)	11 (97.1)	3.4 (91.3)	5.6 (91.1)	16 (89.2)
07/19/08	0.09	0.26	0.00	41 (95.3)	9.3 (97.8)	3.6 (90.8)	6.5 (89.2)	15 (90.6)
07/20/08	0.00	0.36	0.46	44 (93.6)	12 (96.5)	5.1 (87.5)	7.9 (86.3)	17 (87.7)
07/21/08	0.74	0.41	0.15	90 (64.9)	38 (76.7)	10 (76.8)	13 (76.5)	39 (66.7)
07/22/08	0.24	0.95	0.41	67 (76.4)	28 (84.6)	9.3 (78.2)	12 (78.4)	58 (56.1)
07/23/08	0.63	1.11	0.91	121 (52.8)	48 (69.2)	20 (64.2)	26 (59.6)	79 (46.1)
07/24/08	1.65	1.06	1.11	659 (4.3)	384 (4.8)	43 (42.1)	62 (35.7)	183 (17.8)
08/03/08	0.06	0.20	0.10	87 (66.3)	47 (69.9)	20 (64.2)	23 (62.3)	58 (56.1)
08/04/08	0.01	0.07	0.01	82 (68.6)	41 (74.3)	18 (66.6)	19 (67.1)	61 (54.4)
08/05/08	0.00	0.08	0.02	72 (73.5)	33 (80.9)	19 (65.4)	20 (66.1)	54 (58.2)
08/06/08	0.22	0.56	0.64	132 (49.0)	78 (51.4)	27 (56.1)	32 (54.8)	66 (51.9)
08/07/08	0.82	0.64	0.47	193 (33.3)	131 (29.9)	32 (51.4)	35 (52.3)	129 (28.3)
08/08/08	0.45	0.00	0.02	307 (18.0)	225 (13.5)	33 (50.3)	42 (47.5)	138 (26.0)
08/09/08	0.00	0.00	0.01	202 (31.5)	143 (26.8)	25 (58.6)	29 (57.4)	150 (23.4)
08/10/08	0.00	0.16	1.84	353 (14.3)	205 (15.6)	28 (55.2)	31 (55.7)	108 (34.6)
08/11/08	0.97	0.11	0.07	583 (5.6)	344 (6.1)	32 (51.4)	37 (50.8)	190 (16.9)
08/12/08	0.45	0.13	0.37	396 (11.8)	248 (11.3)	28 (55.2)	30 (56.6)	223 (13.0)
08/13/08	0.26	0.00	0.07	315 (17.3)	181 (19.4)	25 (58.6)	27 (58.9)	184 (17.7)
08/14/08	0.00	0.10	0.29	239 (25.6)	138 (28.1)	29 (54.3)	34 (53.2)	132 (27.5)

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Note: The percent of time that the daily average discharge was equaled or exceeded over the entire period of record at each stream gage are also provided (percent exceeded). Shaded dates indicate the deployment of multiprobes and large bold dates indicate collection of water samples.

	Precipitation			Discharge (Percent Exceeded)				
Date	**Ashburnham**	**Worcester Regional Airport**	**Fitchburg Municipal Airport**	**01094500 North Nashua River near Leominster, MA**	**01094400 North Nashua River at Fitchburg, MA**	**01095220 Stillwater River near Sterling, MA**	**01095375 Quinapoxet River at Canada Mills near Holden, MA**	**01096000 Squannacook River near West Groton, MA**
08/15/08	0.01	0.68	0.20	193 (33.3)	116 (34.5)	28 (55.2)	39 (49.5)	101 (36.9)
08/16/08	0.29	0.00	0.00	169 (38.7)	107 (37.7)	25 (58.6)	38 (50.2)	92 (40.7)
08/17/08	0.13	0.00	0.00	142 (45.9)	87 (46.8)	22 (61.7)	29 (57.4)	90 (41.4)
08/18/08	0.00	0.00	0.29	118 (54.0)	69 (56.4)	19 (65.4)	23 (62.3)	76 (47.5)
08/19/08	0.17	0.05	0.05	114 (55.4)	67 (57.4)	15 (70.3)	20 (66.1)	63 (53.4)
08/20/08	0.02	0.00	0.00	102 (59.8)	59 (61.8)	12 (74.3)	19 (67.1)	55 (57.7)
08/21/08	0.00	0.00	0.00	90 (64.9)	47 (69.9)	9.8 (77.2)	17 (69.6)	48 (61.5)
08/24/08	0.00	0.00	0.00	70 (74.7)	29 (83.9)	6.9 (83.2)	11 (80.1)	35 (69.3)
08/25/08	0.00	0.00	0.00	69 (75.2)	29 (83.9)	6.1 (84.9)	11 (80.1)	31 (72.4)
08/26/08	0.00	0.00	0.00	63 (79.2)	29 (83.9)	5.6 (86.2)	10 (81.2)	28 (75.2)
08/27/08	0.00	0.00	0.00	60 (81.4)	25 (86.8)	5.2 (87.2)	9.1 (83.3)	25 (78.0)
08/28/08	0.00	0.00	0.00	57 (83.6)	23 (88.5)	4.9 (87.9)	8.9 (83.9)	23 (80.2)
08/29/08	0.00	0.00	0.05	54 (86.0)	21 (90.2)	4.8 (88.1)	8.7 (84.3)	22 (81.3)
08/30/08	0.02	0.02	0.06	55 (85.1)	23 (88.5)	4.7 (88.3)	9.7 (81.8)	21 (82.2)
08/31/08	0.00	0.00	0.00	54 (86.0)	21 (90.2)	4.7 (88.3)	10 (81.2)	23 (80.2)
09/01/08	0.00	0.00	0.00	51 (88.2)	17 (92.9)	4.6 (88.6)	9.7 (81.8)	20 (83.7)
09/02/08	0.00	0.00	0.00	49 (89.9)	15 (94.3)	4.3 (89.2)	10 (81.2)	17 (87.7)
09/03/08	0.00	0.00	0.00	47 (91.4)	14 (95.0)	4.1 (89.7)	10 (81.2)	16 (89.2)
09/04/08	0.00	0.00	0.00	47 (91.4)	16 (93.6)	4.6 (88.6)	10 (81.2)	15 (90.6)
09/07/08	3.80	0.12	0.09	2120 (0.3)	1070 (0.5)	160 (7.2)	227 (5.8)	776 (0.9)
09/08/08	0.00	0.00	0.00	517 (7.1)	339 (6.3)	56 (33.6)	67 (33.1)	653 (1.3)
09/09/08	0.00	0.68	0.48	405 (11.2)	274 (9.3)	50 (37.2)	59 (37.4)	247 (11.0)

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09/10/08	0.74	0.00	0.01	394 (11.9)	257 (10.6)	42 (42.8)	53 (40.9)	240 (11.6)
09/11/08	0.00	0.00	0.00	258 (23.1)	162 (22.7)	35 (48.5)	41 (48.1)	171 (19.5)
09/12/08	0.00	0.28	0.12	191 (33.7)	116 (34.5)	31 (52.2)	36 (51.7)	120 (30.9)
09/13/08	0.17	0.00	0.00	172 (37.8)	104 (38.9)	29 (54.3)	33 (54.1)	103 (36.3)
09/14/08	0.45	0.78	0.51	256 (23.3)	160 (23.1)	35 (48.5)	41 (48.1)	111 (33.6)
09/15/08	0.19	0.00	0.00	257 (23.2)	149 (25.5)	32 (51.4)	37 (50.8)	173 (19.2)
09/16/08	0.00	0.00	0.00	177 (36.7)	103 (39.3)	26 (57.2)	28 (58.2)	132 (27.5)
09/17/08	0.00	0.00	0.01	140 (46.7)	79 (50.9)	22 (61.7)	24 (61.3)	98 (38.2)
09/18/08	0.00	0.00	0.00	118 (54.0)	63 (59.4)	21 (63.0)	22 (63.6)	81 (45.2)
09/19/08	0.00	0.00	0.00	103 (59.5)	52 (66.6)	19 (65.4)	20 (66.1)	59 (55.5)
09/20/08	0.00	0.00	0.00	97 (61.8)	46 (70.6)	18 (66.6)	18 (68.4)	59 (55.5)
09/21/08	0.00	0.00	0.21	100 (60.7)	48 (69.2)	16 (69.1)	16 (71.3)	55 (57.7)
09/22/08	0.25	0.00	0.01	111 (56.5)	56 (63.9)	14 (71.6)	13 (76.5)	53 (58.7)
09/23/08	0.00	0.00	0.00	98 (61.5)	46 (70.6)	14 (71.6)	13 (76.5)	53 (58.7)
09/24/08	0.00	0.00	0.00	89 (65.4)	41 (74.3)	17 (67.9)	17 (69.6)	51 (59.9)
09/26/08	0.00	1.57	1.43	219 (28.6)	119 (33.5)	30 (53.1)	37 (50.8)	58 (56.1)
09/27/08	1.20	0.62	0.63	455 (9.2)	272 (9.4)	48 (38.5)	56 (38.9)	216 (13.7)
09/28/08	0.65	0.06	0.03	461 (9.0)	281 (8.9)	40 (44.4)	46 (44.8)	313 (7.2)
09/29/08	0.14	0.13	0.11	328 (16.2)	194 (17.3)	29 (54.3)	32 (54.8)	247 (11.0)
09/30/08	0.00	0.19	0.65	271 (21.6)	147 (25.9)	27 (56.1)	30 (56.6)	170 (19.8)
10/01/08	0.01	0.46	0.04	289 (19.7)	129 (30.5)	32 (51.4)	34 (53.2)	151 (23.1)
10/02/08	0.03	0.01	0.02	216 (29.0)	106 (38.0)	36 (47.7)	37 (50.8)	140 (25.6)

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10/03/08	0.00	0.00	0.00	170 (38.4)	85 (47.7)	39 (45.1)	43 (46.8)	112 (33.2)
10/04/08	0.02	0.00	0.00	147 (44.5)	75 (53.0)	35 (48.5)	39 (49.5)	93 (40.3)
10/05/08	0.00	0.00	0.00	132 (49.0)	66 (57.9)	31 (52.2)	36 (51.7)	82 (44.9)
10/06/08	0.00	0.00	0.00	124 (51.9)	60 (61.2)	29 (54.3)	36 (51.7)	76 (47.5)
10/07/08	0.00	0.00	0.00	116 (54.7)	54 (65.4)	25 (58.6)	33 (54.1)	58 (56.1)
11/07/08	0.42	0.00	0.03	225 (27.6)	121 (32.8)	67 (27.8)	56 (38.9)	102 (36.6)
11/08/08	0.00	0.07	0.12	177 (36.7)	98 (41.5)	71 (25.7)	54 (40.2)	121 (30.5)
11/09/08	0.22	0.00	0.01	168 (38.9)	95 (42.9)	61 (30.8)	46 (44.8)	109 (34.3)
11/10/08	0.00	0.00	0.00	155 (42.3)	83 (48.6)	53 (35.3)	42 (47.5)	96 (39.1)
11/11/08	0.00	0.00	0.00	143 (45.5)	75 (53.0)	44 (41.1)	34 (53.2)	84 (43.9)
11/12/08	0.00	0.00	0.00	128 (50.3)	67 (57.4)	34 (49.5)	31 (55.7)	76 (47.5)
11/13/08	0.00	0.07	0.05	126 (51.0)	63 (59.4)	29 (54.3)	33 (54.1)	71 (49.7)
11/14/08	0.34	0.19	0.22	142 (45.9)	75 (53.0)	29 (54.3)	32 (54.8)	74 (48.4)
11/15/08	0.08	0.39	0.37	184 (35.3)	103 (39.3)	40 (44.4)	36 (51.7)	105 (35.7)
11/16/08	0.81	0.09	0.08	269 (21.8)	159 (23.4)	67 (27.8)	56 (38.9)	147 (24.0)
11/17/08	0.00	0.00	0.00	234 (26.2)	130 (30.2)	64 (29.3)	49 (43.0)	162 (21.2)
11/18/08	0.00	0.00	0.00	194 (33.1)	110 (36.6)	50 (37.2)	51 (42.0)	125 (29.4)

Table 5. 2008 Field observations from MassDEP DWM Nashua River Watershed river surveys.
S=sparse (0-25%, M=moderate (25-50%), D=dense (50-75%), VD=very dense (75-100%), N=none, U=unobservable, NR=not recorded) (MassDEP 2008)

						Areal Density								
Station ID	**Unique ID**	**Date**	**Odor**	**Water Clarity**	**Color**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**	**Floating Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**
BOW01	W1830	05/15/08	None	Clear	Brownish	S	N	M	N	S	Yes	foam slight	Yes	trash in stream
BOW01	W1830	06/09/08	None	Slightly Turbid	Clear	Not Applicable - Probe Deploy Field Sheet								
BOW01	W1830	06/12/08	Musty	Clear	Light Yellow	S	N	N	N	M	No		No	
BOW01	W1830	07/14/08	Musty	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
BOW01	W1830	07/17/08	Musty	Clear	Light Yellow	N	N	S	N	M	No		Yes	trash
BOW01	W1830	08/11/08	None	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
BOW01	W1830	08/14/08	None	Clear	Light Yellow	N	N	N	N	S	Yes	natural foam, minor	No	
BOW01	W1830	09/04/08	None	Clear	Light Yellow	S	N	N	N	S	No		No	
BOW01	W1830	09/18/08	None	Clear	Clear	N	N	M	N	M	No		No	
CAT01	W1812	05/13/08	None	Clear	Light Yellow	S	M	N	N	N	No		No	
CAT01	W1812	06/06/08	None	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
CAT01	W1812	06/10/08	Musty	Clear	Light Yellow	N	S	N	N	S	No		No	
CAT01	W1812	07/11/08	None	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
CAT01	W1812	07/15/08	Musty	Clear	Light Yellow	N	S	M	N	S	No		No	

Table 5. 2008 Field observations from MassDEP DWM Nashua River Watershed river surveys.
S=sparse (0-25%, M=moderate (25-50%), D=dense (50-75%), VD=very dense (75-100%), N=none, U=unobservable, NR=not recorded) (MassDEP 2008)

						Areal Density								
Station ID	**Unique ID**	**Date**	**Odor**	**Water Clarity**	**Color**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**	**Floating Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**
CAT01	W1812	08/08/08	Musty	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
CAT01	W1812	08/12/08	None	Clear	Light Yellow	U	U	U	U	U	No		No	
CAT01	W1812	09/02/08	None	Clear	Clear	N	N	N	N	M	No		No	
CAT01	W1812	09/16/08	Musty	Clear	Clear	N	N	S	N	S	No		No	
CAT02	W1843	05/13/08	Rotting Vegetables	Clear	Light Yellow	S	M	N	N	S	No		No	
CAT02	W1843	06/10/08	Musty	Clear	Light Yellow	N	N	S	N	N	No		Yes	trash
CAT02	W1843	07/15/08	Musty	Clear	Light Yellow	N	N	NR	N	N	No		Yes	trash
CAT02	W1843	08/12/08	Musty	Clear	Light Yellow	S	N	S	N	N	No		No	
CAT02	W1843	09/02/08	NR	Clear	Clear	S	N	N	NR	N	No		No	
CAT02	W1843	09/16/08	None	Clear	Light Yellow	S	N	N	N	S	No		No	
COB01	W1841	05/13/08	None	Clear	Clear	M	NR	N	N	N	No		No	
COB01	W1841	06/10/08	None	Clear	Light Yellow	N	N	S	N	M	No		No	
COB01	W1841	07/15/08	None	Clear	Dark Tan	N	N	M	N	S	No		No	
COB01	W1841	08/12/08	None	Clear	Clear	N	N	N	S	N	Yes	natural foam	No	
COB01	W1841	09/02/08	Other	Clear	Clear	S	N	N	N	S	No		No	

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						Areal Density								
Station ID	Unique ID	Date	Odor	Water Clarity	Color	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss	Floating Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments
COB01	W1841	09/16/08	None	Clear	Clear	M	N	N	NR	N	No		No	
CSB01	W1842	05/15/08	Musty	Clear	Light Yellow	S	D	N	N	N	Yes	foam, slight	No	
CSB01	W1842	06/12/08	Musty	Slightly Turbid	Light Yellow	S	N	N	N	N	No		No	
CSB01	W1842	06/23/08	Musty	Slightly Turbid	Light Yellow	M	N	N	N	N	Yes	algal mat	No	
CSB01	W1842	07/17/08	Musty	Slightly Turbid	Light Yellow	M	S	N	S	S	Yes	pollen/dust blankets	Yes	trash, mild
CSB01	W1842	08/14/08	None	Clear	Light Yellow	M	N	N	N	N	Yes	foam; natural	No	
CSB01	W1842	08/19/08	Musty	Clear	Rusty	M	N	N	N	N	No		No	
CSB01	W1842	09/04/08	Musty	Highly Turbid	Brownish	M	M	N	N	N	Yes	oily sheens	No	
CSB01	W1842	09/18/08	None	Clear	Clear	D	S	NR	N	N	No		Yes	light trash
CSB01	W1842	09/24/08	None	Clear	Light Yellow	M	N	N	N	N	No		No	
CSB03	W2064	06/23/08	Musty	Moderately Turbid	Light Yellow	M	N	N	N	N	No		No	
CSB03	W2064	08/19/08	Musty	Moderately Turbid	Rusty	M	N	N	N	N	Yes	pollen/dust blankets; natural	No	
CSB03	W2064	09/24/08	None	Moderately Turbid	Light Yellow	D	U	U	U	U	Yes	pollen/dust blankets; minimal	No	
CSB04	W2065	06/23/08	Rotting Vegetables	Moderately Turbid	Light Yellow	N	N	N	N	N	No		No	

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						Areal Density								
Station ID	**Unique ID**	**Date**	**Odor**	**Water Clarity**	**Color**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**	**Floating Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**
CSB04	W2065	08/19/08	Rotting Vegetables	Slightly Turbid	Clear	N	N	N	N	N	No		No	
CSB04	W2065	09/24/08	None	Slightly Turbid	Light Yellow	N	N	N	N	N	No		No	
FAH01	W1836	05/13/08	None	Clear	Clear	N	N	NR	N	N	No		No	
FAH01	W1836	06/10/08	None	Clear	Greyish	N	N	S	S	N	Yes	foam	Yes	light trash
FAH01	W1836	07/15/08	None	Slightly Turbid	Hazy Yellow	N	N	M	N	N	Yes	foam	No	
FAH01	W1836	08/12/08	None	Clear	Clear	N	M	N	N	N	Yes	natural foam	No	
FAH01	W1836	09/02/08	Musty	Slightly Turbid	Clear	N	N	M	N	N	No		No	
FAH01	W1836	09/16/08	None	Clear	Clear	N	N	D	N	N	No		No	
FAH02	W1837	05/15/08	Other	Clear	Clear	N	S	NR	N	N	No		Yes	trash
FAH02	W1837	06/12/08	None	Clear	Clear	N	N	M	N	M	No		Yes	light trash
FAH02	W1837	07/17/08	Raw sewage	Clear	Clear	N	N	N	N	N	No		Yes	trash
FAH02	W1837	08/14/08	Musty	Clear	Clear	N	N	N	N	N	No		No	
FAH02	W1837	09/04/08	None	Clear	NR	N	N	N	S	N	No		No	
FAH02	W1837	09/18/08	Raw sewage	Clear	Clear	N	N	S	N	S	No		No	
FAL01	W1825	05/13/08	None	Clear	Clear	N	N	N	N	N	No		No	

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						Areal Density								
Station ID	**Unique ID**	**Date**	**Odor**	**Water Clarity**	**Color**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**	**Floating Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**
FAL01	W1825	06/10/08	None	Clear	Clear	N	N	N	N	N	Yes	pollen/dust blankets	No	
FAL01	W1825	07/15/08	None	Clear	Clear	N	N	S	N	N	No		No	
FAL01	W1825	08/12/08	None	Clear	Clear	N	N	N	N	N	No		No	
FAL01	W1825	09/02/08	None	Clear	Clear	N	N	N	N	N	No		Yes	construction debris
FAL01	W1825	09/16/08	None	Clear	Clear	N	N	N	N	N	No		No	
FAL02	W1827	06/20/08	None	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
FAL03	W1826	05/13/08	None	Clear	Clear	N	N	N	N	N	No		Yes	trash, some natural foam, minor trash
FAL03	W1826	06/10/08	None	Clear	Clear	N	N	N	N	N	No		Yes	light trash
FAL03	W1826	07/15/08	None	Clear	Light Yellow	N	N	M	N	S	No		No	
FAL03	W1826	08/12/08	None	Clear	Clear	N	N	S	N	S	Yes	natural foam	No	
FAL03	W1826	09/02/08	None	Clear	Clear	N	N	N	N	S	No		Yes	trash
FAL03	W1826	09/16/08	None	Clear	Clear	N	N	N	N	N	No		No	
FCH01	W2066	05/22/08	Musty	Clear	Light Yellow	N	N	N	N	N	No		No	
FCH01	W2066	06/19/08	None	Slightly Turbid	Light Yellow	N	N	N	N	S	No		No	

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						Areal Density								
Station ID	**Unique ID**	**Date**	**Odor**	**Water Clarity**	**Color**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**	**Floating Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**
FCH01	W2066	07/24/08	None	Slightly Turbid	Rusty	N	N	S	N	S	No		No	
FCH01	W2066	08/21/08	Musty	Clear	Light Yellow	N	N	N	N	M	No		No	
FLG03	W1807	05/15/08	None	Clear	Clear	N	N	S	N	N	No		Yes	trash, slight
FLG03	W1807	06/12/08	None	Clear	Clear	N	N	S	N	S	No		Yes	trash, light, metal, debris
FLG03	W1807	07/17/08	None	Clear	Clear	N	N	S	N	S	Yes	minor foam	Yes	trash, dumping
FLG03	W1807	08/14/08	Musty	Clear	Clear	N	N	S	N	N	No		Yes	trash
FLG03	W1807	09/04/08	Musty	Slightly Turbid	Clear	N	N	N	N	N	No		No	
FLG03	W1807	09/18/08	None	Slightly Turbid	Clear	N	N	S	N	N	No		No	
GAT25	W1817	05/22/08	None	Clear	Clear	N	N	N	N	S	No		No	
GAT25	W1817	06/19/08	None	Clear	Clear	N	N	N	N	N	No		No	
GAT25	W1817	06/20/08	None	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
GAT25	W1817	07/24/08	None	Slightly Turbid	Clear	N	N	N	N	S	No		No	
GAT25	W1817	08/21/08	None	Clear	Clear	N	N	N	N	N	No		No	
GOV01	W1839	05/13/08	None	Clear	Brownish	N	NR	N	N	M	No		No	
GOV01	W1839	06/10/08	None	Clear	Reddish	N	N	S	N	D	No		No	

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						Areal Density								
Station ID	**Unique ID**	**Date**	**Odor**	**Water Clarity**	**Color**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**	**Floating Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**
GOV01	W1839	07/15/08	None	Clear	Dark Tan	N	N	S	N	D	No		No	
GOV01	W1839	08/12/08	Earthy	Clear	Rusty	N	N	N	N	D	Yes	foam	No	
GOV01	W1839	09/02/08	None	Slightly Turbid	Light Yellow	N	N	N	N	D	No		No	
GOV01	W1839	09/16/08	None	Clear	Dark Tan	N	U	U	U	U	No		No	
GROTON	W0497	07/14/08	None	Slightly Turbid	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
GROTON	W0497	07/16/08	None	Slightly Turbid	Clear	N	U	U	U	U	Yes	pollen/dust blankets; minor	U	
GROTON	W0497	08/29/08	None	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
GROTON	W0497	09/03/08	None	Slightly Turbid	NR	N	U	U	U	U	No		No	
GUL01	W1844	05/13/08	None	Slightly Turbid	Brownish	N	N	N	N	N	No		No	
GUL01	W1844	06/10/08	None	Slightly Turbid	Clear	N	N	N	N	N	No		No	
GUL01	W1844	07/15/08	None	Clear	Light Yellow	S	U	U	U	U	No		No	
GUL01	W1844	08/12/08	None	Clear	Light Yellow	N	U	U	U	U	No		No	
GUL01	W1844	09/02/08	None	Slightly Turbid	Grayish	S	N	N	N	N	No		Yes	slight trash
GUL01	W1844	09/16/08	None	Clear	Light Yellow	S	U	U	U	U	No		No	

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Station ID	**Unique ID**	**Date**	**Odor**	**Water Clarity**	**Color**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**	**Floating Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**
ICEDAM	W1001	07/14/08	None	Slightly Turbid	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
ICEHOUSE	W2070	08/29/08	Musty	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
JAM01	W1000	05/15/08	None	Clear	Clear	N	N	NR	N	N	No		Yes	trash; building materials
JAM01	W1000	06/09/08	None	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
JAM01	W1000	06/12/08	None	Clear	Light Yellow	N	N	N	N	S	Yes	foam minimal	No	
JAM01	W1000	07/14/08	Musty	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
JAM01	W1000	07/17/08	None	Clear	Light Yellow	N	N	D	M	N	No		No	
JAM01	W1000	08/11/08	Musty	Clear	Reddish	Not Applicable - Probe Deploy Field Sheet								
JAM01	W1000	08/14/08	None	Clear	Light Yellow	N	N	N	N	S	Yes	minor foam, natural	No	
JAM01	W1000	09/04/08	Musty	Clear	Light Yellow	N	N	S	N	S	No		No	
JAM01	W1000	09/18/08	None	Clear	Light Yellow	N	N	NR	N	S	Yes	some natural foam	Yes	trash
LOC01	W1834	05/15/08	None	Clear	Clear	N	N	N	N	N	No		No	
LOC01	W1834	06/12/08	None	Clear	Clear	N	N	N	N	N	No		No	
LOC01	W1834	07/17/08	NR	Clear	NR	N	S	N	N	N	No		No	
LOC01	W1834	08/14/08	None	Clear	Clear	N	N	M	N	N	No		No	

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Station ID	**Unique ID**	**Date**	**Odor**	**Water Clarity**	**Color**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**	**Floating Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**
LOC01	W1834	09/04/08	None	Clear	Clear	N	N	N	N	N	No		No	
LOC01	W1834	09/18/08	None	Clear	Clear	N	N	S	N	N	No		No	
MAG01	W1819	05/15/08	None	Clear	Light Yellow	N	N	N	N	N	No		No	
MAG01	W1819	06/06/08	None	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
MAG01	W1819	06/12/08	None	Clear	Clear	N	N	N	N	N	No		No	
MAG01	W1819	07/11/08	None	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
MAG01	W1819	07/17/08	None	Clear	Clear	N	N	S	N	S	No		No	
MAG01	W1819	08/08/08	None	Clear	Reddish	Not Applicable - Probe Deploy Field Sheet								
MAG01	W1819	08/14/08	None	Clear	Reddish	N	N	N	N	N	Yes	foam; minor	No	
MAG01	W1819	09/04/08	None	Clear	Light Yellow	N	N	N	N	S	No		No	
MAG01	W1819	09/18/08	None	Clear	Light Yellow	N	N	S	N	M	No		No	
MAL01	W1818	05/22/08	None	Clear	Light Yellow	N	N	N	N	S	No		No	
MAL01	W1818	06/19/08	None	Clear	Clear	S	S	N	N	N	No		No	
MAL01	W1818	06/20/08	None	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
MAL01	W1818	07/24/08	None	Slightly Turbid	Clear	S	N	N	N	N	No		No	

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Station ID	**Unique ID**	**Date**	**Odor**	**Water Clarity**	**Color**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**	**Floating Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**
MAL01	W1818	08/21/08	None	Clear	Clear	S	M	N	N	N	No		No	
MON01	W1810	05/13/08	None	Clear	Clear	N	N	N	N	M	No		No	
MON01	W1810	06/10/08	None	Clear	Clear	N	N	S	N	N	No		Yes	light trash
MON01	W1810	07/15/08	None	Clear	Light Yellow	N	N	N	N	S	No		No	
MON01	W1810	08/12/08	None	Clear	Clear	S	N	N	N	S	No		No	
MON01	W1810	09/02/08	None	Clear	Clear	S	N	N	N	M	No		No	
MON01	W1810	09/16/08	None	Clear	Clear	N	N	N	N	N	No		No	
MONOO	W0994	05/13/08	None	Clear	Clear	S	N	N	N	N	No		Yes	trash
MONOO	W0994	06/10/08	Musty	Clear	Clear	S	N	N	N	N	Yes	oily sheens, natural sheen	Yes	trash, orange floc, impair levels of trash
MONOO	W0994	07/15/08	None	Clear	Light Yellow	M	N	N	N	N	No		No	
MONOO	W0994	08/12/08	None	Clear	Clear	M	N	N	N	N	No		Yes	trash, not major
MONOO	W0994	09/02/08	None	Clear	Clear	M	NR	N	N	N	No		No	
MONOO	W0994	09/16/08	None	Clear	Clear	N	N	N	N	N	No		Yes	trash
MPB02	W1824	05/13/08	None	Clear	Light Yellow	N	N	N	N	D	No		No	

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Station ID	**Unique ID**	**Date**	**Odor**	**Water Clarity**	**Color**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**	**Floating Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**
MPB02	W1824	06/10/08	None	Clear	Light Yellow	N	N	N	N	M	No		No	
MPB02	W1824	06/30/08	Musty	Slightly Turbid	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
MPB02	W1824	07/15/08	Musty	Clear	Light Yellow	N	N	S	N	N	Yes	foam - riffle and water fall	No	
MPB02	W1824	08/12/08	Musty	Clear	Light Yellow	U	N	N	N	M	No		No	
MPB02	W1824	09/02/08	Musty	Clear	Clear	N	N	N	N	D	No		No	
MPB02	W1824	09/16/08	Musty	Slightly Turbid	Light Yellow	N	N	N	N	VD	Yes	foam from riffle aeration	No	
MPB03	W0998	05/15/08	None	Clear	Clear	N	N	N	N	D	No		No	
MPB03	W0998	06/09/08	Musty	NR	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
MPB03	W0998	06/12/08	None	Clear	Light Yellow	N	N	N	N	N	Yes	foam, minimal	No	
MPB03	W0998	06/30/08	None	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
MPB03	W0998	07/16/08	None	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
MPB03	W0998	07/17/08	Musty	Clear	Light Yellow	N	N	M	N	N	No		No	
MPB03	W0998	08/11/08	Musty	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
MPB03	W0998	08/14/08	None	Clear	Clear	N	N	S	N	N	No		No	

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						Areal Density								
Station ID	**Unique ID**	**Date**	**Odor**	**Water Clarity**	**Color**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**	**Floating Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**
MPB03	W0998	09/04/08	None	Clear	Light Yellow	N	N	NR	NR	N	Yes	natural foam	No	
MPB03	W0998	09/12/08	None	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
MPB03	W0998	09/18/08	Musty	Clear	Light Yellow	N	N	M	N	M	No		No	
MUD01	W2067	05/22/08	None	Clear	Light Yellow	N	N	N	N	N	No		No	
MUD01	W2067	06/19/08	None	Slightly Turbid	Light Yellow	N	N	N	N	N	No		No	
MUD01	W2067	07/24/08	None	Slightly Turbid	Clear	N	N	N	N	N	No		No	
MUD01	W2067	08/21/08	None	Slightly Turbid	Clear	N	N	N	N	N	No		No	
MUL01	W1823	05/13/08	None	Clear	Light Yellow	N	S	M	N	N	No		No	toilet
MUL01	W1823	06/06/08	None	Slightly Turbid	Clear	Not Applicable - Probe Deploy Field Sheet								
MUL01	W1823	06/10/08	None	Clear	Clear	N	N	N	N	S	No		Yes	trash
MUL01	W1823	06/20/08	Musty	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
MUL01	W1823	07/11/08	None	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
MUL01	W1823	07/15/08	None	Clear	Light Yellow	N	N	N	N	S	No		Yes	trash
MUL01	W1823	08/08/08	None	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								

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						Areal Density								
Station ID	**Unique ID**	**Date**	**Odor**	**Water Clarity**	**Color**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**	**Floating Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**
MUL01	W1823	08/12/08	None	Clear	Light Yellow	N	N	S	N	N	No		No	
MUL01	W1823	09/02/08	None	Clear	Clear	N	N	N	NR	S	No		No	
MUL01	W1823	09/16/08	None	Clear	Clear	N	N	M	N	S	No		No	
MUS01	W1840	05/13/08	None	Clear	Brownish	S	N	N	N	N	No		No	some natural foam
MUS01	W1840	06/10/08	None	Clear	Light Yellow	N	N	N	M	D	Yes	pollen/dust blankets, foam	Yes	orange floc in small side tributary
MUS01	W1840	07/15/08	None	Slightly Turbid	Brownish	N	N	M	N	M	No		No	
MUS01	W1840	08/12/08	None	Clear	Light Yellow	N	N	S	N	S	Yes	natural foam	No	
MUS01	W1840	09/02/08	Musty	Clear	Light Yellow	N	N	N	N	M	Yes	foam natural	No	
MUS01	W1840	09/16/08	None	Clear	Reddish	N	N	N	N	S	Yes	foam	No	
NAS02	W1806	05/13/08	None	Clear	Light Yellow	U	U	U	U	U	No		No	
NAS02	W1806	06/06/08	Effluent	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NAS02	W1806	06/10/08	Effluent	Clear	Clear	N	S	N	N	M	No		No	
NAS02	W1806	07/11/08	Effluent	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
NAS02	W1806	07/15/08	None	Clear	Clear	N	N	S	N	S	No		No	

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NAS02	W1806	08/08/08	Musty	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NAS02	W1806	08/12/08	None	Clear	Light Yellow	U	U	U	U	U	No		No	
NAS02	W1806	09/02/08	None	Clear	Clear	S	N	S	N	N	No		Yes	trash; fishing debris, furniture
NAS02	W1806	09/12/08	None	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NAS02	W1806	09/16/08	Effluent	Clear	Dark Tan	N	U	U	U	U	No		No	
NIS02	W1815	05/13/08	NR	Clear	Light Yellow	S	M	N	N	N	No		No	
NIS02	W1815	06/10/08	None	Clear	Clear	N	D	N	N	N	No		No	
NIS02	W1815	06/20/08	None	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NIS02	W1815	07/15/08	None	Clear	Light Yellow	S	S	S	N	N	No		No	
NIS02	W1815	08/12/08	None	Clear	Clear	S	N	N	N	N	No		No	
NIS02	W1815	09/02/08	None	Clear	Clear	S	D	D	N	S	No		No	
NIS02	W1815	09/16/08	Musty	Clear	Light Yellow	S	N	N	S	N	Yes	foam; natural	No	
NM21	W0484	05/15/08	None	Clear	Brownish	N	U	U	U	U	No		No	
NM21	W0484	06/09/08	None	Moderately Turbid	U	Not Applicable - Probe Deploy Field Sheet								
NM21	W0484	06/12/08	None	Clear	Clear	S	U	U	U	U	No		No	

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NM21	W0484	07/14/08	U	Slightly Turbid	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NM21	W0484	07/17/08	None	Slightly Turbid	Clear	S	U	U	U	U	No		No	
NM21	W0484	08/11/08	U	Moderately Turbid	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NM21	W0484	08/14/08	None	Slightly Turbid	Clear	U	U	U	U	U	No		No	
NM21	W0484	09/04/08	Musty	Highly Turbid	Dark Tan	U	U	U	U	U	No		No	
NM21	W0484	09/12/08	U	Slightly Turbid	Brownish	Not Applicable - Probe Deploy Field Sheet								
NM21	W0484	09/18/08	Musty	Clear	Clear	N	U	U	U	U	No		No	
NM25	W0488	05/15/08	None	Clear	Brownish	N	U	U	U	U	No		No	
NM25	W0488	06/06/08	None	U	U	Not Applicable - Probe Deploy Field Sheet								
NM25	W0488	06/12/08	None	U	Clear	D	U	U	U	U	No		No	
NM25	W0488	07/11/08	U	Moderately Turbid	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NM25	W0488	07/17/08	Effluent	Clear	Light Yellow	D	U	U	U	U	No		No	
NM25	W0488	08/08/08	U	Moderately Turbid	U	Not Applicable - Probe Deploy Field Sheet								
NM25	W0488	08/14/08	None	Moderately Turbid	Clear	U	U	U	U	U	No		No	

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						Areal Density								
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NM25	W0488	09/04/08	Musty	Slightly Turbid	Light Yellow	M	N	N	M	N	No		No	
NM25	W0488	09/18/08	Effluent	Clear	Light Yellow	S	U	U	U	U	No		No	
NM27	W0496	06/09/08	None	Slightly Turbid	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NM27	W0496	07/14/08	None	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NM27	W0496	08/11/08	U	Moderately Turbid	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NM27	W0496	08/29/08	NR	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
NM27	W0496	09/03/08	None	U	U	U	U	U	U	U	No		No	
NN08	W2069	06/23/08	Effluent	Slightly Turbid	Light Yellow	N	N	N	N	N	No		No	
NN08	W2069	08/19/08	Musty	Slightly Turbid	Clear	N	N	N	N	N	No		No	
NN08	W2069	10/01/08	None	Clear	Dark Tan	N	U	U	U	U	Yes	foam	NR	
NN08	W2069	10/03/08	None	Clear	Light Yellow	N	N	S	N	N	No		No	
NN08	W2069	10/07/08	None	Clear	Light Yellow	N	N	N	N	N	No		No	
NN08	W2069	11/12/08	None	Clear	Light Yellow	N	N	N	N	N	No		No	
NN08	W2069	11/14/08	Musty	Clear	Light Yellow	N	N	N	N	N	No		No	

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NN08	W2069	11/18/08	None	Clear	Light Yellow	N	N	N	N	N	No		No	
NN09	W0480	05/15/08	Effluent	Clear	Clear	N	N	N	N	N	No		Yes	trash
NN09	W0480	06/06/08	None	Slightly Turbid	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NN09	W0480	06/12/08	None	Clear	Light Yellow	N	N	NR	N	N	No		Yes	trash, light
NN09	W0480	06/23/08	Effluent	Moderately Turbid	Light Yellow	N	N	N	N	N	No		No	
NN09	W0480	07/11/08	Effluent	Slightly Turbid	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NN09	W0480	07/17/08	Effluent	Clear	Clear	N	N	N	N	S	No		Yes	trash
NN09	W0480	08/08/08	Musty	Slightly Turbid	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NN09	W0480	08/14/08	None	Clear	Light Yellow	N	N	S	N	NR	No		Yes	trash
NN09	W0480	08/19/08	Effluent	Slightly Turbid	Light Yellow	N	N	S	N	N	No		No	
NN09	W0480	09/04/08	Effluent	Clear	Clear	N	N	S	N	N	Yes	minor, foam	No	
NN09	W0480	09/12/08	None	Moderately Turbid	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NN09	W0480	09/18/08	Musty	Slightly Turbid	NR	N	N	S	N	N	Yes	natural foam	No	
NN09	W0480	10/01/08	Musty	Slightly Turbid	Light Yellow	N	N	M	N	N	No		No	

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Station ID	Unique ID	Date	Odor	Water Clarity	Color	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss	Floating Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments
NN09	W0480	10/03/08	Musty	Slightly Turbid	Light Yellow	N	N	S	N	N	No		No	
NN09	W0480	10/07/08	Musty, Effluent	Slightly Turbid	Light Yellow	N	N	M	N	N	No		No	
NN09	W0480	11/12/08	Effluent	Slightly Turbid	Light Yellow	N	N	S	N	N	No		No	
NN09	W0480	11/14/08	None	Clear	Light Yellow	N	U	U	U	U	Yes	natural foam	No	
NN09	W0480	11/18/08	Raw sewage	Slightly Turbid	Light Yellow	N	N	S	N	N	No		No	
NN10	W2068	06/23/08	None	Clear	Clear	N	N	N	N	N	No		No	
NN10	W2068	08/19/08	Musty	Clear	Clear	N	N	S	N	N	No		No	
NN10	W2068	10/01/08	Musty	Slightly Turbid	Light Yellow	N	N	M	N	N	No		No	
NN10	W2068	10/03/08	Musty	Clear	Light Yellow	N	N	S	N	N	No		No	
NN10	W2068	10/07/08	Musty	Clear	Light Yellow	N	N	M	N	N	No		No	
NN10	W2068	11/12/08	None	Clear	Light Yellow	N	S	N	N	N	No		No	
NN10	W2068	11/14/08	None	Clear	Light Yellow	N	S	N	N	N	No		No	
NN10	W2068	11/18/08	None	Clear	Light Yellow	N	S	N	N	N	No		No	
NN10A	W0993	05/15/08	Effluent	Clear	Clear	N	N	N	N	N	No		No	

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Station ID	**Unique ID**	**Date**	**Odor**	**Water Clarity**	**Color**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**	**Floating Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**
NN10A	W0993	06/09/08	Musty	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
NN10A	W0993	06/12/08	Effluent	Clear	Greyish	N	N	S	N	S	Yes	foam	Yes	trash, light
NN10A	W0993	07/14/08	Effluent	Slightly Turbid	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NN10A	W0993	07/17/08	Effluent	Clear	Greyish	N	N	S	N	N	No		Yes	trash
NN10A	W0993	08/11/08	Musty	Moderately Turbid	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NN10A	W0993	08/14/08	None	Slightly Turbid	Light Yellow	U	U	U	U	U	No		Yes	trash
NN10A	W0993	09/04/08	Effluent	Clear	Clear	N	N	S	N	N	No		No	
NN10A	W0993	09/12/08	Sewage	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NN10A	W0993	09/18/08	None	Clear	Clear	N	N	S	N	N	No		Yes	trash on banks
NN12	W0481	06/06/08	Chlorine	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NN12	W0481	07/11/08	Musty	Slightly Turbid	NR	Not Applicable - Probe Deploy Field Sheet								
NN12	W0481	08/08/08	Effluent	Moderately Turbid	Brownish	Not Applicable - Probe Deploy Field Sheet								
NN12	W0481	09/12/08	None	Slightly Turbid	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NNR01	W1780	05/15/08	None	Clear	Clear	N	N	S	S	N	No		No	
NNR01	W1780	06/12/08	None	Clear	Clear	N	N	N	N	N	Yes	pollen/dust blankets	Yes	trash, pipes in bottom of river

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NNR01	W1780	07/17/08	Musty	Clear	Clear	N	N	S	N	N	No		Yes	trash
NNR01	W1780	08/14/08	Effluent	Clear	Light Yellow	N	N	S	D	N	Yes	foam, very sparse	No	
NNR01	W1780	09/04/08	None	Clear	Clear	N	N	N	N	N	No		No	
NNR01	W1780	09/18/08	None	Clear	Clear	N	N	S	N	N	No		Yes	other; pipe
NNR01	W1780	10/01/08	None	Slightly Turbid	Light Yellow	N	U	U	U	U	No		No	
NNR01	W1780	10/03/08	Musty	Slightly Turbid	Light Yellow	N	U	U	U	U	Yes	Minor foam	No	
NNR01	W1780	10/07/08	None	Slightly Turbid	Light Yellow	N	U	U	U	U	No		No	
NNR01	W1780	11/12/08	None	Slightly Turbid	Light Yellow	N	N	N	N	N	No		No	
NNR01	W1780	11/14/08	None	Clear	Light Yellow	N	N	N	N	N	No		No	
NNR01	W1780	11/18/08	None	Clear	Light Yellow	N	N	N	N	N	No		No	
NNR04	W1781	05/15/08	None	Clear	Clear	N	N	N	N	N	Yes	foam slight	No	
NNR04	W1781	06/12/08	Effluent	Clear	Clear	N	N	N	N	N	No		No	
NNR04	W1781	07/17/08	None	Clear	Clear	N	N	N	N	N	No		No	
NNR04	W1781	08/14/08	Musty	Slightly Turbid	Clear	N	N	N	N	N	No		No	
NNR04	W1781	09/04/08	Effluent	Slightly Turbid	Clear	N	N	N	N	N	No		U	

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Station ID	**Unique ID**	**Date**	**Odor**	**Water Clarity**	**Color**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**	**Floating Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**
NNR04	W1781	09/18/08	None	Clear	Light Yellow	N	N	N	N	N	No		Yes	trash
NON00	W1813	05/15/08	None	Slightly Turbid	Light Yellow	N	N	N	N	N	No		No	
NON00	W1813	06/06/08	Musty	Slightly Turbid	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NON00	W1813	06/12/08	None	Clear	Clear	S	N	N	N	N	No		No	
NON00	W1813	07/11/08	None	Slightly Turbid	Clear	Not Applicable - Probe Deploy Field Sheet								
NON00	W1813	07/17/08	None	Clear	Clear	N	N	N	S	N	No		No	
NON00	W1813	08/08/08	None	Highly Turbid	Brownish	Not Applicable - Probe Deploy Field Sheet								
NON00	W1813	08/14/08	None	Clear	Clear	N	N	N	N	S	No		No	
NON00	W1813	09/04/08	Musty	Moderately Turbid	Light Yellow	N	U	U	U	U	Yes	oily sheens, pollen/dust blankets	No	
NON00	W1813	09/18/08	Musty	Clear	Light Yellow	N	N	N	N	N	No		Yes	trash
NS17	W0482	05/15/08	None	Clear	Clear	S	D	D	N	N	No		No	
NS17	W0482	06/09/08	None	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
NS17	W0482	06/12/08	None	Clear	Clear	M	D	N	N	N	No		Yes	Brown organic floc
NS17	W0482	07/14/08	None	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								

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NS17	W0482	07/17/08	None	Clear	Clear	M	N	S	N	S	No		No	
NS17	W0482	08/11/08	Musty	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
NS17	W0482	08/14/08	None	Clear	Clear	M	U	U	U	U	No		No	
NS17	W0482	09/04/08	None	Clear	Clear	M	S	N	N	N	No		No	
NS17	W0482	09/12/08	None	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
NS17	W0482	09/18/08	None	Clear	Clear	M	M	N	D	N	No		No	
NS19	W0483	06/06/08	Musty	Moderately Turbid	Clear	Not Applicable - Probe Deploy Field Sheet								
NS19	W0483	07/11/08	Musty	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
NS19	W0483	08/08/08	U	Slightly Turbid	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NS19	W0483	09/12/08	U	Slightly Turbid	Clear	Not Applicable - Probe Deploy Field Sheet								
NT34	W0992	05/15/08	None	Clear	Light Yellow	N	U	U	U	U	No		No	
NT34	W0992	06/12/08	None	Clear	Clear	S	N	N	NR	N	Yes	pollen/dust blankets	No	
NT34	W0992	07/17/08	None	Slightly Turbid	Clear	U	U	U	U	U	No		No	
NT34	W0992	08/14/08	None	Clear	NR	U	U	U	U	U	No		No	
NT34	W0992	09/04/08	None	Slightly Turbid	Clear	N	U	U	U	U	Yes	minor general plant matter	U	

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NT34	W0992	09/18/08	None	Slightly Turbid	Light Yellow	N	U	U	U	U	Yes	other; leaves	No	
NT60A	W0487	06/06/08	None	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NT60A	W0487	06/30/08	None	U	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NT60A	W0487	07/11/08	Musty	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NT60A	W0487	08/08/08	Musty	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NT68	W0486	05/13/08	None	Clear	Light Yellow	N	N	N	N	N	No		No	
NT68	W0486	06/06/08	None	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
NT68	W0486	06/10/08	None	Clear	Clear	N	N	N	N	N	No		Yes	trash
NT68	W0486	06/30/08	None	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NT68	W0486	07/11/08	Musty	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NT68	W0486	07/15/08	Fishy	Clear	Light Yellow	N	M	D	N	S	No		Yes	trash
NT68	W0486	08/08/08	Musty	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
NT68	W0486	08/12/08	None	Clear	Clear	N	N	N	N	N	No		No	
NT68	W0486	09/02/08	None	Clear	Clear	N	N	N	N	N	No		No	

Table 5. 2008 Field observations from MassDEP DWM Nashua River Watershed river surveys.
S=sparse (0-25%, M=moderate (25-50%), D=dense (50-75%), VD=very dense (75-100%), N=none, U=unobservable, NR=not recorded) (MassDEP 2008)

						Areal Density								
Station ID	**Unique ID**	**Date**	**Odor**	**Water Clarity**	**Color**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**	**Floating Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**
NT68	W0486	09/16/08	Musty	Clear	Light Yellow	N	N	S	N	N	Yes	aeration foam, natural	No	
PEB01	W1846	05/13/08	None	Clear	Clear	N	NR	N	N	M	No		No	
PEB01	W1846	06/10/08	Musty	Clear	Clear	N	M	N	N	D	No		Yes	other, yard waste
PEB01	W1846	07/15/08	None	Clear	Light Yellow	N	N	S	N	S	No		No	
PEB01	W1846	08/12/08	Musty	Clear	Light Yellow	S	N	N	N	D	Yes	foam; from dam	No	
PEB01	W1846	09/02/08	Musty	Slightly Turbid	Clear	N	N	N	N	VD	No		No	
PEB01	W1846	09/16/08	None	Clear	Light Yellow	N	N	N	N	VD	No		No	
PEPPOND	W0495	07/14/08	None	Slightly Turbid	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
PEPPOND	W0495	08/29/08	Earthy	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
PH00	W0991	05/15/08	None	Clear	Clear	N	N	S	N	N	No		No	
PH00	W0991	06/12/08	Fishy	Clear	Clear	N	N	S	N	M	No		Yes	light trash
PH00	W0991	07/17/08	Musty	Clear	Clear	N	N	N	N	S	Yes	minimal foam	No	
PH00	W0991	08/14/08	Rotting Vegetables, Garbage	Clear	Light Yellow	N	N	M	N	M	No		NR	
PH00	W0991	09/04/08	None	Clear	Clear	N	N	N	N	S	Yes	very minor foam	No	

Table 5. 2008 Field observations from MassDEP DWM Nashua River Watershed river surveys.
S=sparse (0-25%, M=moderate (25-50%), D=dense (50-75%), VD=very dense (75-100%), N=none, U=unobservable, NR=not recorded) (MassDEP 2008)

						Areal Density								
Station ID	**Unique ID**	**Date**	**Odor**	**Water Clarity**	**Color**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**	**Floating Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**
PH00	W0991	09/18/08	None	Clear	Clear	N	N	S	N	S	No		No	
PH01	W1809	05/15/08	None	Clear	Clear	S	N	N	N	N	No		No	
PH01	W1809	06/09/08	None	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
PH01	W1809	06/12/08	None	Clear	Clear	S	N	S	N	M	No		No	
PH01	W1809	06/20/08	None	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
PH01	W1809	07/14/08	None	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
PH01	W1809	07/17/08	None	Clear	Clear	M	S	N	N	S	No		No	
PH01	W1809	08/11/08	Musty	Slightly Turbid	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
PH01	W1809	08/14/08	None	Clear	Clear	S	N	M	N	M	No		No	
PH01	W1809	09/04/08	None	Clear	Clear	S	S	N	N	N	No		No	
PH01	W1809	09/18/08	Musty	Clear	Clear	S	N	S	N	N	Yes	foam; natural	No	
PHB01	W1835	05/15/08	None	Clear	Clear	N	U	U	U	U	No		No	
PHB01	W1835	06/12/08	None	Clear	Light Yellow	S	S	N	N	N	No		U	
PHB01	W1835	07/17/08	None	Clear	Clear	N	N	N	N	S	No		No	
PHB01	W1835	08/14/08	None	Clear	Clear	N	N	N	N	S	No		No	

Table 5. 2008 Field observations from MassDEP DWM Nashua River Watershed river surveys.
S=sparse (0-25%, M=moderate (25-50%), D=dense (50-75%), VD=very dense (75-100%), N=none, U=unobservable, NR=not recorded) (MassDEP 2008)

						Areal Density								
Station ID	Unique ID	Date	Odor	Water Clarity	Color	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss	Floating Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments
PHB01	W1835	09/04/08	None	Clear	Clear	N	D	N	N	S	No		No	
PHB01	W1835	09/18/08	None	Clear	Clear	N	S	S	N	S	No		No	
QXR01	W1821	05/13/08	None	Clear	Clear	S	N	N	N	N	No		No	
QXR01	W1821	06/06/08	None	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
QXR01	W1821	06/10/08	None	Clear	Light Yellow	N	N	N	N	S	No		No	
QXR01	W1821	07/11/08	None	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
QXR01	W1821	07/15/08	Musty	Clear	Light Yellow	N	S	M	N	S	No		No	
QXR01	W1821	08/08/08	None	Slightly Turbid	Reddish	Not Applicable - Probe Deploy Field Sheet								
QXR01	W1821	08/12/08	None	Clear	Brownish	U	U	U	U	U	Yes	natural foam	No	
QXR01	W1821	09/02/08	Musty	Clear	Clear	N	N	M	N	N	No		No	
QXR01	W1821	09/16/08	None	Clear	Clear	N	N	M	N	N	Yes	foam; minor	No	
QXR02	W1822	06/20/08	None	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
SQ08	W1283	05/13/08	None	Clear	Light Yellow	M	U	U	U	U	No		No	
SQ08	W1283	06/06/08	None	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
SQ08	W1283	06/10/08	None	Clear	Clear	S	U	U	U	U	No		No	

Table 5. 2008 Field observations from MassDEP DWM Nashua River Watershed river surveys.
S=sparse (0-25%, M=moderate (25-50%), D=dense (50-75%), VD=very dense (75-100%), N=none, U=unobservable, NR=not recorded) (MassDEP 2008)

						Areal Density								
Station ID	**Unique ID**	**Date**	**Odor**	**Water Clarity**	**Color**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**	**Floating Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**
SQ08	W1283	06/20/08	None	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
SQ08	W1283	07/11/08	U	Clear	U	Not Applicable - Probe Deploy Field Sheet								
SQ08	W1283	07/15/08	Musty	Slightly Turbid	Light Yellow	M	N	N	N	N	No		No	
SQ08	W1283	08/08/08	None	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
SQ08	W1283	08/12/08	None	Clear	Light Yellow	U	U	U	U	U	No		No	
SQ08	W1283	09/02/08	None	Clear	Clear	S	N	N	S	N	No		No	
SQ08	W1283	09/16/08	None	Slightly Turbid	Light Yellow	N	U	U	U	U	No		No	
SQC01	W1814	05/15/08	None	Clear	Clear	S	N	N	N	N	No		No	
SQC01	W1814	06/12/08	None	Clear	Clear	S	N	N	N	N	No		No	
SQC01	W1814	07/17/08	None	Clear	Clear	S	S	N	N	N	No		Yes	trash
SQC01	W1814	08/14/08	Musty, Rotting Vegetables	Clear	Light Yellow	N	N	N	N	N	No		No	
SQC01	W1814	09/04/08	None	Clear	Dark Tan	U	U	U	U	U	No		No	
SQC01	W1814	09/18/08	None	Clear	Light Yellow	S	N	N	N	N	No		Yes	trash
STL01	W0995	05/15/08	Musty	Clear	Clear	S	U	U	U	U	No		No	

Table 5. 2008 Field observations from MassDEP DWM Nashua River Watershed river surveys.
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						Areal Density								
Station ID	**Unique ID**	**Date**	**Odor**	**Water Clarity**	**Color**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**	**Floating Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**
STL01	W0995	06/06/08	None	U	U	Not Applicable - Probe Deploy Field Sheet								
STL01	W0995	06/12/08	None	U	Light Yellow	S	U	U	U	U	No		No	
STL01	W0995	06/30/08	None	Moderately Turbid	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
STL01	W0995	07/11/08	None	Highly Turbid	Brownish	Not Applicable - Probe Deploy Field Sheet								
STL01	W0995	07/17/08	None	Clear	Light Yellow	M	S	N	N	N	Yes	algal mat	No	
STL01	W0995	08/08/08	U	U	U	Not Applicable - Probe Deploy Field Sheet								
STL01	W0995	08/14/08	None	Slightly Turbid	Reddish	S	U	U	U	U	No		No	
STL01	W0995	09/04/08	Musty	Moderately Turbid	Brownish	S	U	U	U	U	No		No	
STL01	W0995	09/18/08	None	U	NR	M	U	U	U	U	No		No	
STL02	W1811	05/15/08	None	Slightly Turbid	Brownish	S	N	M	N	N	Yes	oily sheens; natural	No	
STL02	W1811	06/12/08	Musty	Moderately Turbid	Light Yellow	S	U	U	U	U	No		No	
STL02	W1811	07/17/08	Musty	Slightly Turbid	Light Yellow	D	S	D	S	N	Yes	algal mat	No	
STL02	W1811	08/14/08	None	Clear	Light Yellow	S	M	N	N	N	No		No	
STL02	W1811	09/04/08	Musty	Moderately Turbid	Dark Tan	M	N	N	NR	N	Yes	algal mat	No	

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						Areal Density								
Station ID	**Unique ID**	**Date**	**Odor**	**Water Clarity**	**Color**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**	**Floating Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**
STL02	W1811	09/18/08	None	Clear	Light Yellow	D	U	U	U	U	No		No	
STW01	W1820	05/22/08	None	Clear	Light Yellow	S	N	N	N	N	No		No	
STW01	W1820	06/19/08	None	Clear	Light Yellow	S	N	N	N	N	No		No	
STW01	W1820	06/20/08	None	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
STW01	W1820	07/24/08	Musty	Moderately Turbid	Light Yellow	S	U	U	U	U	Yes	minor foam	U	
STW01	W1820	08/21/08	None	Clear	Clear	S	S	N	N	N	No		No	
SUC01	W1816	05/13/08	None	Clear	Clear	N	N	N	N	S	No		No	
SUC01	W1816	06/06/08	None	Slightly Turbid	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
SUC01	W1816	06/10/08	None	Slightly Turbid	Light Yellow	N	N	S	N	S	No		No	
SUC01	W1816	07/11/08	NR	NR	NR	Not Applicable - Probe Deploy Field Sheet								
SUC01	W1816	07/15/08	None	Clear	Light Yellow	S	N	S	N	N	No		No	
SUC01	W1816	08/08/08	None	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
SUC01	W1816	08/12/08	None	Clear	Light Yellow	N	N	S	N	N	No		No	
SUC01	W1816	09/02/08	None	Clear	Clear	N	N	N	N	N	No		No	

Table 5. 2008 Field observations from MassDEP DWM Nashua River Watershed river surveys.
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						Areal Density								
Station ID	**Unique ID**	**Date**	**Odor**	**Water Clarity**	**Color**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**	**Floating Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**
SUC01	W1816	09/12/08	None	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
SUC01	W1816	09/16/08	Musty	Clear	Light Yellow	N	N	M	N	N	Yes	foam, natural	No	
SWA01	W1838	05/13/08	None	Clear	Brownish	N	D	N	N	S	No	natural foam	No	
SWA01	W1838	06/10/08	None	Clear	Light Yellow	N	N	N	N	S	No		No	
SWA01	W1838	07/15/08	None	Clear	Dark Tan	N	N	S	N	S	No		No	
SWA01	W1838	08/12/08	None	Clear	Clear	N	N	S	N	S	No		No	
SWA01	W1838	09/02/08	None	Slightly Turbid	Clear	N	N	N	N	S	Yes	foam natural	No	
SWA01	W1838	09/16/08	NR	Clear	Reddish	N	N	S	N	S	Yes	minor foam	No	
TFB01	W1833	05/15/08	None	Clear	Light Yellow	N	M	N	N	M	No		No	
TFB01	W1833	06/12/08	None	Clear	Light Yellow	N	N	N	N	M	No		No	
TFB01	W1833	07/17/08	None	Clear	Clear	N	N	N	N	S	No		No	
TFB01	W1833	08/14/08	None	Clear	Light Yellow	N	N	S	N	S	No		No	
TFB01	W1833	09/04/08	None	Clear	Clear	N	N	N	N	S	No		No	
TFB01	W1833	09/18/08	None	Clear	Clear	N	N	N	N	S	No		No	
UNK01	W1829	05/13/08	None	Clear	Dark Tan	N	N	N	N	N	No		No	

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						Areal Density								
Station ID	**Unique ID**	**Date**	**Odor**	**Water Clarity**	**Color**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**	**Floating Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**
UNK01	W1829	06/10/08	Musty	Clear	Light Yellow	N	N	N	N	N	No		No	
UNK01	W1829	07/15/08	None	Clear	Light Yellow	M	D	N	N	N	No		No	
UNK01	W1829	08/12/08	Rotting Vegetables	Clear	Light Yellow	U	N	S	N	N	No		No	
UNK01	W1829	09/02/08	None	Moderately Turbid	Greyish	N	N	N	M	N	Yes	foam	No	
UNK01	W1829	09/16/08	None	Clear	Light Yellow	N	N	N	N	N	Yes	foam	No	
WEK01	W1831	05/13/08	None	Clear	Clear	N	N	N	N	N	No		No	
WEK01	W1831	06/10/08	None	Clear	Clear	N	S	N	N	S	No		No	
WEK01	W1831	07/15/08	None	Clear	Light Yellow	N	N	S	N	S	No		No	
WEK01	W1831	08/12/08	None	Clear	Clear	N	S	N	N	N	No		No	
WEK01	W1831	09/02/08	None	Clear	Clear	N	S	N	N	N	No		No	
WEK01	W1831	09/16/08	None	Clear	Clear	N	N	N	N	S	No		No	
WHR01	W1808	05/15/08	Musty	Clear	Light Yellow	N	S	N	N	N	No		No	
WHR01	W1808	06/09/08	None	Clear	Reddish	Not Applicable - Probe Deploy Field Sheet								
WHR01	W1808	06/12/08	None	Clear	Reddish	S	N	S	N	S	Yes	pollen/dust blankets, light	Yes	light trash
WHR01	W1808	07/14/08	None	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								

Table 5. 2008 Field observations from MassDEP DWM Nashua River Watershed river surveys.
S=sparse (0-25%, M=moderate (25-50%), D=dense (50-75%), VD=very dense (75-100%), N=none, U=unobservable, NR=not recorded) (MassDEP 2008)

						Areal Density								
Station ID	**Unique ID**	**Date**	**Odor**	**Water Clarity**	**Color**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**	**Floating Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**
WHR01	W1808	07/17/08	Musty	Clear	Light Yellow	N	S	N	N	M	Yes	foam; very slight	No	
WHR01	W1808	08/11/08	U	Slightly Turbid	Reddish	Not Applicable - Probe Deploy Field Sheet								
WHR01	W1808	08/14/08	None	Clear	Light Yellow	N	N	N	N	N	No		No	
WHR01	W1808	09/04/08	None	Clear	Light Yellow	N	N	N	N	S	No		No	
WHR01	W1808	09/18/08	None	Slightly Turbid	Light Yellow	N	N	S	N	S	Yes	natural foam	No	
WILL01	W1832	05/15/08	None	Clear	Clear	N	N	N	N	N	No		No	
WILL01	W1832	06/09/08	None	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
WILL01	W1832	06/12/08	None	Clear	Light Yellow	N	N	N	N	N	No		No	
WILL01	W1832	07/16/08	None	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
WILL01	W1832	07/17/08	Musty	Clear	Clear	N	N	S	N	N	No		No	
WILL01	W1832	08/11/08	None	Slightly Turbid	Brownish	Not Applicable - Probe Deploy Field Sheet								
WILL01	W1832	08/14/08	None	Clear	Clear	N	N	S	N	N	No		No	
WILL01	W1832	09/04/08	None	Clear	Clear	N	N	S	N	N	No		No	
WILL01	W1832	09/12/08	None	Clear	Light Yellow	Not Applicable - Probe Deploy Field Sheet								
WILL01	W1832	09/18/08	None	Clear	Clear	N	N	S	N	N	No		No	

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						Areal Density								
Station ID	**Unique ID**	**Date**	**Odor**	**Water Clarity**	**Color**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**	**Floating Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**
WIT01	W1845	05/13/08	None	Clear	Light Yellow	N	S	N	N	N	No		No	
WIT01	W1845	06/10/08	Musty	Clear	Light Yellow	N	N	S	N	N	No		No	
WIT01	W1845	07/15/08	None	Clear	Light Yellow	N	N	N	N	N	No		No	
WIT01	W1845	08/12/08	Musty, Rotting Vegetables	Clear	Light Yellow	N	N	S	N	S	No		No	
WIT01	W1845	09/02/08	None	Slightly Turbid	Greyish	N	N	N	N	N	No		No	
WIT01	W1845	09/16/08	Musty	Clear	Light Yellow	N	N	S	N	S	No		No	

Table 6. 2008 Field observations from MassDEP DWM Nashua River Watershed lake surveys.
S=sparse (0-25%), M=moderate (25-50%), D=dense (50-75%), VD=very dense (75-100%), N=none, U=unobservable, NR=not recorded) (MassDEP 2008)

							Areal Density								
Station ID	**Unique ID**	**Date**	**Odor**	**Clarity**	**Color**	**Secchi (meters)**	**Algae**	**Emergent**	**Floating**	**Submerged**	**Overall Density**	**Floating Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposits Comments**
ICEDAM	W1001	07/16/08	None	Moderately Turbid	Light Yellow	**	S	N	S	N	S	Yes	pollen/dust blankets; duckweed	No	
ICEHOUSE	W2070	08/29/08	Musty	Clear	Light Yellow	1.5	S	S	S	S	S	No		No	
ICEHOUSE	W2070	09/03/08	None	Slightly Turbid	Greenish	2.4	M	N	M	N	M	No		No	
PEPPOND	W0495	07/16/08	None	Slightly Turbid	Light Yellow	1.9	S	N	N	N	N	No		No	
PEPPOND	W0495	08/29/08	None	Clear	Clear	3.2	S	NR	M	M	M	No		No	
PEPPOND	W0495	09/03/08	None	Slightly Turbid	Greenish	3.2	S	N	S	N	S	Yes	algal mat	Yes	flocculent mass; filamentous algae and duckweed along all shores

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
BOW01	W1830	81-0507	05/15/08	9:25	*E. coli*	CFU/100mL	43	
BOW01	W1830	81-0647	06/12/08	10:15	*E. coli*	CFU/100mL	110	
BOW01	W1830	81-0838	07/17/08	10:09	*E. coli*	CFU/100mL	83	
BOW01	W1830	81-1032	08/14/08	9:53	*E. coli*	CFU/100mL	65	
BOW01	W1830	81-1126	09/04/08	10:35	*E. coli*	CFU/100mL	90	
BOW01	W1830	81-1218	09/18/08	9:40	*E. coli*	CFU/100mL	55	
BOW01	W1830	81-0507	05/15/08	9:25	Ammonia-N	mg/L	<0.02	
BOW01	W1830	81-0647	06/12/08	10:15	Ammonia-N	mg/L	0.04	
BOW01	W1830	81-0838	07/17/08	10:09	Ammonia-N	mg/L	0.02	
BOW01	W1830	81-1032	08/14/08	9:53	Ammonia-N	mg/L	<0.02	
BOW01	W1830	81-1218	09/18/08	9:40	Ammonia-N	mg/L	<0.02	
BOW01	W1830	81-0507	05/15/08	9:25	Total Nitrogen	mg/L	0.43	
BOW01	W1830	81-0647	06/12/08	10:15	Total Nitrogen	mg/L	0.60	
BOW01	W1830	81-0838	07/17/08	10:09	Total Nitrogen	mg/L	0.50	
BOW01	W1830	81-1032	08/14/08	9:53	Total Nitrogen	mg/L	0.42	
BOW01	W1830	81-1218	09/18/08	9:40	Total Nitrogen	mg/L	0.32	
BOW01	W1830	81-0507	05/15/08	9:25	Total Phosphorus	mg/L	0.030	
BOW01	W1830	81-0647	06/12/08	10:15	Total Phosphorus	mg/L	0.054	
BOW01	W1830	81-0838	07/17/08	10:09	Total Phosphorus	mg/L	0.035	
BOW01	W1830	81-1032	08/14/08	9:53	Total Phosphorus	mg/L	0.030	
BOW01	W1830	81-1218	09/18/08	9:40	Total Phosphorus	mg/L	0.019	
BOW01	W1830	81-0507	05/15/08	9:25	Turbidity	NTU	3.9	b
BOW01	W1830	81-0647	06/12/08	10:15	Turbidity	NTU	4.1	
BOW01	W1830	81-0838	07/17/08	10:09	Turbidity	NTU	3.4	
BOW01	W1830	81-1032	08/14/08	9:53	Turbidity	NTU	1.0	
BOW01	W1830	81-1218	09/18/08	9:40	Turbidity	NTU	0.9	
BOW01	W1830	81-0507	05/15/08	9:25	True Color	PCU	31	
BOW01	W1830	81-0647	06/12/08	10:15	True Color	PCU	43	
BOW01	W1830	81-0838	07/17/08	10:09	True Color	PCU	46	
BOW01	W1830	81-1032	08/14/08	9:53	True Color	PCU	42	
BOW01	W1830	81-1218	09/18/08	9:40	True Color	PCU	28	
CAT01	W1812	81-0485	05/13/08	8:09	*E. coli*	CFU/100mL	48	
CAT01	W1812	81-0625	06/10/08	8:11	*E. coli*	CFU/100mL	1400	
CAT01	W1812	81-0816	07/15/08	8:15	*E. coli*	CFU/100mL	80	
CAT01	W1812	81-1008	08/12/08	8:40	*E. coli*	CFU/100mL	200	
CAT01	W1812	81-1106	09/02/08	8:22	*E. coli*	CFU/100mL	87	
CAT01	W1812	81-1196	09/16/08	8:30	*E. coli*	CFU/100mL	48	
CAT01	W1812	81-0485	05/13/08	8:09	Ammonia-N	mg/L	<0.02	
CAT01	W1812	81-0625	06/10/08	8:11	Ammonia-N	mg/L	0.05	
CAT01	W1812	81-0816	07/15/08	8:15	Ammonia-N	mg/L	0.02	
CAT01	W1812	81-1008	08/12/08	8:40	Ammonia-N	mg/L	0.13	
CAT01	W1812	81-1196	09/16/08	8:30	Ammonia-N	mg/L	0.02	
CAT01	W1812	81-0485	05/13/08	8:09	Total Nitrogen	mg/L	0.29	
CAT01	W1812	81-0625	06/10/08	8:11	Total Nitrogen	mg/L	0.45	
CAT01	W1812	81-0816	07/15/08	8:15	Total Nitrogen	mg/L	0.32	
CAT01	W1812	81-1008	08/12/08	8:40	Total Nitrogen	mg/L	0.59	
CAT01	W1812	81-1196	09/16/08	8:30	Total Nitrogen	mg/L	0.41	
CAT01	W1812	81-0485	05/13/08	8:09	Total Phosphorus	mg/L	0.012	
CAT01	W1812	81-0625	06/10/08	8:11	Total Phosphorus	mg/L	0.025	
CAT01	W1812	81-0816	07/15/08	8:15	Total Phosphorus	mg/L	0.017	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
CAT01	W1812	81-1008	08/12/08	8:40	Total Phosphorus	mg/L	0.020	
CAT01	W1812	81-1196	09/16/08	8:30	Total Phosphorus	mg/L	0.015	
CAT01	W1812	81-0485	05/13/08	8:09	Turbidity	NTU	1.2	
CAT01	W1812	81-0625	06/10/08	8:11	Turbidity	NTU	2.7	b
CAT01	W1812	81-0816	07/15/08	8:15	Turbidity	NTU	1.3	
CAT01	W1812	81-1008	08/12/08	8:40	Turbidity	NTU	1.8	
CAT01	W1812	81-1196	09/16/08	8:30	Turbidity	NTU	1.8	
CAT01	W1812	81-0485	05/13/08	8:09	True Color	PCU	21	
CAT01	W1812	81-0625	06/10/08	8:11	True Color	PCU	28	
CAT01	W1812	81-0816	07/15/08	8:15	True Color	PCU	24	
CAT01	W1812	81-1008	08/12/08	8:40	True Color	PCU	40	
CAT01	W1812	81-1196	09/16/08	8:30	True Color	PCU	33	
CAT02	W1843	81-0487	05/13/08	8:43	*E. coli*	CFU/100mL	110	
CAT02	W1843	81-0627	06/10/08	8:45	*E. coli*	CFU/100mL	200	
CAT02	W1843	81-0818	07/15/08	8:55	*E. coli*	CFU/100mL	300	
CAT02	W1843	81-1010	08/12/08	9:10	*E. coli*	CFU/100mL	280	
CAT02	W1843	81-1108	09/02/08	8:58	*E. coli*	CFU/100mL	1300	
CAT02	W1843	81-1198	09/16/08	9:05	*E. coli*	CFU/100mL	4400	
COB01	W1841	81-0476	05/13/08	9:40	*E. coli*	CFU/100mL	10	
COB01	W1841	81-0616	06/10/08	9:48	*E. coli*	CFU/100mL	26	
COB01	W1841	81-0807	07/15/08	9:38	*E. coli*	CFU/100mL	16	
COB01	W1841	81-0999	08/12/08	9:36	*E. coli*	CFU/100mL	150	
COB01	W1841	81-1095	09/02/08	9:08	*E. coli*	CFU/100mL	32	
COB01	W1841	81-1185	09/16/08	9:42	*E. coli*	CFU/100mL	26	
CSB01	W1842	81-0508	05/15/08	9:35	*E. coli*	CFU/100mL	43	
CSB01	W1842	81-0648	06/12/08	10:30	*E. coli*	CFU/100mL	110	
CSB01	W1842	81-0839	07/17/08	10:25	*E. coli*	CFU/100mL	29	
CSB01	W1842	81-1033	08/14/08	10:07	*E. coli*	CFU/100mL	52	
CSB01	W1842	81-1129	09/04/08	10:45	*E. coli*	CFU/100mL	110	
CSB01	W1842	81-1219	09/18/08	9:50	*E. coli*	CFU/100mL	80	
CSB01	W1842	81-0718	06/23/08	8:45	Hardness	mg/L as CaCO3	52	
CSB01	W1842	81-0910	08/19/08	9:00	Hardness	mg/L as CaCO3	30	
CSB01	W1842	81-1240	09/24/08	9:05	Hardness	mg/L as CaCO3	34	
CSB01	W1842	81-0718	06/23/08	8:45	Aluminum - Dissolved	µg/L	<20	
CSB01	W1842	81-0910	08/19/08	9:00	Aluminum - Dissolved	µg/L	<50	
CSB01	W1842	81-1240	09/24/08	9:05	Aluminum - Dissolved	µg/L	<50	
CSB01	W1842	81-0718	06/23/08	8:45	Antimony - Dissolved	µg/L	<0.15	
CSB01	W1842	81-0910	08/19/08	9:00	Antimony - Dissolved	µg/L	<0.16	
CSB01	W1842	81-1240	09/24/08	9:05	Antimony - Dissolved	µg/L	##	d
CSB01	W1842	81-0718	06/23/08	8:45	Arsenic - Dissolved	µg/L	3.9	
CSB01	W1842	81-0910	08/19/08	9:00	Arsenic - Dissolved	µg/L	3.1	
CSB01	W1842	81-1240	09/24/08	9:05	Arsenic - Dissolved	µg/L	1.3	
CSB01	W1842	81-0718	06/23/08	8:45	Beryllium - Dissolved	µg/L	<0.20	
CSB01	W1842	81-0910	08/19/08	9:00	Beryllium - Dissolved	µg/L	<0.20	
CSB01	W1842	81-1240	09/24/08	9:05	Beryllium - Dissolved	µg/L	<0.20	
CSB01	W1842	81-0718	06/23/08	8:45	Cadmium - Dissolved	µg/L	<0.13	
CSB01	W1842	81-0910	08/19/08	9:00	Cadmium - Dissolved	µg/L	<0.13	
CSB01	W1842	81-1240	09/24/08	9:05	Cadmium - Dissolved	µg/L	<0.13	
CSB01	W1842	81-0718	06/23/08	8:45	Calcium - Dissolved	mg/L	16	
CSB01	W1842	81-0910	08/19/08	9:00	Calcium - Dissolved	mg/L	8.9	
CSB01	W1842	81-1240	09/24/08	9:05	Calcium - Dissolved	mg/L	10.0	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
CSB01	W1842	81-0718	06/23/08	8:45	Chromium - Dissolved	µg/L	<0.22	
CSB01	W1842	81-0910	08/19/08	9:00	Chromium - Dissolved	µg/L	##	d
CSB01	W1842	81-1240	09/24/08	9:05	Chromium - Dissolved	µg/L	0.33	
CSB01	W1842	81-0718	06/23/08	8:45	Copper - Dissolved	µg/L	0.43	
CSB01	W1842	81-0910	08/19/08	9:00	Copper - Dissolved	µg/L	0.65	
CSB01	W1842	81-1240	09/24/08	9:05	Copper - Dissolved	µg/L	1.3	a, b, d
CSB01	W1842	81-0718	06/23/08	8:45	Lead - Dissolved	µg/L	<0.14	
CSB01	W1842	81-0910	08/19/08	9:00	Lead - Dissolved	µg/L	0.16	
CSB01	W1842	81-1240	09/24/08	9:05	Lead - Dissolved	µg/L	<0.14	
CSB01	W1842	81-0718	06/23/08	8:45	Magnesium - Dissolved	mg/L	3.1	
CSB01	W1842	81-0910	08/19/08	9:00	Magnesium - Dissolved	mg/L	1.8	
CSB01	W1842	81-1240	09/24/08	9:05	Magnesium - Dissolved	mg/L	2.1	
CSB01	W1842	81-0718	06/23/08	8:45	Nickel - Dissolved	µg/L	0.88	
CSB01	W1842	81-0910	08/19/08	9:00	Nickel - Dissolved	µg/L	0.87	
CSB01	W1842	81-1240	09/24/08	9:05	Nickel - Dissolved	µg/L	0.79	
CSB01	W1842	81-0718	06/23/08	8:45	Selenium - Dissolved	µg/L	<2.6	
CSB01	W1842	81-0910	08/19/08	9:00	Selenium - Dissolved	µg/L	<2.6	
CSB01	W1842	81-1240	09/24/08	9:05	Selenium - Dissolved	µg/L	<2.6	
CSB01	W1842	81-0718	06/23/08	8:45	Silver - Dissolved	µg/L	<0.13	
CSB01	W1842	81-0910	08/19/08	9:00	Silver - Dissolved	µg/L	<0.13	
CSB01	W1842	81-1240	09/24/08	9:05	Silver - Dissolved	µg/L	<0.13	
CSB01	W1842	81-0718	06/23/08	8:45	Thallium - Dissolved	µg/L	<0.16	
CSB01	W1842	81-0910	08/19/08	9:00	Thallium - Dissolved	µg/L	<0.20	
CSB01	W1842	81-1240	09/24/08	9:05	Thallium - Dissolved	µg/L	<0.20	
CSB01	W1842	81-0718	06/23/08	8:45	Zinc - Dissolved	µg/L	0.49	b
CSB01	W1842	81-0910	08/19/08	9:00	Zinc - Dissolved	µg/L	1.4	
CSB01	W1842	81-1240	09/24/08	9:05	Zinc - Dissolved	µg/L	1.6	b, d
CSB03	W2064	81-0719	06/23/08	9:20	Hardness	mg/L as CaCO3	63	
CSB03	W2064	81-0913	08/19/08	9:30	Hardness	mg/L as CaCO3	56	
CSB03	W2064	81-1243	09/24/08	9:45	Hardness	mg/L as CaCO3	64	
CSB03	W2064	81-0719	06/23/08	9:20	Aluminum - Dissolved	µg/L	<20	
CSB03	W2064	81-0913	08/19/08	9:30	Aluminum - Dissolved	µg/L	<50	
CSB03	W2064	81-1243	09/24/08	9:45	Aluminum - Dissolved	µg/L	<50	
CSB03	W2064	81-0719	06/23/08	9:20	Antimony - Dissolved	µg/L	<0.15	
CSB03	W2064	81-0913	08/19/08	9:30	Antimony - Dissolved	µg/L	<0.16	
CSB03	W2064	81-1243	09/24/08	9:45	Antimony - Dissolved	µg/L	<0.16	d
CSB03	W2064	81-0719	06/23/08	9:20	Arsenic - Dissolved	µg/L	5.6	
CSB03	W2064	81-0913	08/19/08	9:30	Arsenic - Dissolved	µg/L	3.7	
CSB03	W2064	81-1243	09/24/08	9:45	Arsenic - Dissolved	µg/L	2.2	
CSB03	W2064	81-0719	06/23/08	9:20	Beryllium - Dissolved	µg/L	<0.20	
CSB03	W2064	81-0913	08/19/08	9:30	Beryllium - Dissolved	µg/L	<0.20	
CSB03	W2064	81-1243	09/24/08	9:45	Beryllium - Dissolved	µg/L	<0.20	
CSB03	W2064	81-0719	06/23/08	9:20	Cadmium - Dissolved	µg/L	<0.13	
CSB03	W2064	81-0913	08/19/08	9:30	Cadmium - Dissolved	µg/L	<0.13	
CSB03	W2064	81-1243	09/24/08	9:45	Cadmium - Dissolved	µg/L	<0.13	
CSB03	W2064	81-0719	06/23/08	9:20	Calcium - Dissolved	mg/L	20	
CSB03	W2064	81-0913	08/19/08	9:30	Calcium - Dissolved	mg/L	18	
CSB03	W2064	81-1243	09/24/08	9:45	Calcium - Dissolved	mg/L	20	
CSB03	W2064	81-0719	06/23/08	9:20	Chromium - Dissolved	µg/L	<0.22	
CSB03	W2064	81-0913	08/19/08	9:30	Chromium - Dissolved	µg/L	0.49	d
CSB03	W2064	81-1243	09/24/08	9:45	Chromium - Dissolved	µg/L	0.58	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
CSB03	W2064	81-0719	06/23/08	9:20	Copper - Dissolved	µg/L	0.53	
CSB03	W2064	81-0913	08/19/08	9:30	Copper - Dissolved	µg/L	0.74	
CSB03	W2064	81-1243	09/24/08	9:45	Copper - Dissolved	µg/L	1.3	a, b
CSB03	W2064	81-0719	06/23/08	9:20	Lead - Dissolved	µg/L	0.25	
CSB03	W2064	81-0913	08/19/08	9:30	Lead - Dissolved	µg/L	0.30	
CSB03	W2064	81-1243	09/24/08	9:45	Lead - Dissolved	µg/L	0.15	
CSB03	W2064	81-0719	06/23/08	9:20	Magnesium - Dissolved	mg/L	3.0	
CSB03	W2064	81-0913	08/19/08	9:30	Magnesium - Dissolved	mg/L	2.7	
CSB03	W2064	81-1243	09/24/08	9:45	Magnesium - Dissolved	mg/L	3.2	
CSB03	W2064	81-0719	06/23/08	9:20	Nickel - Dissolved	µg/L	0.97	
CSB03	W2064	81-0913	08/19/08	9:30	Nickel - Dissolved	µg/L	0.99	
CSB03	W2064	81-1243	09/24/08	9:45	Nickel - Dissolved	µg/L	0.81	
CSB03	W2064	81-0719	06/23/08	9:20	Selenium - Dissolved	µg/L	<2.6	
CSB03	W2064	81-0913	08/19/08	9:30	Selenium - Dissolved	µg/L	<2.6	
CSB03	W2064	81-1243	09/24/08	9:45	Selenium - Dissolved	µg/L	<2.6	
CSB03	W2064	81-0719	06/23/08	9:20	Silver - Dissolved	µg/L	<0.13	
CSB03	W2064	81-0913	08/19/08	9:30	Silver - Dissolved	µg/L	<0.13	
CSB03	W2064	81-1243	09/24/08	9:45	Silver - Dissolved	µg/L	<0.13	
CSB03	W2064	81-0719	06/23/08	9:20	Thallium - Dissolved	µg/L	<0.16	
CSB03	W2064	81-0913	08/19/08	9:30	Thallium - Dissolved	µg/L	<0.20	
CSB03	W2064	81-1243	09/24/08	9:45	Thallium - Dissolved	µg/L	<0.20	
CSB03	W2064	81-0719	06/23/08	9:20	Zinc - Dissolved	µg/L	1.2	b
CSB03	W2064	81-0913	08/19/08	9:30	Zinc - Dissolved	µg/L	2.2	
CSB03	W2064	81-1243	09/24/08	9:45	Zinc - Dissolved	µg/L	1.0	b
CSB04	W2065	81-0720	06/23/08	9:50	Hardness	mg/L as CaCO3	70	
CSB04	W2065	81-0914	08/19/08	9:55	Hardness	mg/L as CaCO3	62	
CSB04	W2065	81-1244	09/24/08	10:10	Hardness	mg/L as CaCO3	68	
CSB04	W2065	81-0720	06/23/08	9:50	Aluminum - Dissolved	µg/L	<20	
CSB04	W2065	81-0914	08/19/08	9:55	Aluminum - Dissolved	µg/L	<50	
CSB04	W2065	81-1244	09/24/08	10:10	Aluminum - Dissolved	µg/L	<50	
CSB04	W2065	81-0720	06/23/08	9:50	Antimony - Dissolved	µg/L	<0.15	
CSB04	W2065	81-0914	08/19/08	9:55	Antimony - Dissolved	µg/L	<0.16	
CSB04	W2065	81-1244	09/24/08	10:10	Antimony - Dissolved	µg/L	0.22	d
CSB04	W2065	81-0720	06/23/08	9:50	Arsenic - Dissolved	µg/L	6.9	
CSB04	W2065	81-0914	08/19/08	9:55	Arsenic - Dissolved	µg/L	3.0	
CSB04	W2065	81-1244	09/24/08	10:10	Arsenic - Dissolved	µg/L	2.3	
CSB04	W2065	81-0720	06/23/08	9:50	Beryllium - Dissolved	µg/L	<0.20	
CSB04	W2065	81-0914	08/19/08	9:55	Beryllium - Dissolved	µg/L	<0.20	
CSB04	W2065	81-1244	09/24/08	10:10	Beryllium - Dissolved	µg/L	<0.20	
CSB04	W2065	81-0720	06/23/08	9:50	Cadmium - Dissolved	µg/L	<0.13	
CSB04	W2065	81-0914	08/19/08	9:55	Cadmium - Dissolved	µg/L	<0.13	
CSB04	W2065	81-1244	09/24/08	10:10	Cadmium - Dissolved	µg/L	<0.13	
CSB04	W2065	81-0720	06/23/08	9:50	Calcium - Dissolved	mg/L	22	
CSB04	W2065	81-0914	08/19/08	9:55	Calcium - Dissolved	mg/L	20	
CSB04	W2065	81-1244	09/24/08	10:10	Calcium - Dissolved	mg/L	22	
CSB04	W2065	81-0720	06/23/08	9:50	Chromium - Dissolved	µg/L	<0.22	
CSB04	W2065	81-0914	08/19/08	9:55	Chromium - Dissolved	µg/L	0.31	d
CSB04	W2065	81-1244	09/24/08	10:10	Chromium - Dissolved	µg/L	0.56	
CSB04	W2065	81-0720	06/23/08	9:50	Copper - Dissolved	µg/L	0.51	
CSB04	W2065	81-0914	08/19/08	9:55	Copper - Dissolved	µg/L	0.68	
CSB04	W2065	81-1244	09/24/08	10:10	Copper - Dissolved	µg/L	1.1	a, b

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
CSB04	W2065	81-0720	06/23/08	9:50	Lead - Dissolved	µg/L	0.40	
CSB04	W2065	81-0914	08/19/08	9:55	Lead - Dissolved	µg/L	<0.14	
CSB04	W2065	81-1244	09/24/08	10:10	Lead - Dissolved	µg/L	<0.14	
CSB04	W2065	81-0720	06/23/08	9:50	Magnesium - Dissolved	mg/L	3.5	
CSB04	W2065	81-0914	08/19/08	9:55	Magnesium - Dissolved	mg/L	3.1	
CSB04	W2065	81-1244	09/24/08	10:10	Magnesium - Dissolved	mg/L	3.3	
CSB04	W2065	81-0720	06/23/08	9:50	Nickel - Dissolved	µg/L	0.93	
CSB04	W2065	81-0914	08/19/08	9:55	Nickel - Dissolved	µg/L	0.73	
CSB04	W2065	81-1244	09/24/08	10:10	Nickel - Dissolved	µg/L	0.84	
CSB04	W2065	81-0720	06/23/08	9:50	Selenium - Dissolved	µg/L	<2.6	
CSB04	W2065	81-0914	08/19/08	9:55	Selenium - Dissolved	µg/L	<2.6	
CSB04	W2065	81-1244	09/24/08	10:10	Selenium - Dissolved	µg/L	<2.6	
CSB04	W2065	81-0720	06/23/08	9:50	Silver - Dissolved	µg/L	<0.13	
CSB04	W2065	81-0914	08/19/08	9:55	Silver - Dissolved	µg/L	<0.13	
CSB04	W2065	81-1244	09/24/08	10:10	Silver - Dissolved	µg/L	<0.13	
CSB04	W2065	81-0720	06/23/08	9:50	Thallium - Dissolved	µg/L	<0.16	
CSB04	W2065	81-0914	08/19/08	9:55	Thallium - Dissolved	µg/L	<0.20	
CSB04	W2065	81-1244	09/24/08	10:10	Thallium - Dissolved	µg/L	<0.20	
CSB04	W2065	81-0720	06/23/08	9:50	Zinc - Dissolved	µg/L	0.60	b
CSB04	W2065	81-0914	08/19/08	9:55	Zinc - Dissolved	µg/L	0.58	
CSB04	W2065	81-1244	09/24/08	10:10	Zinc - Dissolved	µg/L	1.5	b
FAH01	W1836	81-0483	05/13/08	12:05	*E. coli*	CFU/100mL	38	
FAH01	W1836	81-0623	06/10/08	12:01	*E. coli*	CFU/100mL	310	
FAH01	W1836	81-0814	07/15/08	11:32	*E. coli*	CFU/100mL	180	
FAH01	W1836	81-1006	08/12/08	10:38	*E. coli*	CFU/100mL	470	
FAH01	W1836	81-1104	09/02/08	11:15	*E. coli*	CFU/100mL	80	
FAH01	W1836	81-1194	09/16/08	12:05	*E. coli*	CFU/100mL	220	
FAH02	W1837	81-0524	05/15/08	10:08	*E. coli*	CFU/100mL	81	
FAH02	W1837	81-0664	06/12/08	11:15	*E. coli*	CFU/100mL	55	
FAH02	W1837	81-0855	07/17/08	10:10	*E. coli*	CFU/100mL	87	
FAH02	W1837	81-1049	08/14/08	10:25	*E. coli*	CFU/100mL	58	
FAH02	W1837	81-1143	09/04/08	10:50	*E. coli*	CFU/100mL	16	
FAH02	W1837	81-1235	09/18/08	10:30	*E. coli*	CFU/100mL	16	
FAL01	W1825	81-0479	05/13/08	10:45	*E. coli*	CFU/100mL	48	
FAL01	W1825	81-0619	06/10/08	10:44	*E. coli*	CFU/100mL	87	
FAL01	W1825	81-0810	07/15/08	10:33	*E. coli*	CFU/100mL	110	
FAL01	W1825	81-1002	08/12/08	10:31	*E. coli*	CFU/100mL	150	
FAL01	W1825	81-1100	09/02/08	10:08	*E. coli*	CFU/100mL	39	
FAL01	W1825	81-1188	09/16/08	10:49	*E. coli*	CFU/100mL	42	
FAL03	W1826	81-0480	05/13/08	10:58	*E. coli*	CFU/100mL	150	
FAL03	W1826	81-0620	06/10/08	10:59	*E. coli*	CFU/100mL	200	
FAL03	W1826	81-0811	07/15/08	10:49	*E. coli*	CFU/100mL	61	
FAL03	W1826	81-1003	08/12/08	10:42	*E. coli*	CFU/100mL	250	
FAL03	W1826	81-1101	09/02/08	10:25	*E. coli*	CFU/100mL	320	
FAL03	W1826	81-1189	09/16/08	11:02	*E. coli*	CFU/100mL	140	
FCH01	W2066	81-0534	05/22/08	9:40	*E. coli*	CFU/100mL	25	
FCH01	W2066	81-0675	06/19/08	9:35	*E. coli*	CFU/100mL	10	
FCH01	W2066	81-0909	07/24/08	9:40	*E. coli*	CFU/100mL	220	
FCH01	W2066	81-1064	08/21/08	9:25	*E. coli*	CFU/100mL	6	
FCH01	W2066	81-0534	05/22/08	9:40	Ammonia-N	mg/L	0.03	
FCH01	W2066	81-0675	06/19/08	9:35	Ammonia-N	mg/L	0.12	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
FCH01	W2066	81-0909	07/24/08	9:40	Ammonia-N	mg/L	0.10	p
FCH01	W2066	81-1064	08/21/08	9:25	Ammonia-N	mg/L	0.05	
FCH01	W2066	81-0534	05/22/08	9:40	Total Nitrogen	mg/L	0.50	
FCH01	W2066	81-0675	06/19/08	9:35	Total Nitrogen	mg/L	0.89	
FCH01	W2066	81-0909	07/24/08	9:40	Total Nitrogen	mg/L	1.1	h, p
FCH01	W2066	81-1064	08/21/08	9:25	Total Nitrogen	mg/L	0.79	
FCH01	W2066	81-0534	05/22/08	9:40	Total Phosphorus	mg/L	0.030	
FCH01	W2066	81-0675	06/19/08	9:35	Total Phosphorus	mg/L	0.071	
FCH01	W2066	81-0909	07/24/08	9:40	Total Phosphorus	mg/L	0.11	h, p
FCH01	W2066	81-1064	08/21/08	9:25	Total Phosphorus	mg/L	0.054	
FLG03	W1807	81-0518	05/15/08	8:26	*E. coli*	CFU/100mL	24	
FLG03	W1807	81-0658	06/12/08	9:23	*E. coli*	CFU/100mL	45	
FLG03	W1807	81-0849	07/17/08	8:50	*E. coli*	CFU/100mL	19	
FLG03	W1807	81-1043	08/14/08	9:03	*E. coli*	CFU/100mL	61	
FLG03	W1807	81-1137	09/04/08	9:30	*E. coli*	CFU/100mL	35	
FLG03	W1807	81-1229	09/18/08	9:05	*E. coli*	CFU/100mL	32	
GAT25	W1817	81-0535	05/22/08	9:00	*E. coli*	CFU/100mL	10	
GAT25	W1817	81-0671	06/19/08	8:55	*E. coli*	CFU/100mL	13	
GAT25	W1817	81-0905	07/24/08	9:00	*E. coli*	CFU/100mL	1200	
GAT25	W1817	81-1060	08/21/08	8:50	*E. coli*	CFU/100mL	39	
GAT25	W1817	81-0535	05/22/08	9:00	Ammonia-N	mg/L	<0.02	
GAT25	W1817	81-0671	06/19/08	8:55	Ammonia-N	mg/L	<0.02	
GAT25	W1817	81-0905	07/24/08	9:00	Ammonia-N	mg/L	0.03	p
GAT25	W1817	81-1060	08/21/08	8:50	Ammonia-N	mg/L	<0.02	
GAT25	W1817	81-0535	05/22/08	9:00	Total Nitrogen	mg/L	1.2	
GAT25	W1817	81-0671	06/19/08	8:55	Total Nitrogen	mg/L	1.3	
GAT25	W1817	81-0905	07/24/08	9:00	Total Nitrogen	mg/L	0.96	h, p
GAT25	W1817	81-1060	08/21/08	8:50	Total Nitrogen	mg/L	1.3	
GAT25	W1817	81-0535	05/22/08	9:00	Total Phosphorus	mg/L	0.008	
GAT25	W1817	81-0671	06/19/08	8:55	Total Phosphorus	mg/L	0.008	
GAT25	W1817	81-0905	07/24/08	9:00	Total Phosphorus	mg/L	0.062	h, p
GAT25	W1817	81-1060	08/21/08	8:50	Total Phosphorus	mg/L	0.008	
GOV01	W1839	81-0477	05/13/08	9:56	*E. coli*	CFU/100mL	43	
GOV01	W1839	81-0617	06/10/08	10:00	*E. coli*	CFU/100mL	140	
GOV01	W1839	81-0808	07/15/08	9:41	*E. coli*	CFU/100mL	6	
GOV01	W1839	81-1000	08/12/08	9:51	*E. coli*	CFU/100mL	39	
GOV01	W1839	81-1096	09/02/08	9:25	*E. coli*	CFU/100mL	<3	
GOV01	W1839	81-1186	09/16/08	10:03	*E. coli*	CFU/100mL	29	
GROTON	W0497	81-0888	07/16/08	9:50	Ammonia-N	mg/L	0.07	
GROTON	W0497	81-1082	09/03/08	12:20	Ammonia-N	mg/L	0.04	
GROTON	W0497	81-0888	07/16/08	9:50	Nitrate/Nitrite-N	mg/L	1.4	
GROTON	W0497	81-1082	09/03/08	12:20	Nitrate/Nitrite-N	mg/L	0.98	
GROTON	W0497	81-0888	07/16/08	9:50	Total Nitrogen	mg/L	1.9	
GROTON	W0497	81-1082	09/03/08	12:20	Total Nitrogen	mg/L	1.2	
GROTON	W0497	81-0888	07/16/08	9:50	Total Phosphorus	mg/L	0.086	
GROTON	W0497	81-1082	09/03/08	12:20	Total Phosphorus	mg/L	0.035	
GROTON	W0497	81-0888	07/16/08	9:50	Total Reactive Phosphorus	mg/L	0.058	
GROTON	W0497	81-0891	07/16/08	10:00	Chlorophyll a	mg/m3	5.3	d
GROTON	W0497	81-1082	09/03/08	12:20	Total Reactive Phosphorus	mg/L	0.024	h

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
GROTON	W0497	81-1085	09/03/08	12:25	Chlorophyll a	mg/m3	1.5	
GUL01	W1844	81-0492	05/13/08	10:41	*E. coli*	CFU/100mL	10	
GUL01	W1844	81-0632	06/10/08	10:15	*E. coli*	CFU/100mL	73	
GUL01	W1844	81-0823	07/15/08	10:33	*E. coli*	CFU/100mL	55	
GUL01	W1844	81-1015	08/12/08	10:35	*E. coli*	CFU/100mL	77	
GUL01	W1844	81-1113	09/02/08	10:38	*E. coli*	CFU/100mL	58	
GUL01	W1844	81-1203	09/16/08	10:30	*E. coli*	CFU/100mL	61	
JAM01	W1000	81-0510	05/15/08	10:15	*E. coli*	CFU/100mL	62	
JAM01	W1000	81-0650	06/12/08	11:11	*E. coli*	CFU/100mL	200	
JAM01	W1000	81-0841	07/17/08	11:00	*E. coli*	CFU/100mL	220	
JAM01	W1000	81-1035	08/14/08	10:38	*E. coli*	CFU/100mL	58	
JAM01	W1000	81-1131	09/04/08	11:10	*E. coli*	CFU/100mL	110	
JAM01	W1000	81-1221	09/18/08	10:15	*E. coli*	CFU/100mL	58	
JAM01	W1000	81-0510	05/15/08	10:15	Ammonia-N	mg/L	<0.02	
JAM01	W1000	81-0650	06/12/08	11:11	Ammonia-N	mg/L	0.09	
JAM01	W1000	81-0841	07/17/08	11:00	Ammonia-N	mg/L	0.06	
JAM01	W1000	81-1035	08/14/08	10:38	Ammonia-N	mg/L	0.03	
JAM01	W1000	81-1221	09/18/08	10:15	Ammonia-N	mg/L	0.03	
JAM01	W1000	81-0510	05/15/08	10:15	Total Nitrogen	mg/L	0.51	
JAM01	W1000	81-0650	06/12/08	11:11	Total Nitrogen	mg/L	0.73	
JAM01	W1000	81-0841	07/17/08	11:00	Total Nitrogen	mg/L	0.72	
JAM01	W1000	81-1035	08/14/08	10:38	Total Nitrogen	mg/L	0.77	
JAM01	W1000	81-1221	09/18/08	10:15	Total Nitrogen	mg/L	0.66	
JAM01	W1000	81-0510	05/15/08	10:15	Total Phosphorus	mg/L	0.018	
JAM01	W1000	81-0650	06/12/08	11:11	Total Phosphorus	mg/L	0.030	
JAM01	W1000	81-0841	07/17/08	11:00	Total Phosphorus	mg/L	0.025	
JAM01	W1000	81-1035	08/14/08	10:38	Total Phosphorus	mg/L	0.037	
JAM01	W1000	81-1221	09/18/08	10:15	Total Phosphorus	mg/L	0.025	
JAM01	W1000	81-0510	05/15/08	10:15	Turbidity	NTU	2.4	b
JAM01	W1000	81-0650	06/12/08	11:11	Turbidity	NTU	3.5	
JAM01	W1000	81-0841	07/17/08	11:00	Turbidity	NTU	3.1	
JAM01	W1000	81-1035	08/14/08	10:38	Turbidity	NTU	1.8	
JAM01	W1000	81-1221	09/18/08	10:15	Turbidity	NTU	1.4	
JAM01	W1000	81-0510	05/15/08	10:15	True Color	PCU	31	
JAM01	W1000	81-0650	06/12/08	11:11	True Color	PCU	42	
JAM01	W1000	81-0841	07/17/08	11:00	True Color	PCU	58	
JAM01	W1000	81-1035	08/14/08	10:38	True Color	PCU	100	
JAM01	W1000	81-1221	09/18/08	10:15	True Color	PCU	59	
LOC01	W1834	81-0526	05/15/08	10:44	*E. coli*	CFU/100mL	10	
LOC01	W1834	81-0666	06/12/08	11:45	*E. coli*	CFU/100mL	35	
LOC01	W1834	81-1051	08/14/08	10:48	*E. coli*	CFU/100mL	13	
LOC01	W1834	81-1147	09/04/08	11:20	*E. coli*	CFU/100mL	26	
LOC01	W1834	81-1237	09/18/08	11:04	*E. coli*	CFU/100mL	19	
MAG01	W1819	81-0499	05/15/08	7:30	*E. coli*	CFU/100mL	<5.0	
MAG01	W1819	81-0639	06/12/08	8:00	*E. coli*	CFU/100mL	93	
MAG01	W1819	81-0830	07/17/08	7:50	*E. coli*	CFU/100mL	23	
MAG01	W1819	81-1024	08/14/08	7:45	*E. coli*	CFU/100mL	39	
MAG01	W1819	81-1120	09/04/08	8:45	*E. coli*	CFU/100mL	16	
MAG01	W1819	81-1210	09/18/08	7:55	*E. coli*	CFU/100mL	42	
MAG01	W1819	81-0499	05/15/08	7:30	Ammonia-N	mg/L	<0.02	
MAG01	W1819	81-0639	06/12/08	8:00	Ammonia-N	mg/L	<0.02	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
MAG01	W1819	81-0830	07/17/08	7:50	Ammonia-N	mg/L	<0.02	
MAG01	W1819	81-1024	08/14/08	7:45	Ammonia-N	mg/L	0.03	
MAG01	W1819	81-1210	09/18/08	7:55	Ammonia-N	mg/L	0.03	
MAG01	W1819	81-0499	05/15/08	7:30	Total Nitrogen	mg/L	1.1	
MAG01	W1819	81-0639	06/12/08	8:00	Total Nitrogen	mg/L	1.1	
MAG01	W1819	81-0830	07/17/08	7:50	Total Nitrogen	mg/L	1.0	
MAG01	W1819	81-1024	08/14/08	7:45	Total Nitrogen	mg/L	1.5	
MAG01	W1819	81-1210	09/18/08	7:55	Total Nitrogen	mg/L	1.5	
MAG01	W1819	81-0499	05/15/08	7:30	Total Phosphorus	mg/L	0.017	
MAG01	W1819	81-0639	06/12/08	8:00	Total Phosphorus	mg/L	0.014	
MAG01	W1819	81-0830	07/17/08	7:50	Total Phosphorus	mg/L	0.008	
MAG01	W1819	81-1024	08/14/08	7:45	Total Phosphorus	mg/L	0.060	
MAG01	W1819	81-1210	09/18/08	7:55	Total Phosphorus	mg/L	0.044	
MAG01	W1819	81-0499	05/15/08	7:30	Turbidity	NTU	1.9	b
MAG01	W1819	81-0639	06/12/08	8:00	Turbidity	NTU	1.3	
MAG01	W1819	81-0830	07/17/08	7:50	Turbidity	NTU	0.9	
MAG01	W1819	81-1024	08/14/08	7:45	Turbidity	NTU	2.2	
MAG01	W1819	81-1210	09/18/08	7:55	Turbidity	NTU	1.6	
MAG01	W1819	81-0499	05/15/08	7:30	True Color	PCU	140	
MAG01	W1819	81-0639	06/12/08	8:00	True Color	PCU	59	
MAG01	W1819	81-0830	07/17/08	7:50	True Color	PCU	25	
MAG01	W1819	81-1024	08/14/08	7:45	True Color	PCU	390	
MAG01	W1819	81-1210	09/18/08	7:55	True Color	PCU	320	
MAL01	W1818	81-0529	05/22/08	8:46	*E. coli*	CFU/100mL	30	
MAL01	W1818	81-0670	06/19/08	8:40	*E. coli*	CFU/100mL	140	
MAL01	W1818	81-0904	07/24/08	8:45	*E. coli*	CFU/100mL	900	
MAL01	W1818	81-1059	08/21/08	8:35	*E. coli*	CFU/100mL	32	
MAL01	W1818	81-0529	05/22/08	8:46	Ammonia-N	mg/L	0.03	
MAL01	W1818	81-0670	06/19/08	8:40	Ammonia-N	mg/L	0.06	
MAL01	W1818	81-0904	07/24/08	8:45	Ammonia-N	mg/L	0.03	p
MAL01	W1818	81-1059	08/21/08	8:35	Ammonia-N	mg/L	0.02	
MAL01	W1818	81-0529	05/22/08	8:46	Total Nitrogen	mg/L	0.64	
MAL01	W1818	81-0670	06/19/08	8:40	Total Nitrogen	mg/L	0.73	
MAL01	W1818	81-0904	07/24/08	8:45	Total Nitrogen	mg/L	0.81	h, p
MAL01	W1818	81-1059	08/21/08	8:35	Total Nitrogen	mg/L	0.66	
MAL01	W1818	81-0529	05/22/08	8:46	Total Phosphorus	mg/L	0.016	
MAL01	W1818	81-0670	06/19/08	8:40	Total Phosphorus	mg/L	0.017	
MAL01	W1818	81-0904	07/24/08	8:45	Total Phosphorus	mg/L	0.046	h, p
MAL01	W1818	81-1059	08/21/08	8:35	Total Phosphorus	mg/L	0.018	
MON01	W1810	81-0482	05/13/08	11:45	*E. coli*	CFU/100mL	5	
MON01	W1810	81-0622	06/10/08	11:40	*E. coli*	CFU/100mL	120	
MON01	W1810	81-0813	07/15/08	11:12	*E. coli*	CFU/100mL	360	
MON01	W1810	81-1005	08/12/08	10:19	*E. coli*	CFU/100mL	550	
MON01	W1810	81-1103	09/02/08	10:53	*E. coli*	CFU/100mL	65	
MON01	W1810	81-1193	09/16/08	11:46	*E. coli*	CFU/100mL	61	
MONOO	W0994	81-0481	05/13/08	11:12	*E. coli*	CFU/100mL	24	
MONOO	W0994	81-0621	06/10/08	11:20	*E. coli*	CFU/100mL	340	
MONOO	W0994	81-0812	07/15/08	10:58	*E. coli*	CFU/100mL	140	
MONOO	W0994	81-1004	08/12/08	10:56	*E. coli*	CFU/100mL	1000	
MONOO	W0994	81-1102	09/02/08	10:35	*E. coli*	CFU/100mL	530	
MONOO	W0994	81-1191	09/16/08	11:25	*E. coli*	CFU/100mL	400	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
MONOO	W0994	81-1192	09/16/08	11:27	*E. coli*	CFU/100mL	370	
MONOO	W0994	81-1190	09/16/08	11:28	*E. coli*	CFU/100mL	400	
MPB02	W1824	81-0486	05/13/08	8:29	*E. coli*	CFU/100mL	57	
MPB02	W1824	81-0626	06/10/08	8:28	*E. coli*	CFU/100mL	26	
MPB02	W1824	81-0817	07/15/08	8:40	*E. coli*	CFU/100mL	13	
MPB02	W1824	81-1009	08/12/08	9:00	*E. coli*	CFU/100mL	73	
MPB02	W1824	81-1107	09/02/08	8:44	*E. coli*	CFU/100mL	6	
MPB02	W1824	81-1197	09/16/08	8:50	*E. coli*	CFU/100mL	950	
MPB03	W0998	81-0512	05/15/08	10:43	*E. coli*	CFU/100mL	280	
MPB03	W0998	81-0652	06/12/08	11:40	*E. coli*	CFU/100mL	32	
MPB03	W0998	81-0843	07/17/08	11:30	*E. coli*	CFU/100mL	10	
MPB03	W0998	81-1037	08/14/08	11:08	*E. coli*	CFU/100mL	93	
MPB03	W0998	81-1133	09/04/08	11:35	*E. coli*	CFU/100mL	35	
MPB03	W0998	81-1223	09/18/08	10:37	*E. coli*	CFU/100mL	93	
MPB03	W0998	81-0512	05/15/08	10:43	Ammonia-N	mg/L	<0.02	
MPB03	W0998	81-0652	06/12/08	11:40	Ammonia-N	mg/L	0.06	
MPB03	W0998	81-0843	07/17/08	11:30	Ammonia-N	mg/L	0.02	
MPB03	W0998	81-1037	08/14/08	11:08	Ammonia-N	mg/L	<0.02	
MPB03	W0998	81-1223	09/18/08	10:37	Ammonia-N	mg/L	<0.02	
MPB03	W0998	81-0512	05/15/08	10:43	Total Nitrogen	mg/L	0.36	
MPB03	W0998	81-0652	06/12/08	11:40	Total Nitrogen	mg/L	0.57	
MPB03	W0998	81-0843	07/17/08	11:30	Total Nitrogen	mg/L	0.51	
MPB03	W0998	81-1037	08/14/08	11:08	Total Nitrogen	mg/L	0.33	
MPB03	W0998	81-1223	09/18/08	10:37	Total Nitrogen	mg/L	0.39	
MPB03	W0998	81-0512	05/15/08	10:43	Total Phosphorus	mg/L	0.013	
MPB03	W0998	81-0652	06/12/08	11:40	Total Phosphorus	mg/L	0.022	
MPB03	W0998	81-0843	07/17/08	11:30	Total Phosphorus	mg/L	0.015	
MPB03	W0998	81-1037	08/14/08	11:08	Total Phosphorus	mg/L	0.013	
MPB03	W0998	81-1223	09/18/08	10:37	Total Phosphorus	mg/L	0.014	
MPB03	W0998	81-0512	05/15/08	10:43	Turbidity	NTU	1.4	b
MPB03	W0998	81-0652	06/12/08	11:40	Turbidity	NTU	2.0	
MPB03	W0998	81-0843	07/17/08	11:30	Turbidity	NTU	1.8	
MPB03	W0998	81-1037	08/14/08	11:08	Turbidity	NTU	1.3	
MPB03	W0998	81-1223	09/18/08	10:37	Turbidity	NTU	1.2	
MPB03	W0998	81-0512	05/15/08	10:43	True Color	PCU	21	
MPB03	W0998	81-0652	06/12/08	11:40	True Color	PCU	51	
MPB03	W0998	81-0843	07/17/08	11:30	True Color	PCU	45	
MPB03	W0998	81-1037	08/14/08	11:08	True Color	PCU	44	
MPB03	W0998	81-1223	09/18/08	10:37	True Color	PCU	48	
MUD01	W2067	81-0530	05/22/08	9:22	*E. coli*	CFU/100mL	23	
MUD01	W2067	81-0674	06/19/08	9:15	*E. coli*	CFU/100mL	29	
MUD01	W2067	81-0908	07/24/08	9:25	*E. coli*	CFU/100mL	93	
MUD01	W2067	81-1063	08/21/08	9:10	*E. coli*	CFU/100mL	23	
MUD01	W2067	81-0530	05/22/08	9:22	Ammonia-N	mg/L	0.05	
MUD01	W2067	81-0674	06/19/08	9:15	Ammonia-N	mg/L	0.08	
MUD01	W2067	81-0908	07/24/08	9:25	Ammonia-N	mg/L	0.09	p
MUD01	W2067	81-1063	08/21/08	9:10	Ammonia-N	mg/L	0.11	
MUD01	W2067	81-0530	05/22/08	9:22	Total Nitrogen	mg/L	0.23	
MUD01	W2067	81-0674	06/19/08	9:15	Total Nitrogen	mg/L	0.36	
MUD01	W2067	81-0908	07/24/08	9:25	Total Nitrogen	mg/L	0.37	h, p
MUD01	W2067	81-1063	08/21/08	9:10	Total Nitrogen	mg/L	0.35	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
MUD01	W2067	81-0530	05/22/08	9:22	Total Phosphorus	mg/L	0.009	
MUD01	W2067	81-0674	06/19/08	9:15	Total Phosphorus	mg/L	0.011	
MUD01	W2067	81-0908	07/24/08	9:25	Total Phosphorus	mg/L	0.015	h, p
MUD01	W2067	81-1063	08/21/08	9:10	Total Phosphorus	mg/L	0.012	
MUL01	W1823	81-0488	05/13/08	9:09	*E. coli*	CFU/100mL	<5.0	
MUL01	W1823	81-0628	06/10/08	9:00	*E. coli*	CFU/100mL	26	
MUL01	W1823	81-0819	07/15/08	9:15	*E. coli*	CFU/100mL	6	
MUL01	W1823	81-1011	08/12/08	9:30	*E. coli*	CFU/100mL	170	
MUL01	W1823	81-1109	09/02/08	9:19	*E. coli*	CFU/100mL	19	
MUL01	W1823	81-1199	09/16/08	9:23	*E. coli*	CFU/100mL	87	
MUL01	W1823	81-0488	05/13/08	9:09	Ammonia-N	mg/L	<0.02	
MUL01	W1823	81-0628	06/10/08	9:00	Ammonia-N	mg/L	0.05	
MUL01	W1823	81-0819	07/15/08	9:15	Ammonia-N	mg/L	<0.02	
MUL01	W1823	81-1011	08/12/08	9:30	Ammonia-N	mg/L	0.02	
MUL01	W1823	81-1199	09/16/08	9:23	Ammonia-N	mg/L	0.02	
MUL01	W1823	81-0488	05/13/08	9:09	Total Nitrogen	mg/L	0.47	
MUL01	W1823	81-0628	06/10/08	9:00	Total Nitrogen	mg/L	0.60	
MUL01	W1823	81-0819	07/15/08	9:15	Total Nitrogen	mg/L	0.45	
MUL01	W1823	81-1011	08/12/08	9:30	Total Nitrogen	mg/L	0.49	
MUL01	W1823	81-1199	09/16/08	9:23	Total Nitrogen	mg/L	0.52	
MUL01	W1823	81-0488	05/13/08	9:09	Total Phosphorus	mg/L	0.007	
MUL01	W1823	81-0628	06/10/08	9:00	Total Phosphorus	mg/L	0.015	
MUL01	W1823	81-0819	07/15/08	9:15	Total Phosphorus	mg/L	<0.005	
MUL01	W1823	81-1011	08/12/08	9:30	Total Phosphorus	mg/L	0.016	
MUL01	W1823	81-1199	09/16/08	9:23	Total Phosphorus	mg/L	0.011	
MUL01	W1823	81-0488	05/13/08	9:09	Turbidity	NTU	0.6	
MUL01	W1823	81-0628	06/10/08	9:00	Turbidity	NTU	2.1	b
MUL01	W1823	81-0819	07/15/08	9:15	Turbidity	NTU	0.8	
MUL01	W1823	81-1011	08/12/08	9:30	Turbidity	NTU	2.1	
MUL01	W1823	81-1199	09/16/08	9:23	Turbidity	NTU	1.5	
MUL01	W1823	81-0488	05/13/08	9:09	True Color	PCU	18	
MUL01	W1823	81-0628	06/10/08	9:00	True Color	PCU	<15	
MUL01	W1823	81-0819	07/15/08	9:15	True Color	PCU	<15	
MUL01	W1823	81-1011	08/12/08	9:30	True Color	PCU	43	
MUL01	W1823	81-1199	09/16/08	9:23	True Color	PCU	34	
MUS01	W1840	81-0474	05/13/08	9:07	*E. coli*	CFU/100mL	<5.0	
MUS01	W1840	81-0614	06/10/08	9:30	*E. coli*	CFU/100mL	10	
MUS01	W1840	81-0805	07/15/08	9:16	*E. coli*	CFU/100mL	23	
MUS01	W1840	81-0997	08/12/08	9:16	*E. coli*	CFU/100mL	55	
MUS01	W1840	81-1093	09/02/08	8:45	*E. coli*	CFU/100mL	26	
MUS01	W1840	81-1183	09/16/08	9:15	*E. coli*	CFU/100mL	29	
NAS02	W1806	81-0494	05/13/08	11:20	*E. coli*	CFU/100mL	24	d
NAS02	W1806	81-0634	06/10/08	10:45	*E. coli*	CFU/100mL	32	
NAS02	W1806	81-0825	07/15/08	11:05	*E. coli*	CFU/100mL	23	
NAS02	W1806	81-1017	08/12/08	11:15	*E. coli*	CFU/100mL	510	
NAS02	W1806	81-1117	09/02/08	11:15	*E. coli*	CFU/100mL	23	
NAS02	W1806	81-1205	09/16/08	11:00	*E. coli*	CFU/100mL	42	
NAS02	W1806	81-0494	05/13/08	11:20	Ammonia-N	mg/L	0.07	
NAS02	W1806	81-0634	06/10/08	10:45	Ammonia-N	mg/L	0.07	
NAS02	W1806	81-0825	07/15/08	11:05	Ammonia-N	mg/L	0.02	
NAS02	W1806	81-1017	08/12/08	11:15	Ammonia-N	mg/L	0.03	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
NAS02	W1806	81-1205	09/16/08	11:00	Ammonia-N	mg/L	0.05	
NAS02	W1806	81-0494	05/13/08	11:20	Nitrate/Nitrite-N	mg/L	0.55	
NAS02	W1806	81-0634	06/10/08	10:45	Nitrate/Nitrite-N	mg/L	0.95	
NAS02	W1806	81-0825	07/15/08	11:05	Nitrate/Nitrite-N	mg/L	0.58	
NAS02	W1806	81-1017	08/12/08	11:15	Nitrate/Nitrite-N	mg/L	0.40	
NAS02	W1806	81-1205	09/16/08	11:00	Nitrate/Nitrite-N	mg/L	0.60	a
NAS02	W1806	81-0494	05/13/08	11:20	Total Nitrogen	mg/L	0.89	
NAS02	W1806	81-0634	06/10/08	10:45	Total Nitrogen	mg/L	1.4	
NAS02	W1806	81-0825	07/15/08	11:05	Total Nitrogen	mg/L	0.93	
NAS02	W1806	81-1017	08/12/08	11:15	Total Nitrogen	mg/L	0.70	
NAS02	W1806	81-1205	09/16/08	11:00	Total Nitrogen	mg/L	0.89	
NAS02	W1806	81-0494	05/13/08	11:20	Total Phosphorus	mg/L	0.032	
NAS02	W1806	81-0634	06/10/08	10:45	Total Phosphorus	mg/L	0.040	
NAS02	W1806	81-0825	07/15/08	11:05	Total Phosphorus	mg/L	0.037	
NAS02	W1806	81-1017	08/12/08	11:15	Total Phosphorus	mg/L	0.051	
NAS02	W1806	81-1205	09/16/08	11:00	Total Phosphorus	mg/L	0.033	
NAS02	W1806	81-0494	05/13/08	11:20	Dissolved Reactive Phosphorus	mg/L	0.008	h
NAS02	W1806	81-0634	06/10/08	10:45	Dissolved Reactive Phosphorus	mg/L	0.014	
NAS02	W1806	81-0825	07/15/08	11:05	Dissolved Reactive Phosphorus	mg/L	0.013	h
NAS02	W1806	81-1017	08/12/08	11:15	Dissolved Reactive Phosphorus	mg/L	0.016	h
NAS02	W1806	81-1205	09/16/08	11:00	Dissolved Reactive Phosphorus	mg/L	0.015	h
NAS02	W1806	81-0494	05/13/08	11:20	Turbidity	NTU	1.9	
NAS02	W1806	81-0634	06/10/08	10:45	Turbidity	NTU	1.2	b
NAS02	W1806	81-0825	07/15/08	11:05	Turbidity	NTU	1.1	
NAS02	W1806	81-1017	08/12/08	11:15	Turbidity	NTU	3.7	
NAS02	W1806	81-1205	09/16/08	11:00	Turbidity	NTU	1.8	
NAS02	W1806	81-0494	05/13/08	11:20	True Color	PCU	22	
NAS02	W1806	81-0634	06/10/08	10:45	True Color	PCU	<15	
NAS02	W1806	81-0825	07/15/08	11:05	True Color	PCU	24	
NAS02	W1806	81-1017	08/12/08	11:15	True Color	PCU	33	
NAS02	W1806	81-1205	09/16/08	11:00	True Color	PCU	35	
NIS02	W1815	81-0493	05/13/08	10:51	*E. coli*	CFU/100mL	33	
NIS02	W1815	81-0633	06/10/08	10:25	*E. coli*	CFU/100mL	170	
NIS02	W1815	81-0824	07/15/08	10:45	*E. coli*	CFU/100mL	170	
NIS02	W1815	81-1016	08/12/08	10:50	*E. coli*	CFU/100mL	310	
NIS02	W1815	81-1114	09/02/08	10:55	*E. coli*	CFU/100mL	160	
NIS02	W1815	81-1204	09/16/08	10:45	*E. coli*	CFU/100mL	100	
NM21	W0484	81-0506	05/15/08	8:58	*E. coli*	CFU/100mL	38	
NM21	W0484	81-0646	06/12/08	10:00	*E. coli*	CFU/100mL	52	
NM21	W0484	81-0837	07/17/08	9:47	*E. coli*	CFU/100mL	240	
NM21	W0484	81-1031	08/14/08	9:24	*E. coli*	CFU/100mL	300	
NM21	W0484	81-1125	09/04/08	10:12	*E. coli*	CFU/100mL	200	
NM21	W0484	81-1217	09/18/08	9:23	*E. coli*	CFU/100mL	280	
NM21	W0484	81-0506	05/15/08	8:58	Ammonia-N	mg/L	0.32	
NM21	W0484	81-0646	06/12/08	10:00	Ammonia-N	mg/L	0.40	
NM21	W0484	81-0837	07/17/08	9:47	Ammonia-N	mg/L	0.05	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
NM21	W0484	81-1031	08/14/08	9:24	Ammonia-N	mg/L	0.04	
NM21	W0484	81-1217	09/18/08	9:23	Ammonia-N	mg/L	0.06	
NM21	W0484	81-0506	05/15/08	8:58	Nitrate/Nitrite-N	mg/L	1.2	
NM21	W0484	81-0646	06/12/08	10:00	Nitrate/Nitrite-N	mg/L	1.7	
NM21	W0484	81-0837	07/17/08	9:47	Nitrate/Nitrite-N	mg/L	1.0	
NM21	W0484	81-1031	08/14/08	9:24	Nitrate/Nitrite-N	mg/L	0.56	
NM21	W0484	81-1217	09/18/08	9:23	Nitrate/Nitrite-N	mg/L	1.2	a
NM21	W0484	81-0506	05/15/08	8:58	Total Nitrogen	mg/L	1.9	
NM21	W0484	81-0646	06/12/08	10:00	Total Nitrogen	mg/L	2.5	
NM21	W0484	81-0837	07/17/08	9:47	Total Nitrogen	mg/L	1.3	
NM21	W0484	81-1031	08/14/08	9:24	Total Nitrogen	mg/L	0.96	
NM21	W0484	81-1217	09/18/08	9:23	Total Nitrogen	mg/L	1.5	
NM21	W0484	81-0506	05/15/08	8:58	Total Phosphorus	mg/L	0.080	
NM21	W0484	81-0646	06/12/08	10:00	Total Phosphorus	mg/L	0.23	
NM21	W0484	81-0837	07/17/08	9:47	Total Phosphorus	mg/L	0.12	
NM21	W0484	81-1031	08/14/08	9:24	Total Phosphorus	mg/L	0.071	
NM21	W0484	81-1217	09/18/08	9:23	Total Phosphorus	mg/L	0.057	
NM21	W0484	81-0506	05/15/08	8:58	Dissolved Reactive Phosphorus	mg/L	0.022	
NM21	W0484	81-0646	06/12/08	10:00	Dissolved Reactive Phosphorus	mg/L	0.14	
NM21	W0484	81-0837	07/17/08	9:47	Dissolved Reactive Phosphorus	mg/L	0.043	
NM21	W0484	81-1031	08/14/08	9:24	Dissolved Reactive Phosphorus	mg/L	0.015	
NM21	W0484	81-1217	09/18/08	9:23	Dissolved Reactive Phosphorus	mg/L	0.020	
NM21	W0484	81-0506	05/15/08	8:58	Turbidity	NTU	2.7	b
NM21	W0484	81-0646	06/12/08	10:00	Turbidity	NTU	3.7	
NM21	W0484	81-0837	07/17/08	9:47	Turbidity	NTU	5.2	
NM21	W0484	81-1031	08/14/08	9:24	Turbidity	NTU	5.2	
NM21	W0484	81-1217	09/18/08	9:23	Turbidity	NTU	3.5	
NM21	W0484	81-0506	05/15/08	8:58	True Color	PCU	<15	
NM21	W0484	81-0646	06/12/08	10:00	True Color	PCU	18	
NM21	W0484	81-0837	07/17/08	9:47	True Color	PCU	28	
NM21	W0484	81-1031	08/14/08	9:24	True Color	PCU	36	
NM21	W0484	81-1217	09/18/08	9:23	True Color	PCU	22	
NM21	W0484	81-0506	05/15/08	8:58	Hardness	mg/L	40	
NM21	W0484	81-0837	07/17/08	9:47	Hardness	mg/L	32	
NM25	W0488	81-0511	05/15/08	10:25	*E. coli*	CFU/100mL	33	
NM25	W0488	81-0651	06/12/08	11:28	*E. coli*	CFU/100mL	67	
NM25	W0488	81-0842	07/17/08	11:15	*E. coli*	CFU/100mL	39	
NM25	W0488	81-1036	08/14/08	10:49	*E. coli*	CFU/100mL	250	
NM25	W0488	81-1132	09/04/08	11:25	*E. coli*	CFU/100mL	16	
NM25	W0488	81-1222	09/18/08	10:30	*E. coli*	CFU/100mL	93	
NM25	W0488	81-0511	05/15/08	10:25	Ammonia-N	mg/L	0.17	
NM25	W0488	81-0651	06/12/08	11:28	Ammonia-N	mg/L	0.14	
NM25	W0488	81-0842	07/17/08	11:15	Ammonia-N	mg/L	0.05	
NM25	W0488	81-1036	08/14/08	10:49	Ammonia-N	mg/L	0.04	
NM25	W0488	81-1222	09/18/08	10:30	Ammonia-N	mg/L	0.10	
NM25	W0488	81-0511	05/15/08	10:25	Nitrate/Nitrite-N	mg/L	0.95	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
NM25	W0488	81-0651	06/12/08	11:28	Nitrate/Nitrite-N	mg/L	1.0	
NM25	W0488	81-0842	07/17/08	11:15	Nitrate/Nitrite-N	mg/L	0.87	
NM25	W0488	81-1036	08/14/08	10:49	Nitrate/Nitrite-N	mg/L	0.39	
NM25	W0488	81-1222	09/18/08	10:30	Nitrate/Nitrite-N	mg/L	0.68	a
NM25	W0488	81-0511	05/15/08	10:25	Total Nitrogen	mg/L	1.4	
NM25	W0488	81-0651	06/12/08	11:28	Total Nitrogen	mg/L	1.5	
NM25	W0488	81-0842	07/17/08	11:15	Total Nitrogen	mg/L	1.2	
NM25	W0488	81-1036	08/14/08	10:49	Total Nitrogen	mg/L	0.76	
NM25	W0488	81-1222	09/18/08	10:30	Total Nitrogen	mg/L	1.1	
NM25	W0488	81-0511	05/15/08	10:25	Total Phosphorus	mg/L	0.056	
NM25	W0488	81-0651	06/12/08	11:28	Total Phosphorus	mg/L	0.086	
NM25	W0488	81-0842	07/17/08	11:15	Total Phosphorus	mg/L	0.086	
NM25	W0488	81-1036	08/14/08	10:49	Total Phosphorus	mg/L	0.058	
NM25	W0488	81-1222	09/18/08	10:30	Total Phosphorus	mg/L	0.056	
NM25	W0488	81-0511	05/15/08	10:25	Dissolved Reactive Phosphorus	mg/L	0.016	
NM25	W0488	81-0651	06/12/08	11:28	Dissolved Reactive Phosphorus	mg/L	0.040	
NM25	W0488	81-0842	07/17/08	11:15	Dissolved Reactive Phosphorus	mg/L	0.040	
NM25	W0488	81-1036	08/14/08	10:49	Dissolved Reactive Phosphorus	mg/L	0.016	
NM25	W0488	81-1222	09/18/08	10:30	Dissolved Reactive Phosphorus	mg/L	0.022	
NM25	W0488	81-0511	05/15/08	10:25	Turbidity	NTU	2.3	b
NM25	W0488	81-0651	06/12/08	11:28	Turbidity	NTU	1.7	
NM25	W0488	81-0842	07/17/08	11:15	Turbidity	NTU	2.6	
NM25	W0488	81-1036	08/14/08	10:49	Turbidity	NTU	4.6	
NM25	W0488	81-1222	09/18/08	10:30	Turbidity	NTU	2.8	
NM25	W0488	81-0511	05/15/08	10:25	True Color	PCU	<15	
NM25	W0488	81-0651	06/12/08	11:28	True Color	PCU	22	
NM25	W0488	81-0842	07/17/08	11:15	True Color	PCU	27	
NM25	W0488	81-1036	08/14/08	10:49	True Color	PCU	44	
NM25	W0488	81-1222	09/18/08	10:30	True Color	PCU	26	
NM27	W0496	81-1091	09/03/08	14:25	Ammonia-N	mg/L	0.04	
NM27	W0496	81-1091	09/03/08	14:25	Nitrate/Nitrite-N	mg/L	0.93	
NM27	W0496	81-1091	09/03/08	14:25	Total Nitrogen	mg/L	1.3	
NM27	W0496	81-1091	09/03/08	14:25	Total Phosphorus	mg/L	0.042	
NM27	W0496	81-1091	09/03/08	14:25	Total Reactive Phosphorus	mg/L	0.028	
NN08	W2069	81-1245	10/01/08	9:10	Ammonia-N	mg/L	0.04	
NN08	W2069	81-1255	10/03/08	9:25	Ammonia-N	mg/L	0.05	
NN08	W2069	81-1265	10/07/08	8:50	Ammonia-N	mg/L	0.06	
NN08	W2069	81-1275	11/12/08	9:30	Ammonia-N	mg/L	0.04	
NN08	W2069	81-1286	11/14/08	9:22	Ammonia-N	mg/L	0.04	
NN08	W2069	81-1296	11/18/08	9:20	Ammonia-N	mg/L	0.02	
NN08	W2069	81-0721	06/23/08	11:20	Hardness	mg/L as CaCO3	42	
NN08	W2069	81-0915	08/19/08	10:30	Hardness	mg/L as CaCO3	32	
NN08	W2069	81-1245	10/01/08	9:10	Hardness	mg/L as CaCO3	24	
NN08	W2069	81-1255	10/03/08	9:25	Hardness	mg/L as CaCO3	28	
NN08	W2069	81-1265	10/07/08	8:50	Hardness	mg/L as CaCO3	29	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
NN08	W2069	81-1275	11/12/08	9:30	Hardness	mg/L as CaCO3	33	
NN08	W2069	81-1286	11/14/08	9:22	Hardness	mg/L as CaCO3	33	
NN08	W2069	81-1296	11/18/08	9:20	Hardness	mg/L as CaCO3	25	
NN08	W2069	81-0721	06/23/08	11:20	Aluminum - Dissolved	µg/L	<20	
NN08	W2069	81-0915	08/19/08	10:30	Aluminum - Dissolved	µg/L	<50	
NN08	W2069	81-1245	10/01/08	9:10	Aluminum - Dissolved	µg/L	<50	
NN08	W2069	81-1255	10/03/08	9:25	Aluminum - Dissolved	µg/L	<50	
NN08	W2069	81-1265	10/07/08	8:50	Aluminum - Dissolved	µg/L	<50	
NN08	W2069	81-1275	11/12/08	9:30	Aluminum - Dissolved	µg/L	<50	
NN08	W2069	81-1286	11/14/08	9:22	Aluminum - Dissolved	µg/L	<50	
NN08	W2069	81-1296	11/18/08	9:20	Aluminum - Dissolved	µg/L	56	
NN08	W2069	81-0721	06/23/08	11:20	Antimony - Dissolved	µg/L	0.27	
NN08	W2069	81-0915	08/19/08	10:30	Antimony - Dissolved	µg/L	0.20	
NN08	W2069	81-1245	10/01/08	9:10	Antimony - Dissolved	µg/L	0.22	
NN08	W2069	81-1255	10/03/08	9:25	Antimony - Dissolved	µg/L	0.19	
NN08	W2069	81-1265	10/07/08	8:50	Antimony - Dissolved	µg/L	0.18	
NN08	W2069	81-1275	11/12/08	9:30	Antimony - Dissolved	µg/L	0.20	
NN08	W2069	81-1286	11/14/08	9:22	Antimony - Dissolved	µg/L	0.15	d
NN08	W2069	81-1296	11/18/08	9:20	Antimony - Dissolved	µg/L	<0.15	
NN08	W2069	81-0721	06/23/08	11:20	Arsenic - Dissolved	µg/L	1.4	
NN08	W2069	81-0915	08/19/08	10:30	Arsenic - Dissolved	µg/L	1.3	
NN08	W2069	81-1245	10/01/08	9:10	Arsenic - Dissolved	µg/L	0.89	
NN08	W2069	81-1255	10/03/08	9:25	Arsenic - Dissolved	µg/L	1.2	
NN08	W2069	81-1265	10/07/08	8:50	Arsenic - Dissolved	µg/L	1.2	
NN08	W2069	81-1275	11/12/08	9:30	Arsenic - Dissolved	µg/L	1.1	
NN08	W2069	81-1286	11/14/08	9:22	Arsenic - Dissolved	µg/L	1.0	
NN08	W2069	81-1296	11/18/08	9:20	Arsenic - Dissolved	µg/L	0.99	
NN08	W2069	81-0721	06/23/08	11:20	Beryllium - Dissolved	µg/L	<0.20	
NN08	W2069	81-0915	08/19/08	10:30	Beryllium - Dissolved	µg/L	<0.20	
NN08	W2069	81-1245	10/01/08	9:10	Beryllium - Dissolved	µg/L	<0.20	
NN08	W2069	81-1255	10/03/08	9:25	Beryllium - Dissolved	µg/L	<0.20	
NN08	W2069	81-1265	10/07/08	8:50	Beryllium - Dissolved	µg/L	<0.20	
NN08	W2069	81-1275	11/12/08	9:30	Beryllium - Dissolved	µg/L	<0.20	
NN08	W2069	81-1286	11/14/08	9:22	Beryllium - Dissolved	µg/L	<0.20	
NN08	W2069	81-1296	11/18/08	9:20	Beryllium - Dissolved	µg/L	<0.20	
NN08	W2069	81-0721	06/23/08	11:20	Cadmium - Dissolved	µg/L	<0.13	
NN08	W2069	81-0915	08/19/08	10:30	Cadmium - Dissolved	µg/L	<0.13	
NN08	W2069	81-1245	10/01/08	9:10	Cadmium - Dissolved	µg/L	<0.13	
NN08	W2069	81-1255	10/03/08	9:25	Cadmium - Dissolved	µg/L	<0.13	
NN08	W2069	81-1265	10/07/08	8:50	Cadmium - Dissolved	µg/L	<0.13	
NN08	W2069	81-1275	11/12/08	9:30	Cadmium - Dissolved	µg/L	<0.13	
NN08	W2069	81-1286	11/14/08	9:22	Cadmium - Dissolved	µg/L	<0.13	
NN08	W2069	81-1296	11/18/08	9:20	Cadmium - Dissolved	µg/L	<0.13	
NN08	W2069	81-0721	06/23/08	11:20	Calcium - Dissolved	mg/L	14	
NN08	W2069	81-0915	08/19/08	10:30	Calcium - Dissolved	mg/L	10.0	
NN08	W2069	81-1245	10/01/08	9:10	Calcium - Dissolved	mg/L	7.5	
NN08	W2069	81-1255	10/03/08	9:25	Calcium - Dissolved	mg/L	8.8	
NN08	W2069	81-1265	10/07/08	8:50	Calcium - Dissolved	mg/L	9.1	
NN08	W2069	81-1275	11/12/08	9:30	Calcium - Dissolved	mg/L	11	
NN08	W2069	81-1286	11/14/08	9:22	Calcium - Dissolved	mg/L	11	
NN08	W2069	81-1296	11/18/08	9:20	Calcium - Dissolved	mg/L	7.8	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
NN08	W2069	81-0721	06/23/08	11:20	Chromium - Dissolved	µg/L	<0.22	
NN08	W2069	81-0915	08/19/08	10:30	Chromium - Dissolved	µg/L	0.29	d
NN08	W2069	81-1245	10/01/08	9:10	Chromium - Dissolved	µg/L	0.35	
NN08	W2069	81-1255	10/03/08	9:25	Chromium - Dissolved	µg/L	<0.22	
NN08	W2069	81-1265	10/07/08	8:50	Chromium - Dissolved	µg/L	<0.22	
NN08	W2069	81-1275	11/12/08	9:30	Chromium - Dissolved	µg/L	<0.22	
NN08	W2069	81-1286	11/14/08	9:22	Chromium - Dissolved	µg/L	<0.22	
NN08	W2069	81-1296	11/18/08	9:20	Chromium - Dissolved	µg/L	<0.22	
NN08	W2069	81-0721	06/23/08	11:20	Copper - Dissolved	µg/L	2.9	
NN08	W2069	81-0915	08/19/08	10:30	Copper - Dissolved	µg/L	2.3	
NN08	W2069	81-1245	10/01/08	9:10	Copper - Dissolved	µg/L	1.8	
NN08	W2069	81-1255	10/03/08	9:25	Copper - Dissolved	µg/L	2.3	
NN08	W2069	81-1265	10/07/08	8:50	Copper - Dissolved	µg/L	1.9	d
NN08	W2069	81-1275	11/12/08	9:30	Copper - Dissolved	µg/L	2.4	a, b, d
NN08	W2069	81-1286	11/14/08	9:22	Copper - Dissolved	µg/L	1.7	
NN08	W2069	81-1296	11/18/08	9:20	Copper - Dissolved	µg/L	1.5	
NN08	W2069	81-0721	06/23/08	11:20	Lead - Dissolved	µg/L	0.63	
NN08	W2069	81-0915	08/19/08	10:30	Lead - Dissolved	µg/L	0.61	
NN08	W2069	81-1245	10/01/08	9:10	Lead - Dissolved	µg/L	0.46	
NN08	W2069	81-1255	10/03/08	9:25	Lead - Dissolved	µg/L	0.42	
NN08	W2069	81-1265	10/07/08	8:50	Lead - Dissolved	µg/L	0.38	
NN08	W2069	81-1275	11/12/08	9:30	Lead - Dissolved	µg/L	0.30	
NN08	W2069	81-1286	11/14/08	9:22	Lead - Dissolved	µg/L	0.33	
NN08	W2069	81-1296	11/18/08	9:20	Lead - Dissolved	µg/L	0.33	
NN08	W2069	81-0721	06/23/08	11:20	Magnesium - Dissolved	mg/L	1.9	
NN08	W2069	81-0915	08/19/08	10:30	Magnesium - Dissolved	mg/L	1.5	
NN08	W2069	81-1245	10/01/08	9:10	Magnesium - Dissolved	mg/L	1.2	
NN08	W2069	81-1255	10/03/08	9:25	Magnesium - Dissolved	mg/L	1.4	
NN08	W2069	81-1265	10/07/08	8:50	Magnesium - Dissolved	mg/L	1.5	
NN08	W2069	81-1275	11/12/08	9:30	Magnesium - Dissolved	mg/L	1.6	
NN08	W2069	81-1286	11/14/08	9:22	Magnesium - Dissolved	mg/L	1.6	
NN08	W2069	81-1296	11/18/08	9:20	Magnesium - Dissolved	mg/L	1.4	
NN08	W2069	81-0721	06/23/08	11:20	Nickel - Dissolved	µg/L	1.6	
NN08	W2069	81-0915	08/19/08	10:30	Nickel - Dissolved	µg/L	1.3	
NN08	W2069	81-1245	10/01/08	9:10	Nickel - Dissolved	µg/L	1.1	
NN08	W2069	81-1255	10/03/08	9:25	Nickel - Dissolved	µg/L	1.0	
NN08	W2069	81-1265	10/07/08	8:50	Nickel - Dissolved	µg/L	1.0	
NN08	W2069	81-1275	11/12/08	9:30	Nickel - Dissolved	µg/L	1.0	
NN08	W2069	81-1286	11/14/08	9:22	Nickel - Dissolved	µg/L	0.91	
NN08	W2069	81-1296	11/18/08	9:20	Nickel - Dissolved	µg/L	0.81	
NN08	W2069	81-0721	06/23/08	11:20	Selenium - Dissolved	µg/L	<2.6	
NN08	W2069	81-0915	08/19/08	10:30	Selenium - Dissolved	µg/L	<2.6	
NN08	W2069	81-1245	10/01/08	9:10	Selenium - Dissolved	µg/L	<2.6	
NN08	W2069	81-1255	10/03/08	9:25	Selenium - Dissolved	µg/L	<2.6	
NN08	W2069	81-1265	10/07/08	8:50	Selenium - Dissolved	µg/L	<2.6	
NN08	W2069	81-1275	11/12/08	9:30	Selenium - Dissolved	µg/L	<2.6	
NN08	W2069	81-1286	11/14/08	9:22	Selenium - Dissolved	µg/L	<2.6	
NN08	W2069	81-1296	11/18/08	9:20	Selenium - Dissolved	µg/L	<2.6	
NN08	W2069	81-0721	06/23/08	11:20	Silver - Dissolved	µg/L	<0.13	
NN08	W2069	81-0915	08/19/08	10:30	Silver - Dissolved	µg/L	<0.13	
NN08	W2069	81-1245	10/01/08	9:10	Silver - Dissolved	µg/L	<0.13	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
NN08	W2069	81-1255	10/03/08	9:25	Silver - Dissolved	µg/L	<0.13	
NN08	W2069	81-1265	10/07/08	8:50	Silver - Dissolved	µg/L	<0.13	
NN08	W2069	81-1275	11/12/08	9:30	Silver - Dissolved	µg/L	<0.25	
NN08	W2069	81-1286	11/14/08	9:22	Silver - Dissolved	µg/L	<0.25	
NN08	W2069	81-1296	11/18/08	9:20	Silver - Dissolved	µg/L	<0.25	
NN08	W2069	81-0721	06/23/08	11:20	Thallium - Dissolved	µg/L	<0.16	
NN08	W2069	81-0915	08/19/08	10:30	Thallium - Dissolved	µg/L	<0.20	
NN08	W2069	81-1245	10/01/08	9:10	Thallium - Dissolved	µg/L	<0.20	
NN08	W2069	81-1255	10/03/08	9:25	Thallium - Dissolved	µg/L	<0.16	
NN08	W2069	81-1265	10/07/08	8:50	Thallium - Dissolved	µg/L	<0.16	
NN08	W2069	81-1275	11/12/08	9:30	Thallium - Dissolved	µg/L	<0.16	
NN08	W2069	81-1286	11/14/08	9:22	Thallium - Dissolved	µg/L	<0.16	
NN08	W2069	81-1296	11/18/08	9:20	Thallium - Dissolved	µg/L	<0.16	
NN08	W2069	81-0721	06/23/08	11:20	Zinc - Dissolved	µg/L	6.0	b
NN08	W2069	81-0915	08/19/08	10:30	Zinc - Dissolved	µg/L	5.1	
NN08	W2069	81-1245	10/01/08	9:10	Zinc - Dissolved	µg/L	5.0	b
NN08	W2069	81-1255	10/03/08	9:25	Zinc - Dissolved	µg/L	5.9	b
NN08	W2069	81-1265	10/07/08	8:50	Zinc - Dissolved	µg/L	6.2	b
NN08	W2069	81-1275	11/12/08	9:30	Zinc - Dissolved	µg/L	5.2	b
NN08	W2069	81-1286	11/14/08	9:22	Zinc - Dissolved	µg/L	5.8	
NN08	W2069	81-1296	11/18/08	9:20	Zinc - Dissolved	µg/L	4.9	
NN09	W0480	81-0517	05/15/08	8:05	*E. coli*	CFU/100mL	3600	
NN09	W0480	81-0657	06/12/08	9:04	*E. coli*	CFU/100mL	1400	
NN09	W0480	81-0848	07/17/08	8:30	*E. coli*	CFU/100mL	970	
NN09	W0480	81-1042	08/14/08	8:45	*E. coli*	CFU/100mL	390	
NN09	W0480	81-1136	09/04/08	9:11	*E. coli*	CFU/100mL	280	
NN09	W0480	81-1228	09/18/08	8:40	*E. coli*	CFU/100mL	650	
NN09	W0480	81-0517	05/15/08	8:05	Ammonia-N	mg/L	0.10	
NN09	W0480	81-0657	06/12/08	9:04	Ammonia-N	mg/L	0.19	
NN09	W0480	81-0848	07/17/08	8:30	Ammonia-N	mg/L	0.08	
NN09	W0480	81-1042	08/14/08	8:45	Ammonia-N	mg/L	0.04	
NN09	W0480	81-1228	09/18/08	8:40	Ammonia-N	mg/L	0.04	
NN09	W0480	81-1246	10/01/08	10:00	Ammonia-N	mg/L	0.04	
NN09	W0480	81-1256	10/03/08	10:05	Ammonia-N	mg/L	0.04	
NN09	W0480	81-1266	10/07/08	9:30	Ammonia-N	mg/L	0.04	
NN09	W0480	81-1278	11/12/08	10:20	Ammonia-N	mg/L	0.02	
NN09	W0480	81-1289	11/14/08	10:20	Ammonia-N	mg/L	0.02	
NN09	W0480	81-1299	11/18/08	10:10	Ammonia-N	mg/L	<0.02	
NN09	W0480	81-0517	05/15/08	8:05	Nitrate/Nitrite-N	mg/L	0.21	
NN09	W0480	81-0657	06/12/08	9:04	Nitrate/Nitrite-N	mg/L	0.50	
NN09	W0480	81-0848	07/17/08	8:30	Nitrate/Nitrite-N	mg/L	0.41	
NN09	W0480	81-1042	08/14/08	8:45	Nitrate/Nitrite-N	mg/L	0.15	
NN09	W0480	81-1228	09/18/08	8:40	Nitrate/Nitrite-N	mg/L	0.21	a
NN09	W0480	81-0517	05/15/08	8:05	Total Nitrogen	mg/L	0.96	
NN09	W0480	81-0657	06/12/08	9:04	Total Nitrogen	mg/L	1.9	
NN09	W0480	81-0848	07/17/08	8:30	Total Nitrogen	mg/L	0.81	
NN09	W0480	81-1042	08/14/08	8:45	Total Nitrogen	mg/L	0.70	
NN09	W0480	81-1228	09/18/08	8:40	Total Nitrogen	mg/L	0.55	
NN09	W0480	81-0517	05/15/08	8:05	Total Phosphorus	mg/L	0.030	
NN09	W0480	81-0657	06/12/08	9:04	Total Phosphorus	mg/L	0.041	
NN09	W0480	81-0848	07/17/08	8:30	Total Phosphorus	mg/L	0.027	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
NN09	W0480	81-1042	08/14/08	8:45	Total Phosphorus	mg/L	0.024	
NN09	W0480	81-1228	09/18/08	8:40	Total Phosphorus	mg/L	0.018	
NN09	W0480	81-0517	05/15/08	8:05	Dissolved Reactive Phosphorus	mg/L	<0.005	
NN09	W0480	81-0657	06/12/08	9:04	Dissolved Reactive Phosphorus	mg/L	0.008	
NN09	W0480	81-0848	07/17/08	8:30	Dissolved Reactive Phosphorus	mg/L	<0.005	
NN09	W0480	81-1042	08/14/08	8:45	Dissolved Reactive Phosphorus	mg/L	<0.006	
NN09	W0480	81-1228	09/18/08	8:40	Dissolved Reactive Phosphorus	mg/L	<0.005	
NN09	W0480	81-0517	05/15/08	8:05	Turbidity	NTU	2.1	
NN09	W0480	81-0657	06/12/08	9:04	Turbidity	NTU	2.5	
NN09	W0480	81-0848	07/17/08	8:30	Turbidity	NTU	2.6	
NN09	W0480	81-1042	08/14/08	8:45	Turbidity	NTU	3.3	
NN09	W0480	81-1228	09/18/08	8:40	Turbidity	NTU	2.4	
NN09	W0480	81-0517	05/15/08	8:05	True Color	PCU	<15	
NN09	W0480	81-0657	06/12/08	9:04	True Color	PCU	19	
NN09	W0480	81-0848	07/17/08	8:30	True Color	PCU	25	
NN09	W0480	81-1042	08/14/08	8:45	True Color	PCU	42	
NN09	W0480	81-1228	09/18/08	8:40	True Color	PCU	30	
NN09	W0480	81-0722	06/23/08	10:45	Hardness	mg/L as CaCO3	39	
NN09	W0480	81-0916	08/19/08	10:50	Hardness	mg/L as CaCO3	29	
NN09	W0480	81-1246	10/01/08	10:00	Hardness	mg/L as CaCO3	21	
NN09	W0480	81-1256	10/03/08	10:05	Hardness	mg/L as CaCO3	23	
NN09	W0480	81-1266	10/07/08	9:30	Hardness	mg/L as CaCO3	29	
NN09	W0480	81-1278	11/12/08	10:20	Hardness	mg/L as CaCO3	30	
NN09	W0480	81-1289	11/14/08	10:20	Hardness	mg/L as CaCO3	29	
NN09	W0480	81-1299	11/18/08	10:10	Hardness	mg/L as CaCO3	23	
NN09	W0480	81-0722	06/23/08	10:45	Aluminum - Dissolved	µg/L	<20	
NN09	W0480	81-0916	08/19/08	10:50	Aluminum - Dissolved	µg/L	<50	
NN09	W0480	81-1246	10/01/08	10:00	Aluminum - Dissolved	µg/L	<50	
NN09	W0480	81-1256	10/03/08	10:05	Aluminum - Dissolved	µg/L	<50	
NN09	W0480	81-1266	10/07/08	9:30	Aluminum - Dissolved	µg/L	<50	
NN09	W0480	81-1278	11/12/08	10:20	Aluminum - Dissolved	µg/L	50	
NN09	W0480	81-1289	11/14/08	10:20	Aluminum - Dissolved	µg/L	<50	
NN09	W0480	81-1299	11/18/08	10:10	Aluminum - Dissolved	µg/L	63	
NN09	W0480	81-0722	06/23/08	10:45	Antimony - Dissolved	µg/L	0.23	
NN09	W0480	81-0916	08/19/08	10:50	Antimony - Dissolved	µg/L	0.21	
NN09	W0480	81-1246	10/01/08	10:00	Antimony - Dissolved	µg/L	0.21	
NN09	W0480	81-1256	10/03/08	10:05	Antimony - Dissolved	µg/L	0.17	
NN09	W0480	81-1266	10/07/08	9:30	Antimony - Dissolved	µg/L	0.21	
NN09	W0480	81-1278	11/12/08	10:20	Antimony - Dissolved	µg/L	0.16	
NN09	W0480	81-1289	11/14/08	10:20	Antimony - Dissolved	µg/L	0.23	
NN09	W0480	81-1299	11/18/08	10:10	Antimony - Dissolved	µg/L	<0.15	
NN09	W0480	81-0722	06/23/08	10:45	Arsenic - Dissolved	µg/L	1.3	
NN09	W0480	81-0916	08/19/08	10:50	Arsenic - Dissolved	µg/L	1.1	
NN09	W0480	81-1246	10/01/08	10:00	Arsenic - Dissolved	µg/L	0.79	
NN09	W0480	81-1256	10/03/08	10:05	Arsenic - Dissolved	µg/L	1.0	
NN09	W0480	81-1266	10/07/08	9:30	Arsenic - Dissolved	µg/L	1.0	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
NN09	W0480	81-1278	11/12/08	10:20	Arsenic - Dissolved	µg/L	0.81	
NN09	W0480	81-1289	11/14/08	10:20	Arsenic - Dissolved	µg/L	0.88	
NN09	W0480	81-1299	11/18/08	10:10	Arsenic - Dissolved	µg/L	0.85	
NN09	W0480	81-0722	06/23/08	10:45	Beryllium - Dissolved	µg/L	<0.20	
NN09	W0480	81-0916	08/19/08	10:50	Beryllium - Dissolved	µg/L	<0.20	
NN09	W0480	81-1246	10/01/08	10:00	Beryllium - Dissolved	µg/L	<0.20	
NN09	W0480	81-1256	10/03/08	10:05	Beryllium - Dissolved	µg/L	<0.20	
NN09	W0480	81-1266	10/07/08	9:30	Beryllium - Dissolved	µg/L	<0.20	
NN09	W0480	81-1278	11/12/08	10:20	Beryllium - Dissolved	µg/L	<0.20	
NN09	W0480	81-1289	11/14/08	10:20	Beryllium - Dissolved	µg/L	<0.20	
NN09	W0480	81-1299	11/18/08	10:10	Beryllium - Dissolved	µg/L	<0.20	
NN09	W0480	81-0722	06/23/08	10:45	Cadmium - Dissolved	µg/L	<0.13	
NN09	W0480	81-0916	08/19/08	10:50	Cadmium - Dissolved	µg/L	<0.13	
NN09	W0480	81-1246	10/01/08	10:00	Cadmium - Dissolved	µg/L	<0.13	
NN09	W0480	81-1256	10/03/08	10:05	Cadmium - Dissolved	µg/L	<0.13	
NN09	W0480	81-1266	10/07/08	9:30	Cadmium - Dissolved	µg/L	<0.13	
NN09	W0480	81-1278	11/12/08	10:20	Cadmium - Dissolved	µg/L	<0.13	
NN09	W0480	81-1289	11/14/08	10:20	Cadmium - Dissolved	µg/L	<0.13	
NN09	W0480	81-1299	11/18/08	10:10	Cadmium - Dissolved	µg/L	<0.13	
NN09	W0480	81-0722	06/23/08	10:45	Calcium - Dissolved	mg/L	13	
NN09	W0480	81-0916	08/19/08	10:50	Calcium - Dissolved	mg/L	9.3	
NN09	W0480	81-1246	10/01/08	10:00	Calcium - Dissolved	mg/L	6.5	
NN09	W0480	81-1256	10/03/08	10:05	Calcium - Dissolved	mg/L	7.4	
NN09	W0480	81-1266	10/07/08	9:30	Calcium - Dissolved	mg/L	9.3	
NN09	W0480	81-1278	11/12/08	10:20	Calcium - Dissolved	mg/L	9.7	
NN09	W0480	81-1289	11/14/08	10:20	Calcium - Dissolved	mg/L	9.3	
NN09	W0480	81-1299	11/18/08	10:10	Calcium - Dissolved	mg/L	7.0	
NN09	W0480	81-0722	06/23/08	10:45	Chromium - Dissolved	µg/L	<0.22	
NN09	W0480	81-0916	08/19/08	10:50	Chromium - Dissolved	µg/L	0.28	d
NN09	W0480	81-1246	10/01/08	10:00	Chromium - Dissolved	µg/L	0.25	
NN09	W0480	81-1256	10/03/08	10:05	Chromium - Dissolved	µg/L	<0.22	
NN09	W0480	81-1266	10/07/08	9:30	Chromium - Dissolved	µg/L	<0.22	
NN09	W0480	81-1278	11/12/08	10:20	Chromium - Dissolved	µg/L	<0.22	
NN09	W0480	81-1289	11/14/08	10:20	Chromium - Dissolved	µg/L	<0.22	
NN09	W0480	81-1299	11/18/08	10:10	Chromium - Dissolved	µg/L	<0.22	
NN09	W0480	81-0722	06/23/08	10:45	Copper - Dissolved	µg/L	3.0	
NN09	W0480	81-0916	08/19/08	10:50	Copper - Dissolved	µg/L	2.9	
NN09	W0480	81-1246	10/01/08	10:00	Copper - Dissolved	µg/L	1.9	
NN09	W0480	81-1256	10/03/08	10:05	Copper - Dissolved	µg/L	2.1	
NN09	W0480	81-1266	10/07/08	9:30	Copper - Dissolved	µg/L	##	d
NN09	W0480	81-1278	11/12/08	10:20	Copper - Dissolved	µg/L	1.7	a, b
NN09	W0480	81-1289	11/14/08	10:20	Copper - Dissolved	µg/L	1.9	
NN09	W0480	81-1299	11/18/08	10:10	Copper - Dissolved	µg/L	1.6	
NN09	W0480	81-0722	06/23/08	10:45	Lead - Dissolved	µg/L	0.64	
NN09	W0480	81-0916	08/19/08	10:50	Lead - Dissolved	µg/L	0.65	
NN09	W0480	81-1246	10/01/08	10:00	Lead - Dissolved	µg/L	0.44	
NN09	W0480	81-1256	10/03/08	10:05	Lead - Dissolved	µg/L	0.40	
NN09	W0480	81-1266	10/07/08	9:30	Lead - Dissolved	µg/L	0.44	
NN09	W0480	81-1278	11/12/08	10:20	Lead - Dissolved	µg/L	0.31	
NN09	W0480	81-1289	11/14/08	10:20	Lead - Dissolved	µg/L	0.23	
NN09	W0480	81-1299	11/18/08	10:10	Lead - Dissolved	µg/L	0.33	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
NN09	W0480	81-0722	06/23/08	10:45	Magnesium - Dissolved	mg/L	1.8	
NN09	W0480	81-0916	08/19/08	10:50	Magnesium - Dissolved	mg/L	1.4	
NN09	W0480	81-1246	10/01/08	10:00	Magnesium - Dissolved	mg/L	1.1	
NN09	W0480	81-1256	10/03/08	10:05	Magnesium - Dissolved	mg/L	1.2	
NN09	W0480	81-1266	10/07/08	9:30	Magnesium - Dissolved	mg/L	1.4	
NN09	W0480	81-1278	11/12/08	10:20	Magnesium - Dissolved	mg/L	1.5	
NN09	W0480	81-1289	11/14/08	10:20	Magnesium - Dissolved	mg/L	1.5	
NN09	W0480	81-1299	11/18/08	10:10	Magnesium - Dissolved	mg/L	1.3	
NN09	W0480	81-0722	06/23/08	10:45	Nickel - Dissolved	µg/L	1.5	
NN09	W0480	81-0916	08/19/08	10:50	Nickel - Dissolved	µg/L	1.2	
NN09	W0480	81-1246	10/01/08	10:00	Nickel - Dissolved	µg/L	1.0	
NN09	W0480	81-1256	10/03/08	10:05	Nickel - Dissolved	µg/L	0.98	
NN09	W0480	81-1266	10/07/08	9:30	Nickel - Dissolved	µg/L	1.1	
NN09	W0480	81-1278	11/12/08	10:20	Nickel - Dissolved	µg/L	0.90	
NN09	W0480	81-1289	11/14/08	10:20	Nickel - Dissolved	µg/L	0.85	
NN09	W0480	81-1299	11/18/08	10:10	Nickel - Dissolved	µg/L	0.77	
NN09	W0480	81-0722	06/23/08	10:45	Selenium - Dissolved	µg/L	<2.6	
NN09	W0480	81-0916	08/19/08	10:50	Selenium - Dissolved	µg/L	<2.6	
NN09	W0480	81-1246	10/01/08	10:00	Selenium - Dissolved	µg/L	<2.6	
NN09	W0480	81-1256	10/03/08	10:05	Selenium - Dissolved	µg/L	<2.6	
NN09	W0480	81-1266	10/07/08	9:30	Selenium - Dissolved	µg/L	<2.6	
NN09	W0480	81-1278	11/12/08	10:20	Selenium - Dissolved	µg/L	<2.6	
NN09	W0480	81-1289	11/14/08	10:20	Selenium - Dissolved	µg/L	<2.6	
NN09	W0480	81-1299	11/18/08	10:10	Selenium - Dissolved	µg/L	<2.6	
NN09	W0480	81-0722	06/23/08	10:45	Silver - Dissolved	µg/L	<0.13	
NN09	W0480	81-0916	08/19/08	10:50	Silver - Dissolved	µg/L	<0.13	
NN09	W0480	81-1246	10/01/08	10:00	Silver - Dissolved	µg/L	<0.13	
NN09	W0480	81-1256	10/03/08	10:05	Silver - Dissolved	µg/L	<0.13	
NN09	W0480	81-1266	10/07/08	9:30	Silver - Dissolved	µg/L	0.13	
NN09	W0480	81-1278	11/12/08	10:20	Silver - Dissolved	µg/L	<0.25	
NN09	W0480	81-1289	11/14/08	10:20	Silver - Dissolved	µg/L	<0.25	
NN09	W0480	81-1299	11/18/08	10:10	Silver - Dissolved	µg/L	<0.25	
NN09	W0480	81-0722	06/23/08	10:45	Thallium - Dissolved	µg/L	<0.16	
NN09	W0480	81-0916	08/19/08	10:50	Thallium - Dissolved	µg/L	<0.20	
NN09	W0480	81-1246	10/01/08	10:00	Thallium - Dissolved	µg/L	<0.20	
NN09	W0480	81-1256	10/03/08	10:05	Thallium - Dissolved	µg/L	<0.16	
NN09	W0480	81-1266	10/07/08	9:30	Thallium - Dissolved	µg/L	<0.16	
NN09	W0480	81-1278	11/12/08	10:20	Thallium - Dissolved	µg/L	<0.16	
NN09	W0480	81-1289	11/14/08	10:20	Thallium - Dissolved	µg/L	<0.16	
NN09	W0480	81-1299	11/18/08	10:10	Thallium - Dissolved	µg/L	<0.16	
NN09	W0480	81-0722	06/23/08	10:45	Zinc - Dissolved	µg/L	4.3	b
NN09	W0480	81-0916	08/19/08	10:50	Zinc - Dissolved	µg/L	4.3	
NN09	W0480	81-1246	10/01/08	10:00	Zinc - Dissolved	µg/L	4.0	b
NN09	W0480	81-1256	10/03/08	10:05	Zinc - Dissolved	µg/L	4.7	b
NN09	W0480	81-1266	10/07/08	9:30	Zinc - Dissolved	µg/L	5.4	b
NN09	W0480	81-1278	11/12/08	10:20	Zinc - Dissolved	µg/L	4.4	b
NN09	W0480	81-1289	11/14/08	10:20	Zinc - Dissolved	µg/L	5.3	
NN09	W0480	81-1299	11/18/08	10:10	Zinc - Dissolved	µg/L	4.2	
NN10	W2068	81-1247	10/01/08	10:50	Ammonia-N	mg/L	0.04	
NN10	W2068	81-1257	10/03/08	11:00	Ammonia-N	mg/L	0.05	
NN10	W2068	81-1269	10/07/08	10:20	Ammonia-N	mg/L	0.06	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
NN10	W2068	81-1279	11/12/08	11:00	Ammonia-N	mg/L	0.03	
NN10	W2068	81-1290	11/14/08	10:50	Ammonia-N	mg/L	0.04	
NN10	W2068	81-1300	11/18/08	10:50	Ammonia-N	mg/L	0.02	
NN10	W2068	81-0725	06/23/08	12:10	Hardness	mg/L as CaCO3	30	
NN10	W2068	81-0917	08/19/08	11:30	Hardness	mg/L as CaCO3	25	
NN10	W2068	81-1247	10/01/08	10:50	Hardness	mg/L as CaCO3	20	
NN10	W2068	81-1257	10/03/08	11:00	Hardness	mg/L as CaCO3	21	
NN10	W2068	81-1269	10/07/08	10:20	Hardness	mg/L as CaCO3	27	
NN10	W2068	81-1279	11/12/08	11:00	Hardness	mg/L as CaCO3	28	
NN10	W2068	81-1290	11/14/08	10:50	Hardness	mg/L as CaCO3	28	
NN10	W2068	81-1300	11/18/08	10:50	Hardness	mg/L as CaCO3	21	
NN10	W2068	81-0725	06/23/08	12:10	Aluminum - Dissolved	µg/L	<20	
NN10	W2068	81-0917	08/19/08	11:30	Aluminum - Dissolved	µg/L	<50	
NN10	W2068	81-1247	10/01/08	10:50	Aluminum - Dissolved	µg/L	<50	
NN10	W2068	81-1257	10/03/08	11:00	Aluminum - Dissolved	µg/L	<50	
NN10	W2068	81-1269	10/07/08	10:20	Aluminum - Dissolved	µg/L	54	
NN10	W2068	81-1279	11/12/08	11:00	Aluminum - Dissolved	µg/L	55	
NN10	W2068	81-1290	11/14/08	10:50	Aluminum - Dissolved	µg/L	51	
NN10	W2068	81-1300	11/18/08	10:50	Aluminum - Dissolved	µg/L	62	
NN10	W2068	81-0725	06/23/08	12:10	Antimony - Dissolved	µg/L	0.22	
NN10	W2068	81-0917	08/19/08	11:30	Antimony - Dissolved	µg/L	<0.16	
NN10	W2068	81-1247	10/01/08	10:50	Antimony - Dissolved	µg/L	<0.16	
NN10	W2068	81-1257	10/03/08	11:00	Antimony - Dissolved	µg/L	<0.15	
NN10	W2068	81-1269	10/07/08	10:20	Antimony - Dissolved	µg/L	<0.15	
NN10	W2068	81-1279	11/12/08	11:00	Antimony - Dissolved	µg/L	<0.15	
NN10	W2068	81-1290	11/14/08	10:50	Antimony - Dissolved	µg/L	0.15	
NN10	W2068	81-1300	11/18/08	10:50	Antimony - Dissolved	µg/L	<0.15	
NN10	W2068	81-0725	06/23/08	12:10	Arsenic - Dissolved	µg/L	1.1	
NN10	W2068	81-0917	08/19/08	11:30	Arsenic - Dissolved	µg/L	0.96	
NN10	W2068	81-1247	10/01/08	10:50	Arsenic - Dissolved	µg/L	0.67	
NN10	W2068	81-1257	10/03/08	11:00	Arsenic - Dissolved	µg/L	0.91	
NN10	W2068	81-1269	10/07/08	10:20	Arsenic - Dissolved	µg/L	0.86	
NN10	W2068	81-1279	11/12/08	11:00	Arsenic - Dissolved	µg/L	0.76	
NN10	W2068	81-1290	11/14/08	10:50	Arsenic - Dissolved	µg/L	0.84	
NN10	W2068	81-1300	11/18/08	10:50	Arsenic - Dissolved	µg/L	0.81	
NN10	W2068	81-0725	06/23/08	12:10	Beryllium - Dissolved	µg/L	<0.20	
NN10	W2068	81-0917	08/19/08	11:30	Beryllium - Dissolved	µg/L	<0.20	
NN10	W2068	81-1247	10/01/08	10:50	Beryllium - Dissolved	µg/L	<0.20	
NN10	W2068	81-1257	10/03/08	11:00	Beryllium - Dissolved	µg/L	<0.20	
NN10	W2068	81-1269	10/07/08	10:20	Beryllium - Dissolved	µg/L	<0.20	
NN10	W2068	81-1279	11/12/08	11:00	Beryllium - Dissolved	µg/L	<0.20	
NN10	W2068	81-1290	11/14/08	10:50	Beryllium - Dissolved	µg/L	<0.20	
NN10	W2068	81-1300	11/18/08	10:50	Beryllium - Dissolved	µg/L	<0.20	
NN10	W2068	81-0725	06/23/08	12:10	Cadmium - Dissolved	µg/L	<0.13	
NN10	W2068	81-0917	08/19/08	11:30	Cadmium - Dissolved	µg/L	<0.13	
NN10	W2068	81-1247	10/01/08	10:50	Cadmium - Dissolved	µg/L	<0.13	
NN10	W2068	81-1257	10/03/08	11:00	Cadmium - Dissolved	µg/L	<0.13	
NN10	W2068	81-1269	10/07/08	10:20	Cadmium - Dissolved	µg/L	<0.13	
NN10	W2068	81-1279	11/12/08	11:00	Cadmium - Dissolved	µg/L	<0.13	
NN10	W2068	81-1290	11/14/08	10:50	Cadmium - Dissolved	µg/L	<0.13	
NN10	W2068	81-1300	11/18/08	10:50	Cadmium - Dissolved	µg/L	<0.13	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
NN10	W2068	81-0725	06/23/08	12:10	Calcium - Dissolved	mg/L	9.7	
NN10	W2068	81-0917	08/19/08	11:30	Calcium - Dissolved	mg/L	8.1	
NN10	W2068	81-1247	10/01/08	10:50	Calcium - Dissolved	mg/L	6.1	
NN10	W2068	81-1257	10/03/08	11:00	Calcium - Dissolved	mg/L	6.5	
NN10	W2068	81-1269	10/07/08	10:20	Calcium - Dissolved	mg/L	8.6	
NN10	W2068	81-1279	11/12/08	11:00	Calcium - Dissolved	mg/L	8.8	
NN10	W2068	81-1290	11/14/08	10:50	Calcium - Dissolved	mg/L	9.0	
NN10	W2068	81-1300	11/18/08	10:50	Calcium - Dissolved	mg/L	6.4	
NN10	W2068	81-0725	06/23/08	12:10	Chromium - Dissolved	µg/L	<0.22	
NN10	W2068	81-0917	08/19/08	11:30	Chromium - Dissolved	µg/L	0.22	d
NN10	W2068	81-1247	10/01/08	10:50	Chromium - Dissolved	µg/L	0.25	
NN10	W2068	81-1257	10/03/08	11:00	Chromium - Dissolved	µg/L	<0.22	
NN10	W2068	81-1269	10/07/08	10:20	Chromium - Dissolved	µg/L	<0.22	
NN10	W2068	81-1279	11/12/08	11:00	Chromium - Dissolved	µg/L	<0.22	
NN10	W2068	81-1290	11/14/08	10:50	Chromium - Dissolved	µg/L	<0.22	
NN10	W2068	81-1300	11/18/08	10:50	Chromium - Dissolved	µg/L	<0.22	
NN10	W2068	81-0725	06/23/08	12:10	Copper - Dissolved	µg/L	1.7	
NN10	W2068	81-0917	08/19/08	11:30	Copper - Dissolved	µg/L	4.5	
NN10	W2068	81-1247	10/01/08	10:50	Copper - Dissolved	µg/L	1.4	
NN10	W2068	81-1257	10/03/08	11:00	Copper - Dissolved	µg/L	1.5	
NN10	W2068	81-1269	10/07/08	10:20	Copper - Dissolved	µg/L	2.5	d
NN10	W2068	81-1279	11/12/08	11:00	Copper - Dissolved	µg/L	1.3	a, b
NN10	W2068	81-1290	11/14/08	10:50	Copper - Dissolved	µg/L	1.5	
NN10	W2068	81-1300	11/18/08	10:50	Copper - Dissolved	µg/L	2.1	
NN10	W2068	81-0725	06/23/08	12:10	Lead - Dissolved	µg/L	0.51	
NN10	W2068	81-0917	08/19/08	11:30	Lead - Dissolved	µg/L	0.52	
NN10	W2068	81-1247	10/01/08	10:50	Lead - Dissolved	µg/L	0.35	
NN10	W2068	81-1257	10/03/08	11:00	Lead - Dissolved	µg/L	0.35	
NN10	W2068	81-1269	10/07/08	10:20	Lead - Dissolved	µg/L	0.35	
NN10	W2068	81-1279	11/12/08	11:00	Lead - Dissolved	µg/L	0.28	
NN10	W2068	81-1290	11/14/08	10:50	Lead - Dissolved	µg/L	0.32	
NN10	W2068	81-1300	11/18/08	10:50	Lead - Dissolved	µg/L	0.33	
NN10	W2068	81-0725	06/23/08	12:10	Magnesium - Dissolved	mg/L	1.5	
NN10	W2068	81-0917	08/19/08	11:30	Magnesium - Dissolved	mg/L	1.2	
NN10	W2068	81-1247	10/01/08	10:50	Magnesium - Dissolved	mg/L	1.1	
NN10	W2068	81-1257	10/03/08	11:00	Magnesium - Dissolved	mg/L	1.1	
NN10	W2068	81-1269	10/07/08	10:20	Magnesium - Dissolved	mg/L	1.3	
NN10	W2068	81-1279	11/12/08	11:00	Magnesium - Dissolved	mg/L	1.3	
NN10	W2068	81-1290	11/14/08	10:50	Magnesium - Dissolved	mg/L	1.3	
NN10	W2068	81-1300	11/18/08	10:50	Magnesium - Dissolved	mg/L	1.2	
NN10	W2068	81-0725	06/23/08	12:10	Nickel - Dissolved	µg/L	1.1	
NN10	W2068	81-0917	08/19/08	11:30	Nickel - Dissolved	µg/L	0.95	
NN10	W2068	81-1247	10/01/08	10:50	Nickel - Dissolved	µg/L	0.84	
NN10	W2068	81-1257	10/03/08	11:00	Nickel - Dissolved	µg/L	0.78	
NN10	W2068	81-1269	10/07/08	10:20	Nickel - Dissolved	µg/L	0.90	
NN10	W2068	81-1279	11/12/08	11:00	Nickel - Dissolved	µg/L	0.78	
NN10	W2068	81-1290	11/14/08	10:50	Nickel - Dissolved	µg/L	0.79	
NN10	W2068	81-1300	11/18/08	10:50	Nickel - Dissolved	µg/L	0.79	
NN10	W2068	81-0725	06/23/08	12:10	Selenium - Dissolved	µg/L	<2.6	
NN10	W2068	81-0917	08/19/08	11:30	Selenium - Dissolved	µg/L	<2.6	
NN10	W2068	81-1247	10/01/08	10:50	Selenium - Dissolved	µg/L	<2.6	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
NN10	W2068	81-1257	10/03/08	11:00	Selenium - Dissolved	µg/L	<2.6	
NN10	W2068	81-1269	10/07/08	10:20	Selenium - Dissolved	µg/L	<2.6	
NN10	W2068	81-1279	11/12/08	11:00	Selenium - Dissolved	µg/L	<2.6	
NN10	W2068	81-1290	11/14/08	10:50	Selenium - Dissolved	µg/L	<2.6	
NN10	W2068	81-1300	11/18/08	10:50	Selenium - Dissolved	µg/L	<2.6	
NN10	W2068	81-0725	06/23/08	12:10	Silver - Dissolved	µg/L	<0.13	
NN10	W2068	81-0917	08/19/08	11:30	Silver - Dissolved	µg/L	<0.13	
NN10	W2068	81-1247	10/01/08	10:50	Silver - Dissolved	µg/L	<0.13	
NN10	W2068	81-1257	10/03/08	11:00	Silver - Dissolved	µg/L	<0.13	
NN10	W2068	81-1269	10/07/08	10:20	Silver - Dissolved	µg/L	<0.13	
NN10	W2068	81-1279	11/12/08	11:00	Silver - Dissolved	µg/L	<0.25	
NN10	W2068	81-1290	11/14/08	10:50	Silver - Dissolved	µg/L	<0.25	
NN10	W2068	81-1300	11/18/08	10:50	Silver - Dissolved	µg/L	<0.25	
NN10	W2068	81-0725	06/23/08	12:10	Thallium - Dissolved	µg/L	<0.16	
NN10	W2068	81-0917	08/19/08	11:30	Thallium - Dissolved	µg/L	<0.20	
NN10	W2068	81-1247	10/01/08	10:50	Thallium - Dissolved	µg/L	<0.20	
NN10	W2068	81-1257	10/03/08	11:00	Thallium - Dissolved	µg/L	<0.16	
NN10	W2068	81-1269	10/07/08	10:20	Thallium - Dissolved	µg/L	<0.16	
NN10	W2068	81-1279	11/12/08	11:00	Thallium - Dissolved	µg/L	<0.16	
NN10	W2068	81-1290	11/14/08	10:50	Thallium - Dissolved	µg/L	<0.16	
NN10	W2068	81-1300	11/18/08	10:50	Thallium - Dissolved	µg/L	<0.16	
NN10	W2068	81-0725	06/23/08	12:10	Zinc - Dissolved	µg/L	3.0	b
NN10	W2068	81-0917	08/19/08	11:30	Zinc - Dissolved	µg/L	2.8	
NN10	W2068	81-1247	10/01/08	10:50	Zinc - Dissolved	µg/L	3.2	b
NN10	W2068	81-1257	10/03/08	11:00	Zinc - Dissolved	µg/L	3.1	b
NN10	W2068	81-1269	10/07/08	10:20	Zinc - Dissolved	µg/L	4.2	b
NN10	W2068	81-1279	11/12/08	11:00	Zinc - Dissolved	µg/L	3.1	b
NN10	W2068	81-1290	11/14/08	10:50	Zinc - Dissolved	µg/L	4.2	
NN10	W2068	81-1300	11/18/08	10:50	Zinc - Dissolved	µg/L	3.6	
NN10A	W0993	81-0514	05/15/08	7:41	*E. coli*	CFU/100mL	1400	
NN10A	W0993	81-0654	06/12/08	8:35	*E. coli*	CFU/100mL	270	
NN10A	W0993	81-0845	07/17/08	8:15	*E. coli*	CFU/100mL	550	
NN10A	W0993	81-1039	08/14/08	8:20	*E. coli*	CFU/100mL	570	
NN10A	W0993	81-1135	09/04/08	8:50	*E. coli*	CFU/100mL	160	
NN10A	W0993	81-1225	09/18/08	8:20	*E. coli*	CFU/100mL	1900	
NN10A	W0993	81-0514	05/15/08	7:41	Ammonia-N	mg/L	1.3	
NN10A	W0993	81-0654	06/12/08	8:35	Ammonia-N	mg/L	1.7	
NN10A	W0993	81-0845	07/17/08	8:15	Ammonia-N	mg/L	0.11	
NN10A	W0993	81-1039	08/14/08	8:20	Ammonia-N	mg/L	0.04	
NN10A	W0993	81-1225	09/18/08	8:20	Ammonia-N	mg/L	0.10	
NN10A	W0993	81-0514	05/15/08	7:41	Nitrate/Nitrite-N	mg/L	0.53	
NN10A	W0993	81-0654	06/12/08	8:35	Nitrate/Nitrite-N	mg/L	0.68	
NN10A	W0993	81-0845	07/17/08	8:15	Nitrate/Nitrite-N	mg/L	2.8	
NN10A	W0993	81-1039	08/14/08	8:20	Nitrate/Nitrite-N	mg/L	0.72	
NN10A	W0993	81-1225	09/18/08	8:20	Nitrate/Nitrite-N	mg/L	1.3	a
NN10A	W0993	81-0514	05/15/08	7:41	Total Nitrogen	mg/L	2.5	
NN10A	W0993	81-0654	06/12/08	8:35	Total Nitrogen	mg/L	3.3	
NN10A	W0993	81-0845	07/17/08	8:15	Total Nitrogen	mg/L	3.7	
NN10A	W0993	81-1039	08/14/08	8:20	Total Nitrogen	mg/L	1.3	
NN10A	W0993	81-1225	09/18/08	8:20	Total Nitrogen	mg/L	1.7	
NN10A	W0993	81-0514	05/15/08	7:41	Total Phosphorus	mg/L	0.065	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
NN10A	W0993	81-0654	06/12/08	8:35	Total Phosphorus	mg/L	0.46	
NN10A	W0993	81-0845	07/17/08	8:15	Total Phosphorus	mg/L	0.60	
NN10A	W0993	81-1039	08/14/08	8:20	Total Phosphorus	mg/L	0.041	
NN10A	W0993	81-1225	09/18/08	8:20	Total Phosphorus	mg/L	0.052	
NN10A	W0993	81-0514	05/15/08	7:41	Dissolved Reactive Phosphorus	mg/L	0.019	
NN10A	W0993	81-0654	06/12/08	8:35	Dissolved Reactive Phosphorus	mg/L	0.28	
NN10A	W0993	81-0845	07/17/08	8:15	Dissolved Reactive Phosphorus	mg/L	0.50	
NN10A	W0993	81-1039	08/14/08	8:20	Dissolved Reactive Phosphorus	mg/L	<0.006	
NN10A	W0993	81-1225	09/18/08	8:20	Dissolved Reactive Phosphorus	mg/L	0.018	
NN10A	W0993	81-0514	05/15/08	7:41	Turbidity	NTU	2.9	
NN10A	W0993	81-0654	06/12/08	8:35	Turbidity	NTU	5.1	
NN10A	W0993	81-0845	07/17/08	8:15	Turbidity	NTU	4.2	d
NN10A	W0993	81-1039	08/14/08	8:20	Turbidity	NTU	3.1	
NN10A	W0993	81-1225	09/18/08	8:20	Turbidity	NTU	2.8	
NN10A	W0993	81-0514	05/15/08	7:41	True Color	PCU	<15	
NN10A	W0993	81-0654	06/12/08	8:35	True Color	PCU	20	
NN10A	W0993	81-0845	07/17/08	8:15	True Color	PCU	28	
NN10A	W0993	81-1039	08/14/08	8:20	True Color	PCU	50	
NN10A	W0993	81-1225	09/18/08	8:20	True Color	PCU	26	
NN10A	W0993	81-0514	05/15/08	7:41	Hardness	mg/L	34	
NN10A	W0993	81-0845	07/17/08	8:15	Hardness	mg/L	58	
NNR01	W1780	81-0523	05/15/08	9:40	*E. coli*	CFU/100mL	11000	
NNR01	W1780	81-0663	06/12/08	10:58	*E. coli*	CFU/100mL	170	
NNR01	W1780	81-0854	07/17/08	9:55	*E. coli*	CFU/100mL	45	
NNR01	W1780	81-1048	08/14/08	10:05	*E. coli*	CFU/100mL	45	
NNR01	W1780	81-1142	09/04/08	10:28	*E. coli*	CFU/100mL	130	
NNR01	W1780	81-1234	09/18/08	10:12	*E. coli*	CFU/100mL	55	
NNR01	W1780	81-0523	05/15/08	9:40	Ammonia-N	mg/L	0.14	
NNR01	W1780	81-0663	06/12/08	10:58	Ammonia-N	mg/L	0.26	
NNR01	W1780	81-0854	07/17/08	9:55	Ammonia-N	mg/L	0.09	
NNR01	W1780	81-1048	08/14/08	10:05	Ammonia-N	mg/L	0.03	
NNR01	W1780	81-1234	09/18/08	10:12	Ammonia-N	mg/L	0.04	
NNR01	W1780	81-1248	10/01/08	11:45	Ammonia-N	mg/L	0.04	
NNR01	W1780	81-1260	10/03/08	11:35	Ammonia-N	mg/L	0.04	
NNR01	W1780	81-1270	10/07/08	10:50	Ammonia-N	mg/L	0.04	
NNR01	W1780	81-1280	11/12/08	11:40	Ammonia-N	mg/L	0.02	
NNR01	W1780	81-1291	11/14/08	11:30	Ammonia-N	mg/L	0.03	
NNR01	W1780	81-1301	11/18/08	11:25	Ammonia-N	mg/L	<0.02	
NNR01	W1780	81-0523	05/15/08	9:40	Nitrate/Nitrite-N	mg/L	0.09	
NNR01	W1780	81-0663	06/12/08	10:58	Nitrate/Nitrite-N	mg/L	0.27	
NNR01	W1780	81-0854	07/17/08	9:55	Nitrate/Nitrite-N	mg/L	0.27	
NNR01	W1780	81-1048	08/14/08	10:05	Nitrate/Nitrite-N	mg/L	0.10	
NNR01	W1780	81-1234	09/18/08	10:12	Nitrate/Nitrite-N	mg/L	0.10	a
NNR01	W1780	81-0523	05/15/08	9:40	Total Nitrogen	mg/L	0.83	
NNR01	W1780	81-0663	06/12/08	10:58	Total Nitrogen	mg/L	3.1	
NNR01	W1780	81-0854	07/17/08	9:55	Total Nitrogen	mg/L	1.0	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
NNR01	W1780	81-1048	08/14/08	10:05	Total Nitrogen	mg/L	0.65	
NNR01	W1780	81-1234	09/18/08	10:12	Total Nitrogen	mg/L	0.45	
NNR01	W1780	81-0523	05/15/08	9:40	Total Phosphorus	mg/L	0.046	
NNR01	W1780	81-0663	06/12/08	10:58	Total Phosphorus	mg/L	0.024	
NNR01	W1780	81-0854	07/17/08	9:55	Total Phosphorus	mg/L	0.015	
NNR01	W1780	81-1048	08/14/08	10:05	Total Phosphorus	mg/L	0.020	
NNR01	W1780	81-1234	09/18/08	10:12	Total Phosphorus	mg/L	0.014	
NNR01	W1780	81-0523	05/15/08	9:40	Dissolved Reactive Phosphorus	mg/L	0.013	
NNR01	W1780	81-0663	06/12/08	10:58	Dissolved Reactive Phosphorus	mg/L	0.005	
NNR01	W1780	81-0854	07/17/08	9:55	Dissolved Reactive Phosphorus	mg/L	<0.005	
NNR01	W1780	81-1048	08/14/08	10:05	Dissolved Reactive Phosphorus	mg/L	<0.006	
NNR01	W1780	81-1234	09/18/08	10:12	Dissolved Reactive Phosphorus	mg/L	<0.005	
NNR01	W1780	81-0523	05/15/08	9:40	Turbidity	NTU	2.3	
NNR01	W1780	81-0663	06/12/08	10:58	Turbidity	NTU	2.1	
NNR01	W1780	81-0854	07/17/08	9:55	Turbidity	NTU	1.8	
NNR01	W1780	81-1048	08/14/08	10:05	Turbidity	NTU	2.4	
NNR01	W1780	81-1234	09/18/08	10:12	Turbidity	NTU	2.4	
NNR01	W1780	81-0523	05/15/08	9:40	True Color	PCU	<15	
NNR01	W1780	81-0663	06/12/08	10:58	True Color	PCU	23	
NNR01	W1780	81-0854	07/17/08	9:55	True Color	PCU	20	
NNR01	W1780	81-1048	08/14/08	10:05	True Color	PCU	41	
NNR01	W1780	81-1234	09/18/08	10:12	True Color	PCU	34	
NNR01	W1780	81-0523	05/15/08	9:40	Hardness	mg/L	22	
NNR01	W1780	81-0854	07/17/08	9:55	Hardness	mg/L	82	
NNR01	W1780	81-1248	10/01/08	11:45	Hardness	mg/L as CaCO3	19	
NNR01	W1780	81-1260	10/03/08	11:35	Hardness	mg/L as CaCO3	19	
NNR01	W1780	81-1270	10/07/08	10:50	Hardness	mg/L as CaCO3	22	
NNR01	W1780	81-1280	11/12/08	11:40	Hardness	mg/L as CaCO3	27	
NNR01	W1780	81-1291	11/14/08	11:30	Hardness	mg/L as CaCO3	25	
NNR01	W1780	81-1301	11/18/08	11:25	Hardness	mg/L as CaCO3	19	
NNR01	W1780	81-1248	10/01/08	11:45	Aluminum - Dissolved	µg/L	<50	
NNR01	W1780	81-1260	10/03/08	11:35	Aluminum - Dissolved	µg/L	<50	
NNR01	W1780	81-1270	10/07/08	10:50	Aluminum - Dissolved	µg/L	55	
NNR01	W1780	81-1280	11/12/08	11:40	Aluminum - Dissolved	µg/L	51	
NNR01	W1780	81-1291	11/14/08	11:30	Aluminum - Dissolved	µg/L	<50	
NNR01	W1780	81-1301	11/18/08	11:25	Aluminum - Dissolved	µg/L	66	
NNR01	W1780	81-1248	10/01/08	11:45	Antimony - Dissolved	µg/L	<0.16	
NNR01	W1780	81-1260	10/03/08	11:35	Antimony - Dissolved	µg/L	<0.15	
NNR01	W1780	81-1270	10/07/08	10:50	Antimony - Dissolved	µg/L	0.16	
NNR01	W1780	81-1280	11/12/08	11:40	Antimony - Dissolved	µg/L	0.15	
NNR01	W1780	81-1291	11/14/08	11:30	Antimony - Dissolved	µg/L	<0.15	
NNR01	W1780	81-1301	11/18/08	11:25	Antimony - Dissolved	µg/L	<0.15	
NNR01	W1780	81-1248	10/01/08	11:45	Arsenic - Dissolved	µg/L	0.66	
NNR01	W1780	81-1260	10/03/08	11:35	Arsenic - Dissolved	µg/L	0.89	
NNR01	W1780	81-1270	10/07/08	10:50	Arsenic - Dissolved	µg/L	0.85	
NNR01	W1780	81-1280	11/12/08	11:40	Arsenic - Dissolved	µg/L	0.79	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
NNR01	W1780	81-1291	11/14/08	11:30	Arsenic - Dissolved	µg/L	0.79	
NNR01	W1780	81-1301	11/18/08	11:25	Arsenic - Dissolved	µg/L	0.67	
NNR01	W1780	81-1248	10/01/08	11:45	Beryllium - Dissolved	µg/L	<0.20	
NNR01	W1780	81-1260	10/03/08	11:35	Beryllium - Dissolved	µg/L	<0.20	
NNR01	W1780	81-1270	10/07/08	10:50	Beryllium - Dissolved	µg/L	<0.20	
NNR01	W1780	81-1280	11/12/08	11:40	Beryllium - Dissolved	µg/L	<0.20	
NNR01	W1780	81-1291	11/14/08	11:30	Beryllium - Dissolved	µg/L	<0.20	
NNR01	W1780	81-1301	11/18/08	11:25	Beryllium - Dissolved	µg/L	<0.20	
NNR01	W1780	81-1248	10/01/08	11:45	Cadmium - Dissolved	µg/L	<0.13	
NNR01	W1780	81-1260	10/03/08	11:35	Cadmium - Dissolved	µg/L	<0.13	
NNR01	W1780	81-1270	10/07/08	10:50	Cadmium - Dissolved	µg/L	<0.13	
NNR01	W1780	81-1280	11/12/08	11:40	Cadmium - Dissolved	µg/L	<0.13	
NNR01	W1780	81-1291	11/14/08	11:30	Cadmium - Dissolved	µg/L	<0.13	
NNR01	W1780	81-1301	11/18/08	11:25	Cadmium - Dissolved	µg/L	<0.13	
NNR01	W1780	81-1248	10/01/08	11:45	Calcium - Dissolved	mg/L	6.0	
NNR01	W1780	81-1260	10/03/08	11:35	Calcium - Dissolved	mg/L	6.0	
NNR01	W1780	81-1270	10/07/08	10:50	Calcium - Dissolved	mg/L	7.0	
NNR01	W1780	81-1280	11/12/08	11:40	Calcium - Dissolved	mg/L	8.9	
NNR01	W1780	81-1291	11/14/08	11:30	Calcium - Dissolved	mg/L	8.0	
NNR01	W1780	81-1301	11/18/08	11:25	Calcium - Dissolved	mg/L	5.8	
NNR01	W1780	81-1248	10/01/08	11:45	Chromium - Dissolved	µg/L	<0.22	
NNR01	W1780	81-1260	10/03/08	11:35	Chromium - Dissolved	µg/L	<0.22	
NNR01	W1780	81-1270	10/07/08	10:50	Chromium - Dissolved	µg/L	<0.22	
NNR01	W1780	81-1280	11/12/08	11:40	Chromium - Dissolved	µg/L	<0.22	
NNR01	W1780	81-1291	11/14/08	11:30	Chromium - Dissolved	µg/L	<0.22	
NNR01	W1780	81-1301	11/18/08	11:25	Chromium - Dissolved	µg/L	<0.22	
NNR01	W1780	81-1248	10/01/08	11:45	Copper - Dissolved	µg/L	1.1	
NNR01	W1780	81-1260	10/03/08	11:35	Copper - Dissolved	µg/L	1.3	
NNR01	W1780	81-1270	10/07/08	10:50	Copper - Dissolved	µg/L	1.2	d
NNR01	W1780	81-1280	11/12/08	11:40	Copper - Dissolved	µg/L	1.2	a, b
NNR01	W1780	81-1291	11/14/08	11:30	Copper - Dissolved	µg/L	1.1	
NNR01	W1780	81-1301	11/18/08	11:25	Copper - Dissolved	µg/L	2.0	
NNR01	W1780	81-1248	10/01/08	11:45	Lead - Dissolved	µg/L	0.31	
NNR01	W1780	81-1260	10/03/08	11:35	Lead - Dissolved	µg/L	0.31	
NNR01	W1780	81-1270	10/07/08	10:50	Lead - Dissolved	µg/L	0.29	
NNR01	W1780	81-1280	11/12/08	11:40	Lead - Dissolved	µg/L	0.24	
NNR01	W1780	81-1291	11/14/08	11:30	Lead - Dissolved	µg/L	0.16	
NNR01	W1780	81-1301	11/18/08	11:25	Lead - Dissolved	µg/L	0.30	
NNR01	W1780	81-1248	10/01/08	11:45	Magnesium - Dissolved	mg/L	1.0	
NNR01	W1780	81-1260	10/03/08	11:35	Magnesium - Dissolved	mg/L	1.0	
NNR01	W1780	81-1270	10/07/08	10:50	Magnesium - Dissolved	mg/L	1.2	
NNR01	W1780	81-1280	11/12/08	11:40	Magnesium - Dissolved	mg/L	1.3	
NNR01	W1780	81-1291	11/14/08	11:30	Magnesium - Dissolved	mg/L	1.3	
NNR01	W1780	81-1301	11/18/08	11:25	Magnesium - Dissolved	mg/L	1.1	
NNR01	W1780	81-1248	10/01/08	11:45	Nickel - Dissolved	µg/L	0.78	
NNR01	W1780	81-1260	10/03/08	11:35	Nickel - Dissolved	µg/L	0.75	
NNR01	W1780	81-1270	10/07/08	10:50	Nickel - Dissolved	µg/L	0.81	
NNR01	W1780	81-1280	11/12/08	11:40	Nickel - Dissolved	µg/L	0.77	
NNR01	W1780	81-1291	11/14/08	11:30	Nickel - Dissolved	µg/L	0.65	
NNR01	W1780	81-1301	11/18/08	11:25	Nickel - Dissolved	µg/L	0.65	
NNR01	W1780	81-1248	10/01/08	11:45	Selenium - Dissolved	µg/L	<2.6	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
NNR01	W1780	81-1260	10/03/08	11:35	Selenium - Dissolved	µg/L	<2.6	
NNR01	W1780	81-1270	10/07/08	10:50	Selenium - Dissolved	µg/L	<2.6	
NNR01	W1780	81-1280	11/12/08	11:40	Selenium - Dissolved	µg/L	<2.6	
NNR01	W1780	81-1291	11/14/08	11:30	Selenium - Dissolved	µg/L	<2.6	
NNR01	W1780	81-1301	11/18/08	11:25	Selenium - Dissolved	µg/L	<2.6	
NNR01	W1780	81-1248	10/01/08	11:45	Silver - Dissolved	µg/L	<0.13	
NNR01	W1780	81-1260	10/03/08	11:35	Silver - Dissolved	µg/L	<0.13	
NNR01	W1780	81-1270	10/07/08	10:50	Silver - Dissolved	µg/L	<0.13	
NNR01	W1780	81-1280	11/12/08	11:40	Silver - Dissolved	µg/L	<0.25	
NNR01	W1780	81-1291	11/14/08	11:30	Silver - Dissolved	µg/L	<0.25	
NNR01	W1780	81-1301	11/18/08	11:25	Silver - Dissolved	µg/L	<0.25	
NNR01	W1780	81-1248	10/01/08	11:45	Thallium - Dissolved	µg/L	<0.20	
NNR01	W1780	81-1260	10/03/08	11:35	Thallium - Dissolved	µg/L	<0.16	
NNR01	W1780	81-1270	10/07/08	10:50	Thallium - Dissolved	µg/L	<0.16	
NNR01	W1780	81-1280	11/12/08	11:40	Thallium - Dissolved	µg/L	<0.16	
NNR01	W1780	81-1291	11/14/08	11:30	Thallium - Dissolved	µg/L	<0.16	
NNR01	W1780	81-1301	11/18/08	11:25	Thallium - Dissolved	µg/L	<0.16	
NNR01	W1780	81-1248	10/01/08	11:45	Zinc - Dissolved	µg/L	2.8	b
NNR01	W1780	81-1260	10/03/08	11:35	Zinc - Dissolved	µg/L	3.3	b
NNR01	W1780	81-1270	10/07/08	10:50	Zinc - Dissolved	µg/L	3.0	b
NNR01	W1780	81-1280	11/12/08	11:40	Zinc - Dissolved	µg/L	2.9	b
NNR01	W1780	81-1291	11/14/08	11:30	Zinc - Dissolved	µg/L	2.6	
NNR01	W1780	81-1301	11/18/08	11:25	Zinc - Dissolved	µg/L	3.1	
NNR04	W1781	81-0503	05/15/08	8:15	*E. coli*	CFU/100mL	90	
NNR04	W1781	81-0643	06/12/08	9:00	*E. coli*	CFU/100mL	45	
NNR04	W1781	81-0832	07/17/08	8:38	*E. coli*	CFU/100mL	160	
NNR04	W1781	81-1028	08/14/08	8:32	*E. coli*	CFU/100mL	380	
NNR04	W1781	81-1122	09/04/08	9:22	*E. coli*	CFU/100mL	110	
NNR04	W1781	81-1214	09/18/08	8:38	*E. coli*	CFU/100mL	470	
NNR04	W1781	81-0503	05/15/08	8:15	Ammonia-N	mg/L	1.2	
NNR04	W1781	81-0643	06/12/08	9:00	Ammonia-N	mg/L	0.32	
NNR04	W1781	81-0832	07/17/08	8:38	Ammonia-N	mg/L	0.05	
NNR04	W1781	81-1028	08/14/08	8:32	Ammonia-N	mg/L	0.05	
NNR04	W1781	81-1214	09/18/08	8:38	Ammonia-N	mg/L	0.05	
NNR04	W1781	81-0503	05/15/08	8:15	Nitrate/Nitrite-N	mg/L	0.96	
NNR04	W1781	81-0643	06/12/08	9:00	Nitrate/Nitrite-N	mg/L	1.4	
NNR04	W1781	81-0832	07/17/08	8:38	Nitrate/Nitrite-N	mg/L	2.0	
NNR04	W1781	81-1028	08/14/08	8:32	Nitrate/Nitrite-N	mg/L	0.91	
NNR04	W1781	81-1214	09/18/08	8:38	Nitrate/Nitrite-N	mg/L	1.5	a
NNR04	W1781	81-0503	05/15/08	8:15	Total Nitrogen	mg/L	2.6	
NNR04	W1781	81-0643	06/12/08	9:00	Total Nitrogen	mg/L	2.3	
NNR04	W1781	81-0832	07/17/08	8:38	Total Nitrogen	mg/L	2.6	
NNR04	W1781	81-1028	08/14/08	8:32	Total Nitrogen	mg/L	1.4	
NNR04	W1781	81-1214	09/18/08	8:38	Total Nitrogen	mg/L	1.8	
NNR04	W1781	81-0503	05/15/08	8:15	Total Phosphorus	mg/L	0.19	
NNR04	W1781	81-0643	06/12/08	9:00	Total Phosphorus	mg/L	0.30	
NNR04	W1781	81-0832	07/17/08	8:38	Total Phosphorus	mg/L	0.25	
NNR04	W1781	81-1028	08/14/08	8:32	Total Phosphorus	mg/L	0.066	
NNR04	W1781	81-1214	09/18/08	8:38	Total Phosphorus	mg/L	0.056	
NNR04	W1781	81-0503	05/15/08	8:15	Dissolved Reactive Phosphorus	mg/L	0.12	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
NNR04	W1781	81-0643	06/12/08	9:00	Dissolved Reactive Phosphorus	mg/L	0.19	
NNR04	W1781	81-0832	07/17/08	8:38	Dissolved Reactive Phosphorus	mg/L	0.16	
NNR04	W1781	81-1028	08/14/08	8:32	Dissolved Reactive Phosphorus	mg/L	0.018	
NNR04	W1781	81-1214	09/18/08	8:38	Dissolved Reactive Phosphorus	mg/L	0.022	
NNR04	W1781	81-0503	05/15/08	8:15	Turbidity	NTU	2.7	b
NNR04	W1781	81-0643	06/12/08	9:00	Turbidity	NTU	5.2	
NNR04	W1781	81-0832	07/17/08	8:38	Turbidity	NTU	2.7	
NNR04	W1781	81-1028	08/14/08	8:32	Turbidity	NTU	4.6	
NNR04	W1781	81-1214	09/18/08	8:38	Turbidity	NTU	3.4	
NNR04	W1781	81-0503	05/15/08	8:15	True Color	PCU	<15	
NNR04	W1781	81-0643	06/12/08	9:00	True Color	PCU	15	
NNR04	W1781	81-0832	07/17/08	8:38	True Color	PCU	21	d
NNR04	W1781	81-1028	08/14/08	8:32	True Color	PCU	46	
NNR04	W1781	81-1214	09/18/08	8:38	True Color	PCU	22	
NON00	W1813	81-0509	05/15/08	9:54	*E. coli*	CFU/100mL	62	
NON00	W1813	81-0649	06/12/08	10:50	*E. coli*	CFU/100mL	110	
NON00	W1813	81-0840	07/17/08	10:43	*E. coli*	CFU/100mL	140	
NON00	W1813	81-1034	08/14/08	10:19	*E. coli*	CFU/100mL	80	
NON00	W1813	81-1130	09/04/08	10:58	*E. coli*	CFU/100mL	97	
NON00	W1813	81-1220	09/18/08	10:02	*E. coli*	CFU/100mL	45	
NON00	W1813	81-0509	05/15/08	9:54	Ammonia-N	mg/L	0.03	
NON00	W1813	81-0649	06/12/08	10:50	Ammonia-N	mg/L	0.11	
NON00	W1813	81-0840	07/17/08	10:43	Ammonia-N	mg/L	0.03	
NON00	W1813	81-1034	08/14/08	10:19	Ammonia-N	mg/L	<0.02	
NON00	W1813	81-1220	09/18/08	10:02	Ammonia-N	mg/L	0.02	
NON00	W1813	81-0509	05/15/08	9:54	Total Nitrogen	mg/L	0.48	
NON00	W1813	81-0649	06/12/08	10:50	Total Nitrogen	mg/L	0.61	
NON00	W1813	81-0840	07/17/08	10:43	Total Nitrogen	mg/L	0.46	
NON00	W1813	81-1034	08/14/08	10:19	Total Nitrogen	mg/L	0.33	
NON00	W1813	81-1220	09/18/08	10:02	Total Nitrogen	mg/L	0.38	
NON00	W1813	81-0509	05/15/08	9:54	Total Phosphorus	mg/L	0.039	
NON00	W1813	81-0649	06/12/08	10:50	Total Phosphorus	mg/L	0.043	
NON00	W1813	81-0840	07/17/08	10:43	Total Phosphorus	mg/L	0.027	
NON00	W1813	81-1034	08/14/08	10:19	Total Phosphorus	mg/L	0.020	
NON00	W1813	81-1220	09/18/08	10:02	Total Phosphorus	mg/L	0.029	
NON00	W1813	81-0509	05/15/08	9:54	Turbidity	NTU	5.3	b
NON00	W1813	81-0649	06/12/08	10:50	Turbidity	NTU	6.0	
NON00	W1813	81-0840	07/17/08	10:43	Turbidity	NTU	3.3	
NON00	W1813	81-1034	08/14/08	10:19	Turbidity	NTU	1.8	
NON00	W1813	81-1220	09/18/08	10:02	Turbidity	NTU	2.7	
NON00	W1813	81-0509	05/15/08	9:54	True Color	PCU	22	
NON00	W1813	81-0649	06/12/08	10:50	True Color	PCU	33	
NON00	W1813	81-0840	07/17/08	10:43	True Color	PCU	48	
NON00	W1813	81-1034	08/14/08	10:19	True Color	PCU	31	
NON00	W1813	81-1220	09/18/08	10:02	True Color	PCU	29	
NS17	W0482	81-0500	05/15/08	7:50	*E. coli*	CFU/100mL	14	
NS17	W0482	81-0640	06/12/08	8:30	*E. coli*	CFU/100mL	42	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
NS17	W0482	81-0831	07/17/08	8:20	*E. coli*	CFU/100mL	61	
NS17	W0482	81-1025	08/14/08	8:09	*E. coli*	CFU/100mL	67	
NS17	W0482	81-1121	09/04/08	9:05	*E. coli*	CFU/100mL	150	
NS17	W0482	81-1211	09/18/08	8:18	*E. coli*	CFU/100mL	73	
NS17	W0482	81-0500	05/15/08	7:50	Ammonia-N	mg/L	<0.02	
NS17	W0482	81-0640	06/12/08	8:30	Ammonia-N	mg/L	0.48	
NS17	W0482	81-0831	07/17/08	8:20	Ammonia-N	mg/L	0.03	
NS17	W0482	81-1025	08/14/08	8:09	Ammonia-N	mg/L	<0.02	
NS17	W0482	81-1211	09/18/08	8:18	Ammonia-N	mg/L	0.04	
NS17	W0482	81-0500	05/15/08	7:50	Nitrate/Nitrite-N	mg/L	0.30	
NS17	W0482	81-0640	06/12/08	8:30	Nitrate/Nitrite-N	mg/L	0.14	
NS17	W0482	81-0831	07/17/08	8:20	Nitrate/Nitrite-N	mg/L	0.10	
NS17	W0482	81-1025	08/14/08	8:09	Nitrate/Nitrite-N	mg/L	0.11	
NS17	W0482	81-1211	09/18/08	8:18	Nitrate/Nitrite-N	mg/L	0.54	a
NS17	W0482	81-0500	05/15/08	7:50	Total Nitrogen	mg/L	0.52	
NS17	W0482	81-0640	06/12/08	8:30	Total Nitrogen	mg/L	0.96	
NS17	W0482	81-0831	07/17/08	8:20	Total Nitrogen	mg/L	0.32	
NS17	W0482	81-1025	08/14/08	8:09	Total Nitrogen	mg/L	0.25	
NS17	W0482	81-1211	09/18/08	8:18	Total Nitrogen	mg/L	0.68	
NS17	W0482	81-0500	05/15/08	7:50	Total Phosphorus	mg/L	0.022	
NS17	W0482	81-0640	06/12/08	8:30	Total Phosphorus	mg/L	0.059	
NS17	W0482	81-0831	07/17/08	8:20	Total Phosphorus	mg/L	0.014	
NS17	W0482	81-1025	08/14/08	8:09	Total Phosphorus	mg/L	0.007	
NS17	W0482	81-1211	09/18/08	8:18	Total Phosphorus	mg/L	0.014	
NS17	W0482	81-0500	05/15/08	7:50	Dissolved Reactive Phosphorus	mg/L	<0.005	
NS17	W0482	81-0640	06/12/08	8:30	Dissolved Reactive Phosphorus	mg/L	0.009	
NS17	W0482	81-0831	07/17/08	8:20	Dissolved Reactive Phosphorus	mg/L	<0.005	
NS17	W0482	81-1025	08/14/08	8:09	Dissolved Reactive Phosphorus	mg/L	<0.006	
NS17	W0482	81-1211	09/18/08	8:18	Dissolved Reactive Phosphorus	mg/L	0.010	d
NS17	W0482	81-0500	05/15/08	7:50	Turbidity	NTU	1.6	b, d
NS17	W0482	81-0640	06/12/08	8:30	Turbidity	NTU	2.1	
NS17	W0482	81-0831	07/17/08	8:20	Turbidity	NTU	2.0	
NS17	W0482	81-1025	08/14/08	8:09	Turbidity	NTU	0.8	d
NS17	W0482	81-1211	09/18/08	8:18	Turbidity	NTU	0.8	
NS17	W0482	81-0500	05/15/08	7:50	True Color	PCU	<15	
NS17	W0482	81-0640	06/12/08	8:30	True Color	PCU	22	d
NS17	W0482	81-0831	07/17/08	8:20	True Color	PCU	<15	
NS17	W0482	81-1025	08/14/08	8:09	True Color	PCU	<15	
NS17	W0482	81-1211	09/18/08	8:18	True Color	PCU	<15	
NT34	W0992	81-0519	05/15/08	8:43	*E. coli*	CFU/100mL	14	
NT34	W0992	81-0659	06/12/08	9:38	*E. coli*	CFU/100mL	110	
NT34	W0992	81-0850	07/17/08	9:00	*E. coli*	CFU/100mL	160	
NT34	W0992	81-1044	08/14/08	9:15	*E. coli*	CFU/100mL	35	
NT34	W0992	81-1138	09/04/08	9:40	*E. coli*	CFU/100mL	77	
NT34	W0992	81-1230	09/18/08	9:15	*E. coli*	CFU/100mL	39	
NT68	W0486	81-0498	05/13/08	11:59	*E. coli*	CFU/100mL	24	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
NT68	W0486	81-0638	06/10/08	11:20	*E. coli*	CFU/100mL	150	
NT68	W0486	81-0829	07/15/08	11:35	*E. coli*	CFU/100mL	120	
NT68	W0486	81-1021	08/12/08	11:50	*E. coli*	CFU/100mL	150	
NT68	W0486	81-1022	08/12/08	11:55	*E. coli*	CFU/100mL	140	
NT68	W0486	81-1023	08/12/08	11:55	*E. coli*	CFU/100mL	130	
NT68	W0486	81-1119	09/02/08	11:51	*E. coli*	CFU/100mL	120	
NT68	W0486	81-1209	09/16/08	11:40	*E. coli*	CFU/100mL	67	
NT68	W0486	81-0498	05/13/08	11:59	Ammonia-N	mg/L	<0.02	
NT68	W0486	81-0638	06/10/08	11:20	Ammonia-N	mg/L	0.03	
NT68	W0486	81-0829	07/15/08	11:35	Ammonia-N	mg/L	0.02	
NT68	W0486	81-1021	08/12/08	11:50	Ammonia-N	mg/L	<0.02	
NT68	W0486	81-1209	09/16/08	11:40	Ammonia-N	mg/L	<0.02	
NT68	W0486	81-0498	05/13/08	11:59	Total Nitrogen	mg/L	0.30	
NT68	W0486	81-0638	06/10/08	11:20	Total Nitrogen	mg/L	0.42	
NT68	W0486	81-0829	07/15/08	11:35	Total Nitrogen	mg/L	0.41	
NT68	W0486	81-1021	08/12/08	11:50	Total Nitrogen	mg/L	0.34	
NT68	W0486	81-1209	09/16/08	11:40	Total Nitrogen	mg/L	0.30	
NT68	W0486	81-0498	05/13/08	11:59	Total Phosphorus	mg/L	0.010	
NT68	W0486	81-0638	06/10/08	11:20	Total Phosphorus	mg/L	0.013	
NT68	W0486	81-0829	07/15/08	11:35	Total Phosphorus	mg/L	0.012	
NT68	W0486	81-1021	08/12/08	11:50	Total Phosphorus	mg/L	0.013	
NT68	W0486	81-1209	09/16/08	11:40	Total Phosphorus	mg/L	0.011	
NT68	W0486	81-0498	05/13/08	11:59	Turbidity	NTU	1.5	
NT68	W0486	81-0638	06/10/08	11:20	Turbidity	NTU	1.7	b
NT68	W0486	81-0829	07/15/08	11:35	Turbidity	NTU	1.3	
NT68	W0486	81-1021	08/12/08	11:50	Turbidity	NTU	1.9	
NT68	W0486	81-1209	09/16/08	11:40	Turbidity	NTU	0.9	
NT68	W0486	81-0498	05/13/08	11:59	True Color	PCU	24	
NT68	W0486	81-0638	06/10/08	11:20	True Color	PCU	21	
NT68	W0486	81-0829	07/15/08	11:35	True Color	PCU	30	
NT68	W0486	81-1021	08/12/08	11:50	True Color	PCU	48	
NT68	W0486	81-1209	09/16/08	11:40	True Color	PCU	47	
NT68	W0486	81-0498	05/13/08	11:59	Hardness	mg/L	<20	
NT68	W0486	81-0829	07/15/08	11:35	Hardness	mg/L	26	
PEB01	W1846	81-0484	05/13/08	12:25	*E. coli*	CFU/100mL	48	
PEB01	W1846	81-0624	06/10/08	12:25	*E. coli*	CFU/100mL	45	
PEB01	W1846	81-0815	07/15/08	11:51	*E. coli*	CFU/100mL	210	
PEB01	W1846	81-1007	08/12/08	11:53	*E. coli*	CFU/100mL	300	
PEB01	W1846	81-1105	09/02/08	11:28	*E. coli*	CFU/100mL	<3	
PEB01	W1846	81-1195	09/16/08	12:20	*E. coli*	CFU/100mL	10	
PH00	W0991	81-0522	05/15/08	9:30	*E. coli*	CFU/100mL	5	
PH00	W0991	81-0662	06/12/08	10:43	*E. coli*	CFU/100mL	280	
PH00	W0991	81-0853	07/17/08	9:45	*E. coli*	CFU/100mL	180	
PH00	W0991	81-1047	08/14/08	9:55	*E. coli*	CFU/100mL	48	
PH00	W0991	81-1141	09/04/08	10:20	*E. coli*	CFU/100mL	55	
PH00	W0991	81-1233	09/18/08	10:04	*E. coli*	CFU/100mL	110	
PH01	W1809	81-0521	05/15/08	9:17	*E. coli*	CFU/100mL	10	
PH01	W1809	81-0661	06/12/08	10:24	*E. coli*	CFU/100mL	67	
PH01	W1809	81-0852	07/17/08	9:30	*E. coli*	CFU/100mL	23	
PH01	W1809	81-1046	08/14/08	9:40	*E. coli*	CFU/100mL	32	
PH01	W1809	81-1140	09/04/08	10:06	*E. coli*	CFU/100mL	23	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
PH01	W1809	81-1232	09/18/08	9:45	*E. coli*	CFU/100mL	19	
PH01	W1809	81-0521	05/15/08	9:17	Ammonia-N	mg/L	<0.02	
PH01	W1809	81-0661	06/12/08	10:24	Ammonia-N	mg/L	0.04	
PH01	W1809	81-0852	07/17/08	9:30	Ammonia-N	mg/L	<0.02	
PH01	W1809	81-1046	08/14/08	9:40	Ammonia-N	mg/L	<0.02	
PH01	W1809	81-1232	09/18/08	9:45	Ammonia-N	mg/L	<0.02	
PH01	W1809	81-0521	05/15/08	9:17	Total Nitrogen	mg/L	0.23	
PH01	W1809	81-0661	06/12/08	10:24	Total Nitrogen	mg/L	0.45	
PH01	W1809	81-0852	07/17/08	9:30	Total Nitrogen	mg/L	0.43	
PH01	W1809	81-1046	08/14/08	9:40	Total Nitrogen	mg/L	0.27	
PH01	W1809	81-1232	09/18/08	9:45	Total Nitrogen	mg/L	0.25	
PH01	W1809	81-0521	05/15/08	9:17	Total Phosphorus	mg/L	0.008	
PH01	W1809	81-0661	06/12/08	10:24	Total Phosphorus	mg/L	0.025	
PH01	W1809	81-0852	07/17/08	9:30	Total Phosphorus	mg/L	0.017	
PH01	W1809	81-1046	08/14/08	9:40	Total Phosphorus	mg/L	0.015	
PH01	W1809	81-1232	09/18/08	9:45	Total Phosphorus	mg/L	0.011	
PH01	W1809	81-0521	05/15/08	9:17	Turbidity	NTU	0.9	
PH01	W1809	81-0661	06/12/08	10:24	Turbidity	NTU	1.7	
PH01	W1809	81-0852	07/17/08	9:30	Turbidity	NTU	1.0	
PH01	W1809	81-1046	08/14/08	9:40	Turbidity	NTU	1.3	
PH01	W1809	81-1232	09/18/08	9:45	Turbidity	NTU	0.8	
PH01	W1809	81-0521	05/15/08	9:17	True Color	PCU	<15	
PH01	W1809	81-0661	06/12/08	10:24	True Color	PCU	39	
PH01	W1809	81-0852	07/17/08	9:30	True Color	PCU	29	
PH01	W1809	81-1046	08/14/08	9:40	True Color	PCU	32	
PH01	W1809	81-1232	09/18/08	9:45	True Color	PCU	20	
PHB01	W1835	81-0528	05/15/08	11:00	*E. coli*	CFU/100mL	10	
PHB01	W1835	81-0668	06/12/08	11:51	*E. coli*	CFU/100mL	10	
PHB01	W1835	81-0859	07/17/08	11:00	*E. coli*	CFU/100mL	26	
PHB01	W1835	81-1053	08/14/08	11:05	*E. coli*	CFU/100mL	13	
PHB01	W1835	81-1149	09/04/08	11:42	*E. coli*	CFU/100mL	19	
PHB01	W1835	81-1239	09/18/08	11:20	*E. coli*	CFU/100mL	10	
QXR01	W1821	81-0471	05/13/08	8:00	*E. coli*	CFU/100mL	10	d
QXR01	W1821	81-0611	06/10/08	8:15	*E. coli*	CFU/100mL	29	
QXR01	W1821	81-0802	07/15/08	8:10	*E. coli*	CFU/100mL	23	
QXR01	W1821	81-0994	08/12/08	8:20	*E. coli*	CFU/100mL	61	
QXR01	W1821	81-1092	09/02/08	8:07	*E. coli*	CFU/100mL	19	
QXR01	W1821	81-1180	09/16/08	8:20	*E. coli*	CFU/100mL	65	
QXR01	W1821	81-0471	05/13/08	8:00	Ammonia-N	mg/L	<0.02	
QXR01	W1821	81-0611	06/10/08	8:15	Ammonia-N	mg/L	0.03	d
QXR01	W1821	81-0802	07/15/08	8:10	Ammonia-N	mg/L	<0.02	
QXR01	W1821	81-0994	08/12/08	8:20	Ammonia-N	mg/L	0.02	
QXR01	W1821	81-1180	09/16/08	8:20	Ammonia-N	mg/L	<0.02	
QXR01	W1821	81-0471	05/13/08	8:00	Total Nitrogen	mg/L	0.36	
QXR01	W1821	81-0611	06/10/08	8:15	Total Nitrogen	mg/L	0.67	
QXR01	W1821	81-0802	07/15/08	8:10	Total Nitrogen	mg/L	0.55	
QXR01	W1821	81-0994	08/12/08	8:20	Total Nitrogen	mg/L	0.61	
QXR01	W1821	81-1180	09/16/08	8:20	Total Nitrogen	mg/L	0.46	
QXR01	W1821	81-0471	05/13/08	8:00	Total Phosphorus	mg/L	0.009	
QXR01	W1821	81-0611	06/10/08	8:15	Total Phosphorus	mg/L	0.020	
QXR01	W1821	81-0802	07/15/08	8:10	Total Phosphorus	mg/L	0.015	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
QXR01	W1821	81-0994	08/12/08	8:20	Total Phosphorus	mg/L	0.029	
QXR01	W1821	81-1180	09/16/08	8:20	Total Phosphorus	mg/L	0.020	
QXR01	W1821	81-0471	05/13/08	8:00	Turbidity	NTU	0.9	
QXR01	W1821	81-0611	06/10/08	8:15	Turbidity	NTU	2.0	b, d
QXR01	W1821	81-0802	07/15/08	8:10	Turbidity	NTU	1.6	d
QXR01	W1821	81-0994	08/12/08	8:20	Turbidity	NTU	2.6	d
QXR01	W1821	81-1180	09/16/08	8:20	Turbidity	NTU	1.9	
QXR01	W1821	81-0471	05/13/08	8:00	True Color	PCU	31	
QXR01	W1821	81-0611	06/10/08	8:15	True Color	PCU	37	
QXR01	W1821	81-0802	07/15/08	8:10	True Color	PCU	35	
QXR01	W1821	81-0994	08/12/08	8:20	True Color	PCU	84	
QXR01	W1821	81-1180	09/16/08	8:20	True Color	PCU	67	
SQ08	W1283	81-0489	05/13/08	9:31	*E. coli*	CFU/100mL	24	
SQ08	W1283	81-0629	06/10/08	9:20	*E. coli*	CFU/100mL	100	m
SQ08	W1283	81-0820	07/15/08	9:30	*E. coli*	CFU/100mL	65	
SQ08	W1283	81-1012	08/12/08	9:45	*E. coli*	CFU/100mL	200	
SQ08	W1283	81-1110	09/02/08	9:35	*E. coli*	CFU/100mL	80	
SQ08	W1283	81-1200	09/16/08	9:40	*E. coli*	CFU/100mL	170	
SQ08	W1283	81-0489	05/13/08	9:31	Ammonia-N	mg/L	0.02	
SQ08	W1283	81-0629	06/10/08	9:20	Ammonia-N	mg/L	0.05	
SQ08	W1283	81-0820	07/15/08	9:30	Ammonia-N	mg/L	0.07	
SQ08	W1283	81-1012	08/12/08	9:45	Ammonia-N	mg/L	<0.02	
SQ08	W1283	81-1200	09/16/08	9:40	Ammonia-N	mg/L	0.05	
SQ08	W1283	81-0489	05/13/08	9:31	Total Nitrogen	mg/L	0.49	
SQ08	W1283	81-0629	06/10/08	9:20	Total Nitrogen	mg/L	0.74	
SQ08	W1283	81-0820	07/15/08	9:30	Total Nitrogen	mg/L	0.87	
SQ08	W1283	81-1012	08/12/08	9:45	Total Nitrogen	mg/L	0.41	
SQ08	W1283	81-1200	09/16/08	9:40	Total Nitrogen	mg/L	0.45	
SQ08	W1283	81-0489	05/13/08	9:31	Total Phosphorus	mg/L	0.014	
SQ08	W1283	81-0629	06/10/08	9:20	Total Phosphorus	mg/L	0.10	
SQ08	W1283	81-0820	07/15/08	9:30	Total Phosphorus	mg/L	0.026	
SQ08	W1283	81-1012	08/12/08	9:45	Total Phosphorus	mg/L	0.028	
SQ08	W1283	81-1200	09/16/08	9:40	Total Phosphorus	mg/L	0.023	
SQ08	W1283	81-0489	05/13/08	9:31	Turbidity	NTU	2.0	
SQ08	W1283	81-0629	06/10/08	9:20	Turbidity	NTU	1.9	b
SQ08	W1283	81-0820	07/15/08	9:30	Turbidity	NTU	2.7	
SQ08	W1283	81-1012	08/12/08	9:45	Turbidity	NTU	2.7	
SQ08	W1283	81-1200	09/16/08	9:40	Turbidity	NTU	1.9	
SQ08	W1283	81-0489	05/13/08	9:31	True Color	PCU	67	
SQ08	W1283	81-0629	06/10/08	9:20	True Color	PCU	21	
SQ08	W1283	81-0820	07/15/08	9:30	True Color	PCU	50	
SQ08	W1283	81-1012	08/12/08	9:45	True Color	PCU	56	
SQ08	W1283	81-1200	09/16/08	9:40	True Color	PCU	43	
SQC01	W1814	81-0513	05/15/08	11:05	*E. coli*	CFU/100mL	19	
SQC01	W1814	81-0653	06/12/08	12:00	*E. coli*	CFU/100mL	80	
SQC01	W1814	81-0844	07/17/08	11:48	*E. coli*	CFU/100mL	83	
SQC01	W1814	81-1038	08/14/08	11:26	*E. coli*	CFU/100mL	65	
SQC01	W1814	81-1134	09/04/08	12:18	*E. coli*	CFU/100mL	67	
SQC01	W1814	81-1224	09/18/08	10:50	*E. coli*	CFU/100mL	77	
STL01	W0995	81-0504	05/15/08	8:32	*E. coli*	CFU/100mL	100	
STL01	W0995	81-0644	06/12/08	9:30	*E. coli*	CFU/100mL	160	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
STL01	W0995	81-0835	07/17/08	9:07	*E. coli*	CFU/100mL	100	
STL01	W0995	81-1029	08/14/08	8:48	*E. coli*	CFU/100mL	120	
STL01	W0995	81-1123	09/04/08	9:35	*E. coli*	CFU/100mL	200	
STL01	W0995	81-1215	09/18/08	8:54	*E. coli*	CFU/100mL	400	
STL01	W0995	81-0504	05/15/08	8:32	Ammonia-N	mg/L	<0.02	
STL01	W0995	81-0644	06/12/08	9:30	Ammonia-N	mg/L	0.13	
STL01	W0995	81-0835	07/17/08	9:07	Ammonia-N	mg/L	0.03	
STL01	W0995	81-1029	08/14/08	8:48	Ammonia-N	mg/L	0.04	
STL01	W0995	81-1215	09/18/08	8:54	Ammonia-N	mg/L	0.05	
STL01	W0995	81-0504	05/15/08	8:32	Total Nitrogen	mg/L	0.34	
STL01	W0995	81-0644	06/12/08	9:30	Total Nitrogen	mg/L	0.66	
STL01	W0995	81-0835	07/17/08	9:07	Total Nitrogen	mg/L	0.43	
STL01	W0995	81-1029	08/14/08	8:48	Total Nitrogen	mg/L	0.49	
STL01	W0995	81-1215	09/18/08	8:54	Total Nitrogen	mg/L	0.48	
STL01	W0995	81-0504	05/15/08	8:32	Total Phosphorus	mg/L	0.034	
STL01	W0995	81-0644	06/12/08	9:30	Total Phosphorus	mg/L	0.13	
STL01	W0995	81-0835	07/17/08	9:07	Total Phosphorus	mg/L	0.067	
STL01	W0995	81-1029	08/14/08	8:48	Total Phosphorus	mg/L	0.076	
STL01	W0995	81-1215	09/18/08	8:54	Total Phosphorus	mg/L	0.10	
STL01	W0995	81-0504	05/15/08	8:32	Turbidity	NTU	1.7	b
STL01	W0995	81-0644	06/12/08	9:30	Turbidity	NTU	5.2	
STL01	W0995	81-0835	07/17/08	9:07	Turbidity	NTU	3.9	
STL01	W0995	81-1029	08/14/08	8:48	Turbidity	NTU	2.4	
STL01	W0995	81-1215	09/18/08	8:54	Turbidity	NTU	5.1	
STL01	W0995	81-0504	05/15/08	8:32	True Color	PCU	18	
STL01	W0995	81-0644	06/12/08	9:30	True Color	PCU	49	
STL01	W0995	81-0835	07/17/08	9:07	True Color	PCU	48	
STL01	W0995	81-1029	08/14/08	8:48	True Color	PCU	59	
STL01	W0995	81-1215	09/18/08	8:54	True Color	PCU	29	
STL02	W1811	81-0505	05/15/08	8:45	*E. coli*	CFU/100mL	19	
STL02	W1811	81-0645	06/12/08	9:40	*E. coli*	CFU/100mL	58	
STL02	W1811	81-0836	07/17/08	9:28	*E. coli*	CFU/100mL	19	
STL02	W1811	81-1030	08/14/08	9:13	*E. coli*	CFU/100mL	70	
STL02	W1811	81-1124	09/04/08	9:52	*E. coli*	CFU/100mL	29	
STL02	W1811	81-1216	09/18/08	9:05	*E. coli*	CFU/100mL	90	
STW01	W1820	81-0531	05/22/08	8:28	*E. coli*	CFU/100mL	33	
STW01	W1820	81-0669	06/19/08	8:20	*E. coli*	CFU/100mL	100	
STW01	W1820	81-0903	07/24/08	8:30	*E. coli*	CFU/100mL	3300	
STW01	W1820	81-1058	08/21/08	8:25	*E. coli*	CFU/100mL	87	
STW01	W1820	81-0531	05/22/08	8:28	Ammonia-N	mg/L	<0.02	
STW01	W1820	81-0669	06/19/08	8:20	Ammonia-N	mg/L	<0.02	
STW01	W1820	81-0903	07/24/08	8:30	Ammonia-N	mg/L	0.04	p
STW01	W1820	81-1058	08/21/08	8:25	Ammonia-N	mg/L	0.02	
STW01	W1820	81-0531	05/22/08	8:28	Total Nitrogen	mg/L	0.32	
STW01	W1820	81-0669	06/19/08	8:20	Total Nitrogen	mg/L	0.41	
STW01	W1820	81-0903	07/24/08	8:30	Total Nitrogen	mg/L	0.64	h, p
STW01	W1820	81-1058	08/21/08	8:25	Total Nitrogen	mg/L	0.45	
STW01	W1820	81-0531	05/22/08	8:28	Total Phosphorus	mg/L	0.010	
STW01	W1820	81-0669	06/19/08	8:20	Total Phosphorus	mg/L	0.014	
STW01	W1820	81-0903	07/24/08	8:30	Total Phosphorus	mg/L	0.050	h, p
STW01	W1820	81-1058	08/21/08	8:25	Total Phosphorus	mg/L	0.017	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
SUC01	W1816	81-0491	05/13/08	10:20	*E. coli*	CFU/100mL	48	
SUC01	W1816	81-0631	06/10/08	10:00	*E. coli*	CFU/100mL	110	
SUC01	W1816	81-0822	07/15/08	10:10	*E. coli*	CFU/100mL	70	
SUC01	W1816	81-1014	08/12/08	10:25	*E. coli*	CFU/100mL	170	
SUC01	W1816	81-1112	09/02/08	10:21	*E. coli*	CFU/100mL	73	
SUC01	W1816	81-1202	09/16/08	10:15	*E. coli*	CFU/100mL	160	
SUC01	W1816	81-0491	05/13/08	10:20	Ammonia-N	mg/L	0.02	
SUC01	W1816	81-0631	06/10/08	10:00	Ammonia-N	mg/L	0.06	
SUC01	W1816	81-0822	07/15/08	10:10	Ammonia-N	mg/L	0.05	
SUC01	W1816	81-1014	08/12/08	10:25	Ammonia-N	mg/L	0.02	
SUC01	W1816	81-1202	09/16/08	10:15	Ammonia-N	mg/L	<0.02	
SUC01	W1816	81-0491	05/13/08	10:20	Total Nitrogen	mg/L	0.46	
SUC01	W1816	81-0631	06/10/08	10:00	Total Nitrogen	mg/L	0.59	
SUC01	W1816	81-0822	07/15/08	10:10	Total Nitrogen	mg/L	0.51	
SUC01	W1816	81-1014	08/12/08	10:25	Total Nitrogen	mg/L	0.42	
SUC01	W1816	81-1202	09/16/08	10:15	Total Nitrogen	mg/L	0.39	
SUC01	W1816	81-0491	05/13/08	10:20	Total Phosphorus	mg/L	0.019	
SUC01	W1816	81-0631	06/10/08	10:00	Total Phosphorus	mg/L	0.037	
SUC01	W1816	81-0822	07/15/08	10:10	Total Phosphorus	mg/L	0.033	
SUC01	W1816	81-1014	08/12/08	10:25	Total Phosphorus	mg/L	0.028	
SUC01	W1816	81-1202	09/16/08	10:15	Total Phosphorus	mg/L	0.020	
SUC01	W1816	81-0491	05/13/08	10:20	Turbidity	NTU	2.1	
SUC01	W1816	81-0631	06/10/08	10:00	Turbidity	NTU	4.2	b
SUC01	W1816	81-0822	07/15/08	10:10	Turbidity	NTU	3.0	
SUC01	W1816	81-1014	08/12/08	10:25	Turbidity	NTU	1.8	
SUC01	W1816	81-1202	09/16/08	10:15	Turbidity	NTU	1.3	
SUC01	W1816	81-0491	05/13/08	10:20	True Color	PCU	32	
SUC01	W1816	81-0631	06/10/08	10:00	True Color	PCU	29	
SUC01	W1816	81-0822	07/15/08	10:10	True Color	PCU	37	
SUC01	W1816	81-1014	08/12/08	10:25	True Color	PCU	41	
SUC01	W1816	81-1202	09/16/08	10:15	True Color	PCU	33	
SWA01	W1838	81-0475	05/13/08	9:25	*E. coli*	CFU/100mL	10	
SWA01	W1838	81-0615	06/10/08	9:45	*E. coli*	CFU/100mL	23	
SWA01	W1838	81-0806	07/15/08	9:31	*E. coli*	CFU/100mL	16	
SWA01	W1838	81-0998	08/12/08	9:28	*E. coli*	CFU/100mL	100	
SWA01	W1838	81-1094	09/02/08	9:00	*E. coli*	CFU/100mL	32	
SWA01	W1838	81-1184	09/16/08	9:35	*E. coli*	CFU/100mL	35	
TFB01	W1833	81-0525	05/15/08	10:30	*E. coli*	CFU/100mL	19	
TFB01	W1833	81-0665	06/12/08	11:35	*E. coli*	CFU/100mL	6	
TFB01	W1833	81-0856	07/17/08	10:30	*E. coli*	CFU/100mL	3	
TFB01	W1833	81-1050	08/14/08	10:40	*E. coli*	CFU/100mL	32	
TFB01	W1833	81-1144	09/04/08	11:05	*E. coli*	CFU/100mL	<3	
TFB01	W1833	81-1236	09/18/08	10:52	*E. coli*	CFU/100mL	48	
UNK01	W1829	81-0497	05/13/08	11:40	*E. coli*	CFU/100mL	33	
UNK01	W1829	81-0637	06/10/08	11:10	*E. coli*	CFU/100mL	58	
UNK01	W1829	81-0828	07/15/08	11:20	*E. coli*	CFU/100mL	270	
UNK01	W1829	81-1020	08/12/08	11:30	*E. coli*	CFU/100mL	90	
UNK01	W1829	81-1118	09/02/08	11:34	*E. coli*	CFU/100mL	48	
UNK01	W1829	81-1208	09/16/08	11:25	*E. coli*	CFU/100mL	32	
WEK01	W1831	81-0478	05/13/08	10:25	*E. coli*	CFU/100mL	29	
WEK01	W1831	81-0618	06/10/08	10:25	*E. coli*	CFU/100mL	80	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
WEK01	W1831	81-0809	07/15/08	10:10	*E. coli*	CFU/100mL	73	
WEK01	W1831	81-1001	08/12/08	10:15	*E. coli*	CFU/100mL	83	
WEK01	W1831	81-1097	09/02/08	9:52	*E. coli*	CFU/100mL	32	
WEK01	W1831	81-1187	09/16/08	10:34	*E. coli*	CFU/100mL	19	
WHR01	W1808	81-0520	05/15/08	8:55	*E. coli*	CFU/100mL	10	
WHR01	W1808	81-0660	06/12/08	10:00	*E. coli*	CFU/100mL	45	
WHR01	W1808	81-0851	07/17/08	9:15	*E. coli*	CFU/100mL	13	
WHR01	W1808	81-1045	08/14/08	9:23	*E. coli*	CFU/100mL	26	
WHR01	W1808	81-1139	09/04/08	9:50	*E. coli*	CFU/100mL	23	
WHR01	W1808	81-1231	09/18/08	9:25	*E. coli*	CFU/100mL	6	
WHR01	W1808	81-0520	05/15/08	8:55	Ammonia-N	mg/L	<0.02	
WHR01	W1808	81-0660	06/12/08	10:00	Ammonia-N	mg/L	0.04	
WHR01	W1808	81-0851	07/17/08	9:15	Ammonia-N	mg/L	<0.02	
WHR01	W1808	81-1045	08/14/08	9:23	Ammonia-N	mg/L	0.02	
WHR01	W1808	81-1231	09/18/08	9:25	Ammonia-N	mg/L	0.03	
WHR01	W1808	81-0520	05/15/08	8:55	Total Nitrogen	mg/L	0.31	
WHR01	W1808	81-0660	06/12/08	10:00	Total Nitrogen	mg/L	0.51	
WHR01	W1808	81-0851	07/17/08	9:15	Total Nitrogen	mg/L	0.45	
WHR01	W1808	81-1045	08/14/08	9:23	Total Nitrogen	mg/L	0.39	
WHR01	W1808	81-1231	09/18/08	9:25	Total Nitrogen	mg/L	0.37	
WHR01	W1808	81-0520	05/15/08	8:55	Total Phosphorus	mg/L	0.016	
WHR01	W1808	81-0660	06/12/08	10:00	Total Phosphorus	mg/L	0.032	
WHR01	W1808	81-0851	07/17/08	9:15	Total Phosphorus	mg/L	0.020	
WHR01	W1808	81-1045	08/14/08	9:23	Total Phosphorus	mg/L	0.020	
WHR01	W1808	81-1231	09/18/08	9:25	Total Phosphorus	mg/L	0.018	
WHR01	W1808	81-0520	05/15/08	8:55	Turbidity	NTU	1.2	
WHR01	W1808	81-0660	06/12/08	10:00	Turbidity	NTU	2.0	
WHR01	W1808	81-0851	07/17/08	9:15	Turbidity	NTU	1.7	
WHR01	W1808	81-1045	08/14/08	9:23	Turbidity	NTU	1.4	
WHR01	W1808	81-1231	09/18/08	9:25	Turbidity	NTU	2.3	
WHR01	W1808	81-0520	05/15/08	8:55	True Color	PCU	33	
WHR01	W1808	81-0660	06/12/08	10:00	True Color	PCU	57	
WHR01	W1808	81-0851	07/17/08	9:15	True Color	PCU	47	
WHR01	W1808	81-1045	08/14/08	9:23	True Color	PCU	81	
WHR01	W1808	81-1231	09/18/08	9:25	True Color	PCU	59	
WILL01	W1832	81-0527	05/15/08	10:50	*E. coli*	CFU/100mL	52	
WILL01	W1832	81-0667	06/12/08	11:48	*E. coli*	CFU/100mL	260	
WILL01	W1832	81-0858	07/17/08	10:50	*E. coli*	CFU/100mL	330	
WILL01	W1832	81-1052	08/14/08	10:54	*E. coli*	CFU/100mL	140	
WILL01	W1832	81-1148	09/04/08	11:28	*E. coli*	CFU/100mL	45	
WILL01	W1832	81-1238	09/18/08	11:10	*E. coli*	CFU/100mL	23	
WILL01	W1832	81-0527	05/15/08	10:50	Ammonia-N	mg/L	<0.02	
WILL01	W1832	81-0667	06/12/08	11:48	Ammonia-N	mg/L	<0.02	
WILL01	W1832	81-0858	07/17/08	10:50	Ammonia-N	mg/L	<0.02	
WILL01	W1832	81-1052	08/14/08	10:54	Ammonia-N	mg/L	<0.02	
WILL01	W1832	81-1238	09/18/08	11:10	Ammonia-N	mg/L	<0.02	
WILL01	W1832	81-0527	05/15/08	10:50	Total Nitrogen	mg/L	0.18	
WILL01	W1832	81-0667	06/12/08	11:48	Total Nitrogen	mg/L	0.39	
WILL01	W1832	81-0858	07/17/08	10:50	Total Nitrogen	mg/L	0.33	
WILL01	W1832	81-1052	08/14/08	10:54	Total Nitrogen	mg/L	0.27	
WILL01	W1832	81-1238	09/18/08	11:10	Total Nitrogen	mg/L	0.21	

Table 7. 2008 MassDEP DWM Nashua River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Data Qualifiers
WILL01	W1832	81-0527	05/15/08	10:50	Total Phosphorus	mg/L	0.007	
WILL01	W1832	81-0667	06/12/08	11:48	Total Phosphorus	mg/L	0.012	
WILL01	W1832	81-0858	07/17/08	10:50	Total Phosphorus	mg/L	0.007	
WILL01	W1832	81-1052	08/14/08	10:54	Total Phosphorus	mg/L	0.014	
WILL01	W1832	81-1238	09/18/08	11:10	Total Phosphorus	mg/L	0.011	
WILL01	W1832	81-0527	05/15/08	10:50	Turbidity	NTU	0.6	
WILL01	W1832	81-0667	06/12/08	11:48	Turbidity	NTU	0.6	
WILL01	W1832	81-0858	07/17/08	10:50	Turbidity	NTU	<0.5	
WILL01	W1832	81-1052	08/14/08	10:54	Turbidity	NTU	1.1	
WILL01	W1832	81-1238	09/18/08	11:10	Turbidity	NTU	0.8	
WILL01	W1832	81-0527	05/15/08	10:50	True Color	PCU	18	
WILL01	W1832	81-0667	06/12/08	11:48	True Color	PCU	25	
WILL01	W1832	81-0858	07/17/08	10:50	True Color	PCU	<15	
WILL01	W1832	81-1052	08/14/08	10:54	True Color	PCU	42	
WILL01	W1832	81-1238	09/18/08	11:10	True Color	PCU	28	
WIT01	W1845	81-0490	05/13/08	10:01	*E. coli*	CFU/100mL	38	
WIT01	W1845	81-0630	06/10/08	9:40	*E. coli*	CFU/100mL	87	
WIT01	W1845	81-0821	07/15/08	9:45	*E. coli*	CFU/100mL	350	
WIT01	W1845	81-1013	08/12/08	10:00	*E. coli*	CFU/100mL	140	
WIT01	W1845	81-1111	09/02/08	9:58	*E. coli*	CFU/100mL	180	
WIT01	W1845	81-1201	09/16/08	9:55	*E. coli*	CFU/100mL	77	

Table 8. Geometric mean* of the 2008 *E. coli* results for each DWM river sampling station.

Station ID	Unique ID	Sample Count	Geometric Mean (CFU/100 ml)
BOW01	W1830	6	71
CAT01	W1812	6	128
CAT02	W1843	6	468
COB01	W1841	6	28
CSB01	W1842	6	63
FAH01	W1836	6	161
FAH02	W1837	6	42
FAL01	W1825	6	70
FAL03	W1826	6	165
FCH01	W2066	4	24
FLG03	W1807	6	33
GAT25	W1817	4	50
GOV01	W1839	6	22
GUL01	W1844	6	47
JAM01	W1000	6	100
LOC01	W1834	5	19
MAG01	W1819	6	26
MAL01	W1818	4	105

Table 8. Geometric mean* of the 2008 *E. coli* results for each DWM river sampling station.

Station ID	Unique ID	Sample Count	Geometric Mean (CFU/100 ml)
MON01	W1810	6	88
MONOO	W0994	8	278
MPB02	W1824	6	45
MPB03	W0998	6	55
MUD01	W2067	4	35
MUL01	W1823	6	25
MUS01	W1840	6	19
NAS02	W1806	6	45
NIS02	W1815	6	130
NM21	W0484	6	141
NM25	W0488	6	56
NN09	W0480	6	838
NN10A	W0993	6	575
NNR01	W1780	6	173
NNR04	W1781	6	153
NON00	W1813	6	83
NS17	W0482	6	55
NT34	W0992	6	54
NT68	W0486	8	99
PEB01	W1846	6	40
PH00	W0991	6	65
PH01	W1809	6	24
PHB01	W1835	6	14
QXR01	W1821	6	28
SQ08	W1283	6	87
SQC01	W1814	6	59
STL01	W0995	6	158
STL02	W1811	6	40
STW01	W1820	4	175
SUC01	W1816	6	95
SWA01	W1838	6	27
TFB01	W1833	6	11
UNK01	W1829	6	64
WEK01	W1831	6	45
WHR01	W1808	6	17
WILL01	W1832	6	93
WIT01	W1845	6	114

*The detection limit was used in the geometric mean calculation if the result was below the detection limit. Results from duplicate samples were removed before completing the geometric mean calculation.

Table 9. 2008 MassDEP DWM Nashua River Watershed water quality data - lakes.

Station ID	Unique ID	OWMID	Date	Time	Relative Sample Depth	Analyte	Units	Result	Data Qualifiers
ICEDAM	W1001	81-0895	07/16/08	8:35	Surface	Ammonia-N	mg/L	0.08	
ICEDAM	W1001	81-0896	07/16/08	8:50	Near bottom	Ammonia-N	mg/L	0.11	
ICEDAM	W1001	81-0897	07/16/08	8:55	--	Chlorophyll a	mg/m3	7.1	
ICEDAM	W1001	81-0895	07/16/08	8:35	Surface	Nitrate/Nitrite-N	mg/L	1.7	
ICEDAM	W1001	81-0896	07/16/08	8:50	Near bottom	Nitrate/Nitrite-N	mg/L	1.7	
ICEDAM	W1001	81-0895	07/16/08	8:35	Surface	Total Nitrogen	mg/L	2.4	
ICEDAM	W1001	81-0896	07/16/08	8:50	Near bottom	Total Nitrogen	mg/L	2.3	
ICEDAM	W1001	81-0895	07/16/08	8:35	Surface	Total Phosphorus	mg/L	0.22	
ICEDAM	W1001	81-0896	07/16/08	8:50	Near bottom	Total Phosphorus	mg/L	0.14	
ICEDAM	W1001	81-0895	07/16/08	8:35	Surface	Total Reactive Phosphorus	mg/L	0.098	
ICEDAM	W1001	81-0896	07/16/08	8:50	Near bottom	Total Reactive Phosphorus	mg/L	0.10	
ICEHOUSE	W2070	81-1079	09/03/08	10:10	Surface	Ammonia-N	mg/L	0.06	
ICEHOUSE	W2070	81-1081	09/03/08	10:25	--	Chlorophyll a	mg/m3	1.8	
ICEHOUSE	W2070	81-1079	09/03/08	10:10	Surface	Nitrate/Nitrite-N	mg/L	1.1	
ICEHOUSE	W2070	81-1079	09/03/08	10:10	Surface	Total Nitrogen	mg/L	1.4	
ICEHOUSE	W2070	81-1079	09/03/08	10:10	Surface	Total Phosphorus	mg/L	0.048	
ICEHOUSE	W2070	81-1079	09/03/08	10:10	Surface	Total Reactive Phosphorus	mg/L	0.035	h
PEPPOND	W0495	81-0899	07/16/08	11:45	Surface	Ammonia-N	mg/L	<0.02	
PEPPOND	W0495	81-0901	07/16/08	11:50	Near bottom	Ammonia-N	mg/L	0.04	
PEPPOND	W0495	81-1088	09/03/08	13:20	Surface	Ammonia-N	mg/L	<0.02	
PEPPOND	W0495	81-1089	09/03/08	13:35	Near bottom	Ammonia-N	mg/L	0.04	
PEPPOND	W0495	81-0900	07/16/08	11:55	--	Chlorophyll a	mg/m3	7.3	
PEPPOND	W0495	81-1090	09/03/08	13:25	--	Chlorophyll a	mg/m3	5.0	
PEPPOND	W0495	81-0899	07/16/08	11:45	Surface	Nitrate/Nitrite-N	mg/L	0.61	
PEPPOND	W0495	81-0901	07/16/08	11:50	Near bottom	Nitrate/Nitrite-N	mg/L	0.57	
PEPPOND	W0495	81-1088	09/03/08	13:20	Surface	Nitrate/Nitrite-N	mg/L	1.0	
PEPPOND	W0495	81-1089	09/03/08	13:35	Near bottom	Nitrate/Nitrite-N	mg/L	1.1	
PEPPOND	W0495	81-0899	07/16/08	11:45	Surface	Total Nitrogen	mg/L	1.1	
PEPPOND	W0495	81-0901	07/16/08	11:50	Near bottom	Total Nitrogen	mg/L	1.0	
PEPPOND	W0495	81-1088	09/03/08	13:20	Surface	Total Nitrogen	mg/L	1.3	
PEPPOND	W0495	81-1089	09/03/08	13:35	Near bottom	Total Nitrogen	mg/L	1.3	
PEPPOND	W0495	81-0899	07/16/08	11:45	Surface	Total Phosphorus	mg/L	0.055	
PEPPOND	W0495	81-0901	07/16/08	11:50	Near bottom	Total Phosphorus	mg/L	0.050	
PEPPOND	W0495	81-1088	09/03/08	13:20	Surface	Total Phosphorus	mg/L	0.034	
PEPPOND	W0495	81-1089	09/03/08	13:35	Near bottom	Total Phosphorus	mg/L	0.033	
PEPPOND	W0495	81-0899	07/16/08	11:45	Surface	Total Reactive Phosphorus	mg/L	0.025	

Table 9. 2008 MassDEP DWM Nashua River Watershed water quality data - lakes.

Station ID	Unique ID	OWMID	Date	Time	Relative Sample Depth	Analyte	Units	Result	Data Qualifiers
PEPPOND	W0495	81-0901	07/16/08	11:50	Near bottom	Total Reactive Phosphorus	mg/L	0.026	
PEPPOND	W0495	81-1088	09/03/08	13:20	Surface	Total Reactive Phosphorus	mg/L	0.016	h
PEPPOND	W0495	81-1089	09/03/08	13:35	Near bottom	Total Reactive Phosphorus	mg/L	0.020	h
ICEDAM	W1001	81-0895	07/16/08	8:35	Surface	Ammonia-N	mg/L	0.08	
ICEDAM	W1001	81-0896	07/16/08	8:50	Near bottom	Ammonia-N	mg/L	0.11	
ICEDAM	W1001	81-0897	07/16/08	8:55	--	Chlorophyll a	mg/m3	7.1	
ICEDAM	W1001	81-0895	07/16/08	8:35	Surface	Nitrate/Nitrite-N	mg/L	1.7	
ICEDAM	W1001	81-0896	07/16/08	8:50	Near bottom	Nitrate/Nitrite-N	mg/L	1.7	
ICEDAM	W1001	81-0895	07/16/08	8:35	Surface	Total Nitrogen	mg/L	2.4	
ICEDAM	W1001	81-0896	07/16/08	8:50	Near bottom	Total Nitrogen	mg/L	2.3	
ICEDAM	W1001	81-0895	07/16/08	8:35	Surface	Total Phosphorus	mg/L	0.22	
ICEDAM	W1001	81-0896	07/16/08	8:50	Near bottom	Total Phosphorus	mg/L	0.14	
ICEDAM	W1001	81-0895	07/16/08	8:35	Surface	Total Reactive Phosphorus	mg/L	0.098	
ICEDAM	W1001	81-0896	07/16/08	8:50	Near bottom	Total Reactive Phosphorus	mg/L	0.10	
ICEHOUSE	W2070	81-1079	09/03/08	10:10	Surface	Ammonia-N	mg/L	0.06	
ICEHOUSE	W2070	81-1081	09/03/08	10:25	--	Chlorophyll a	mg/m3	1.8	
ICEHOUSE	W2070	81-1079	09/03/08	10:10	Surface	Nitrate/Nitrite-N	mg/L	1.1	
ICEHOUSE	W2070	81-1079	09/03/08	10:10	Surface	Total Nitrogen	mg/L	1.4	
ICEHOUSE	W2070	81-1079	09/03/08	10:10	Surface	Total Phosphorus	mg/L	0.048	
ICEHOUSE	W2070	81-1079	09/03/08	10:10	Surface	Total Reactive Phosphorus	mg/L	0.035	h
PEPPOND	W0495	81-0899	07/16/08	11:45	Surface	Ammonia-N	mg/L	<0.02	
PEPPOND	W0495	81-0901	07/16/08	11:50	Near bottom	Ammonia-N	mg/L	0.04	
PEPPOND	W0495	81-1088	09/03/08	13:20	Surface	Ammonia-N	mg/L	<0.02	
PEPPOND	W0495	81-1089	09/03/08	13:35	Near bottom	Ammonia-N	mg/L	0.04	
PEPPOND	W0495	81-0900	07/16/08	11:55	--	Chlorophyll a	mg/m3	7.3	
PEPPOND	W0495	81-1090	09/03/08	13:25	--	Chlorophyll a	mg/m3	5.0	
PEPPOND	W0495	81-0899	07/16/08	11:45	Surface	Nitrate/Nitrite-N	mg/L	0.61	
PEPPOND	W0495	81-0901	07/16/08	11:50	Near bottom	Nitrate/Nitrite-N	mg/L	0.57	
PEPPOND	W0495	81-1088	09/03/08	13:20	Surface	Nitrate/Nitrite-N	mg/L	1.0	
PEPPOND	W0495	81-1089	09/03/08	13:35	Near bottom	Nitrate/Nitrite-N	mg/L	1.1	
PEPPOND	W0495	81-0899	07/16/08	11:45	Surface	Total Nitrogen	mg/L	1.1	
PEPPOND	W0495	81-0901	07/16/08	11:50	Near bottom	Total Nitrogen	mg/L	1.0	
PEPPOND	W0495	81-1088	09/03/08	13:20	Surface	Total Nitrogen	mg/L	1.3	
PEPPOND	W0495	81-1089	09/03/08	13:35	Near bottom	Total Nitrogen	mg/L	1.3	
PEPPOND	W0495	81-0899	07/16/08	11:45	Surface	Total Phosphorus	mg/L	0.055	

Table 9. 2008 MassDEP DWM Nashua River Watershed water quality data - lakes.

Station ID	Unique ID	OWMID	Date	Time	Relative Sample Depth	Analyte	Units	Result	Data Qualifiers
PEPPOND	W0495	81-0901	07/16/08	11:50	Near bottom	Total Phosphorus	mg/L	0.050	
PEPPOND	W0495	81-1088	09/03/08	13:20	Surface	Total Phosphorus	mg/L	0.034	
PEPPOND	W0495	81-1089	09/03/08	13:35	Near bottom	Total Phosphorus	mg/L	0.033	
PEPPOND	W0495	81-0899	07/16/08	11:45	Surface	Total Reactive Phosphorus	mg/L	0.025	
PEPPOND	W0495	81-0901	07/16/08	11:50	Near bottom	Total Reactive Phosphorus	mg/L	0.026	
PEPPOND	W0495	81-1088	09/03/08	13:20	Surface	Total Reactive Phosphorus	mg/L	0.016	h
PEPPOND	W0495	81-1089	09/03/08	13:35	Near bottom	Total Reactive Phosphorus	mg/L	0.020	h
ICEDAM	W1001	81-0895	07/16/08	8:35	Surface	Ammonia-N	mg/L	0.08	
ICEDAM	W1001	81-0896	07/16/08	8:50	Near bottom	Ammonia-N	mg/L	0.11	
ICEDAM	W1001	81-0897	07/16/08	8:55	--	Chlorophyll a	mg/m3	7.1	
ICEDAM	W1001	81-0895	07/16/08	8:35	Surface	Nitrate/Nitrite-N	mg/L	1.7	
ICEDAM	W1001	81-0896	07/16/08	8:50	Near bottom	Nitrate/Nitrite-N	mg/L	1.7	
ICEDAM	W1001	81-0895	07/16/08	8:35	Surface	Total Nitrogen	mg/L	2.4	
ICEDAM	W1001	81-0896	07/16/08	8:50	Near bottom	Total Nitrogen	mg/L	2.3	
ICEDAM	W1001	81-0895	07/16/08	8:35	Surface	Total Phosphorus	mg/L	0.22	
ICEDAM	W1001	81-0896	07/16/08	8:50	Near bottom	Total Phosphorus	mg/L	0.14	
ICEDAM	W1001	81-0895	07/16/08	8:35	Surface	Total Reactive Phosphorus	mg/L	0.098	
ICEDAM	W1001	81-0896	07/16/08	8:50	Near bottom	Total Reactive Phosphorus	mg/L	0.10	
ICEHOUSE	W2070	81-1079	09/03/08	10:10	Surface	Ammonia-N	mg/L	0.06	
ICEHOUSE	W2070	81-1081	09/03/08	10:25	--	Chlorophyll a	mg/m3	1.8	
ICEHOUSE	W2070	81-1079	09/03/08	10:10	Surface	Nitrate/Nitrite-N	mg/L	1.1	
ICEHOUSE	W2070	81-1079	09/03/08	10:10	Surface	Total Nitrogen	mg/L	1.4	
ICEHOUSE	W2070	81-1079	09/03/08	10:10	Surface	Total Phosphorus	mg/L	0.048	
ICEHOUSE	W2070	81-1079	09/03/08	10:10	Surface	Total Reactive Phosphorus	mg/L	0.035	h
PEPPOND	W0495	81-0899	07/16/08	11:45	Surface	Ammonia-N	mg/L	<0.02	
PEPPOND	W0495	81-0901	07/16/08	11:50	Near bottom	Ammonia-N	mg/L	0.04	
PEPPOND	W0495	81-1088	09/03/08	13:20	Surface	Ammonia-N	mg/L	<0.02	
PEPPOND	W0495	81-1089	09/03/08	13:35	Near bottom	Ammonia-N	mg/L	0.04	
PEPPOND	W0495	81-0900	07/16/08	11:55	--	Chlorophyll a	mg/m3	7.3	
PEPPOND	W0495	81-1090	09/03/08	13:25	--	Chlorophyll a	mg/m3	5.0	
PEPPOND	W0495	81-0899	07/16/08	11:45	Surface	Nitrate/Nitrite-N	mg/L	0.61	
PEPPOND	W0495	81-0901	07/16/08	11:50	Near bottom	Nitrate/Nitrite-N	mg/L	0.57	
PEPPOND	W0495	81-1088	09/03/08	13:20	Surface	Nitrate/Nitrite-N	mg/L	1.0	
PEPPOND	W0495	81-1089	09/03/08	13:35	Near bottom	Nitrate/Nitrite-N	mg/L	1.1	

Table 9. 2008 MassDEP DWM Nashua River Watershed water quality data - lakes.

Station ID	Unique ID	OWMID	Date	Time	Relative Sample Depth	Analyte	Units	Result	Data Qualifiers
PEPPOND	W0495	81-0899	07/16/08	11:45	Surface	Total Nitrogen	mg/L	1.1	
PEPPOND	W0495	81-0901	07/16/08	11:50	Near bottom	Total Nitrogen	mg/L	1.0	
PEPPOND	W0495	81-1088	09/03/08	13:20	Surface	Total Nitrogen	mg/L	1.3	
PEPPOND	W0495	81-1089	09/03/08	13:35	Near bottom	Total Nitrogen	mg/L	1.3	
PEPPOND	W0495	81-0899	07/16/08	11:45	Surface	Total Phosphorus	mg/L	0.055	
PEPPOND	W0495	81-0901	07/16/08	11:50	Near bottom	Total Phosphorus	mg/L	0.050	
PEPPOND	W0495	81-1088	09/03/08	13:20	Surface	Total Phosphorus	mg/L	0.034	
PEPPOND	W0495	81-1089	09/03/08	13:35	Near bottom	Total Phosphorus	mg/L	0.033	
PEPPOND	W0495	81-0899	07/16/08	11:45	Surface	Total Reactive Phosphorus	mg/L	0.025	
PEPPOND	W0495	81-0901	07/16/08	11:50	Near bottom	Total Reactive Phosphorus	mg/L	0.026	
PEPPOND	W0495	81-1088	09/03/08	13:20	Surface	Total Reactive Phosphorus	mg/L	0.016	h
PEPPOND	W0495	81-1089	09/03/08	13:35	Near bottom	Total Reactive Phosphorus	mg/L	0.020	h
ICEDAM	W1001	81-0895	07/16/08	8:35	Surface	Ammonia-N	mg/L	0.08	
ICEDAM	W1001	81-0896	07/16/08	8:50	Near bottom	Ammonia-N	mg/L	0.11	
ICEDAM	W1001	81-0897	07/16/08	8:55	--	Chlorophyll a	mg/m3	7.1	

Table 10. 2008 MassDEP DWM Nashua River Watershed attended multiprobe and temperature probe data – rivers and lakes.

Station ID	Unique ID	OWMID	Date	Time	Sample Depth (m)	Depth Qualifiers	Temperature (deg. C)	Temperature Qualifiers	pH (SU)	pH Qualifiers	Specific Conductivity (µS/cm)	Specific Conductivity Qualifiers	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers	Dissolved Oxygen Saturation (%)	Dissolved Oxygen Saturation Qualifiers
BOW01	W1830	81-0584	06/09/08	12:26	0.3		26.4		6.5		320		205		4.8	i	60	i
BOW01	W1830	81-0609	06/11/08	11:17	0.1		25.4		6.5		378		242		3.4		42	
BOW01	W1830	81-0775	07/14/08	11:37	--		23.4		6.4		265		169		3.8		45	
BOW01	W1830	81-0800	07/16/08	10:30	--		21.7		6.5		264		169		4.3		49	
BOW01	W1830	81-0967	08/11/08	13:39	0.3		19.9		6.2		184		118		3.7		42	
BOW01	W1830	81-0992	08/13/08	10:24	--		18.8		6.3		193		123		4.0		43	
CAT01	W1812	81-0566	06/06/08	13:30	0.2		16.6		6.9		##	u	##	u	8.2		84	
CAT01	W1812	81-0591	06/09/08	8:26	0.1		23.8		6.9		254		163		6.9	i	83	i
CAT01	W1812	81-0757	07/11/08	11:50	--		23.8		7.0		--		--		7.0		84	
CAT01	W1812	81-0782	07/14/08	8:31	--		24.3		7.0		261		167		6.8		83	
CAT01	W1812	81-0949	08/08/08	11:47	0.5		21.5		6.9		235		151		7.1		82	
CAT01	W1812	81-0974	08/11/08	8:37	0.5		20.7		6.5		190		122		6.3		72	
FAL02	W1827	81-0694	06/20/08	10:50	--		15.6	s	--		--		--		--		--	
FAL02	W1827	81-0708	09/25/08	10:25	--		12.4	s	--		--		--		--		--	
GAT25	W1817	81-0690	06/20/08	8:54	--		13.0	s	--		--		--		--		--	
GAT25	W1817	81-0704	09/25/08	8:42	--		10.9	s	--		--		--		--		--	
GROTON	W0497	81-0872	07/14/08	12:36	1.0		23.6		6.9		##	i	##	i	5.4		65	
GROTON	W0497	81-0894	07/16/08	10:07	1.0		22.2		6.9		364		233		6.1		71	
GROTON	W0497	81-0875	07/16/08	10:07	1.0		22.2		6.9		364		233		6.1		71	
GROTON	W0497	81-1070	08/29/08	11:58	--		17.8		--		--		--		7.2		76	
GROTON	W0497	81-1074	09/03/08	12:23	--		18.3		--		--		--		8.0		85	
ICEDAM	W1001	81-0873	07/14/08	11:01	1.0		23.9		6.8		##	i	##	i	5.1		62	
ICEDAM	W1001	81-0898	07/16/08	8:50	0.5		##	m	##	m, i	##	m, i	##	m, i	##	m, i	##	m, i
ICEDAM	W1001	81-0898	07/16/08	8:48	1.0		22.6	m	6.7	m	386	m	247	m	5.5	m	64	m

Table 10. 2008 MassDEP DWM Nashua River Watershed attended multiprobe and temperature probe data – rivers and lakes.

Station ID	Unique ID	OWMID	Date	Time	Sample Depth (m)	Depth Qualifiers	Temperature (deg. C)	Temperature Qualifiers	pH (SU)	pH Qualifiers	Specific Conductivity (µS/cm)	Specific Conductivity Qualifiers	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers	Dissolved Oxygen Saturation (%)	Dissolved Oxygen Saturation Qualifiers
ICEDAM	W1001	81-0876	07/16/08	8:48	1.0		22.6	m	6.7	m	386	m	247	m	5.5	m	64	m
ICEDAM	W1001	81-0898	07/16/08	8:45	2.0		22.6	m	6.7	m	386	m	247	m	5.4	m	63	m
ICEDAM	W1001	81-0898	07/16/08	8:41	3.0		22.5		6.7		386		247		5.2		61	
ICEDAM	W1001	81-0898	07/16/08	8:36	3.7		22.3		6.6		388		248		4.8		56	
ICEHOUSE	W2070	81-1069	08/29/08	9:59	--		17.7		--		--		--		6.8		72	
ICEHOUSE	W2070	81-1077	08/29/08	10:09	--		17.6		--		--		--		6.8		72	
ICEHOUSE	W2070	81-1077	08/29/08	10:19	--		17.6		--		--		--		6.8		72	
ICEHOUSE	W2070	81-1077	08/29/08	10:28	--		17.5		--		--		--		6.6		70	
ICEHOUSE	W2070	81-1077	08/29/08	10:38	--		17.5		--		--		--		6.6		71	
ICEHOUSE	W2070	81-1073	09/03/08	10:09	--		17.5		--		--		--		7.3		78	
JAM01	W1000	81-0582	06/09/08	11:37	0.2		23.4		7.2		392		251		6.9	i	82	i
JAM01	W1000	81-0607	06/11/08	11:48	0.0	i	23.5		7.3		413		264		6.4		77	
JAM01	W1000	81-0773	07/14/08	11:04	--		21.8		7.2		413		264		6.4		74	
JAM01	W1000	81-0798	07/16/08	11:05	--		20.1		7.3		412		264		6.9		77	
JAM01	W1000	81-0965	08/11/08	12:06	0.3		19.3		7.0		##	u	##	u	7.2		79	
JAM01	W1000	81-0990	08/13/08	10:52	--		18.2		7.1		257		165		7.2		78	
MAG01	W1819	81-0561	06/06/08	9:21	0.1		12.1		6.5		273		175		9.8		92	
MAG01	W1819	81-0586	06/09/08	8:22	0.2		14.3		6.4		450		288		9.0		90	
MAG01	W1819	81-0752	07/11/08	9:00	--		14.7		6.6		--		--		9.4		94	
MAG01	W1819	81-0777	07/14/08	9:52	0.1		14.8		6.5		492		315		9.3		94	
MAG01	W1819	81-0944	08/08/08	8:58	0.1		16.8		6.6		163		104		9.3		99	
MAG01	W1819	81-0969	08/11/08	8:12	--		16.2		6.6		212		135		9.2		95	
MAL01	W1818	81-0691	06/20/08	9:25	--		15.8	s	--		--		--		--		--	
MAL01	W1818	81-0705	09/25/08	9:07	--		10.8	s	--		--		--		--		--	

Table 10. 2008 MassDEP DWM Nashua River Watershed attended multiprobe and temperature probe data – rivers and lakes.

Station ID	Unique ID	OWMID	Date	Time	Sample Depth (m)	Depth Qualifiers	Temperature (deg. C)	Temperature Qualifiers	pH (SU)	pH Qualifiers	Specific Conductivity (µS/cm)	Specific Conductivity Qualifiers	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers	Dissolved Oxygen Saturation (%)	Dissolved Oxygen Saturation Qualifiers
MPB02	W1824	81-0701	06/30/08	11:03	--		21.3	s	--		--		--		--		--	
MPB02	W1824	81-0715	09/25/08	14:38	--		14.9	s	--		--		--		--		--	
MPB03	W0998	81-0583	06/09/08	11:56	0.2		24.3		7.3		235		150		7.8	i	95	i
MPB03	W0998	81-0608	06/11/08	12:42	0.1		25.0		7.3		243		156		7.5		92	
MPB03	W0998	81-0702	06/30/08	11:20	--		21.3	s	--		--		--		--		--	
MPB03	W0998	81-0774	07/14/08	**	**		**		**		**		**		**		**	
MPB03	W0998	81-0799	07/16/08	11:51	--		22.1		7.4		237		152		8.3		96	
MPB03	W0998	81-0966	08/11/08	12:30	0.3		19.5		6.7		144		92		8.6		96	
MPB03	W0998	81-0991	08/13/08	11:42	--		19.1		6.8		154		99		8.2		91	
MPB03	W0998	81-1166	09/12/08	13:43	--		16.9		6.8		158	i	101	i	9.0		93	
MPB03	W0998	81-1176	09/17/08	12:24	--		17.4		6.9		159		102		9.1		95	
MPB03	W0998	81-0716	09/25/08	14:58	--		14.6	s	--		--		--		--		--	
MUL01	W1823	81-0570	06/06/08	10:20	0.5		12.8		6.9		333		213		9.8		93	
MUL01	W1823	81-0595	06/09/08	11:49	0.4		19.9		7.1		307		197		8.2		92	
MUL01	W1823	81-0696	06/20/08	12:25	--		15.5	s	--		--		--		--		--	
MUL01	W1823	81-0761	07/11/08	10:37	0.2		17.1		7.0		445	u	285	u	8.6		93	
MUL01	W1823	81-0786	07/14/08	12:43	0.2		18.8		7.0		542		347		8.1		90	
MUL01	W1823	81-0953	08/08/08	9:01	--		17.9		7.0		143		92		8.9		96	
MUL01	W1823	81-0978	08/11/08	11:40	--		17.6		6.8		113		72		8.9		95	
MUL01	W1823	81-0710	09/25/08	11:46	--		11.3	s	--		--		--		--		--	
NAS02	W1806	81-0573	06/06/08	12:28	0.6		17.5		6.9		284		182		6.6		69	
NAS02	W1806	81-0598	06/09/08	10:02	0.5		22.4		6.9		304		195		6.9	i	82	i
NAS02	W1806	81-0764	07/11/08	12:17	0.6		24.4		7.1		244		156		7.9		96	
NAS02	W1806	81-0789	07/14/08	9:40	--		24.3		7.0		261		167		6.2		76	

Table 10. 2008 MassDEP DWM Nashua River Watershed attended multiprobe and temperature probe data – rivers and lakes.

Station ID	Unique ID	OWMID	Date	Time	Sample Depth (m)	Depth Qualifiers	Temperature (deg. C)	Temperature Qualifiers	pH (SU)	pH Qualifiers	Specific Conductivity (µS/cm)	Specific Conductivity Qualifiers	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers	Dissolved Oxygen Saturation (%)	Dissolved Oxygen Saturation Qualifiers
NAS02	W1806	81-0956	08/08/08	10:42	--		19.7		6.9		193		124		7.7		86	
NAS02	W1806	81-0981	08/11/08	10:22	0.9		20.0		6.7		177		114		7.6		86	
NAS02	W1806	81-1165	09/12/08	12:31	--		17.5		6.6		148	i	95	i	7.8		82	
NAS02	W1806	81-1175	09/17/08	11:44	--		18.5		6.8		189		121		7.9		85	
NIS02	W1815	81-0698	06/20/08	14:05	--		20.9	s	--		--		--		--		--	
NIS02	W1815	81-0712	09/25/08	13:25	--		14.5	s	--		--		--		--		--	
NM21	W0484	81-0585	06/09/08	13:04	2.2		22.9		6.8		381		244		5.2	i	62	i
NM21	W0484	81-0610	06/11/08	10:09	0.3		24.5		6.9		400		256		4.2		52	
NM21	W0484	81-0776	07/14/08	12:03	--		23.0		6.9		402		257		5.4		65	
NM21	W0484	81-0801	07/16/08	10:01	--		19.8		6.9		238		152		7.3		81	
NM21	W0484	81-0968	08/11/08	14:13	3.1		18.7		6.5		154		99		7.7		84	
NM21	W0484	81-0993	08/13/08	9:34	--		17.9		6.7		186		119		7.2		78	
NM21	W0484	81-1167	09/12/08	14:35	--		16.7		6.6		232	i	148	i	7.5		77	
NM21	W0484	81-1177	09/17/08	13:10	--		17.3		6.7		259		166		7.6		79	
NM25	W0488	81-0568	06/06/08	14:37	0.8		16.8		7.0		370		237		8.1		84	
NM25	W0488	81-0593	06/11/08	12:16	0.6		23.9		7.0		363		232		7.1		86	
NM25	W0488	81-0759	07/11/08	12:47	--		23.7		7.0		--		--		7.8		93	
NM25	W0488	81-0784	07/16/08	11:25	--		22.6		7.2		399		255		7.8		91	
NM25	W0488	81-0951	08/08/08	12:43	1.9		18.8		6.8		201		129		8.7		96	
NM25	W0488	81-0976	08/13/08	11:14	--		18.6		6.8		193		124		8.2		89	
NM27	W0496	81-0581	06/09/08	11:13	0.9		20.3	u	6.8		323		207		7.0	i	79	i
NM27	W0496	81-0606	06/11/08	12:41	1.2		23.7		6.8		323		207		5.8		70	
NM27	W0496	81-0772	07/14/08	10:40	--		24.0		6.9		304		194		6.2		75	
NM27	W0496	81-0797	07/16/08	11:54	1.7		22.8		7.0		331		212		7.3		85	

Table 10. 2008 MassDEP DWM Nashua River Watershed attended multiprobe and temperature probe data – rivers and lakes.

Station ID	Unique ID	OWMID	Date	Time	Sample Depth (m)	Depth Qualifiers	Temperature (deg. C)	Temperature Qualifiers	pH (SU)	pH Qualifiers	Specific Conductivity (µS/cm)	Specific Conductivity Qualifiers	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers	Dissolved Oxygen Saturation (%)	Dissolved Oxygen Saturation Qualifiers
NM27	W0496	81-0964	08/11/08	11:37	3.4		19.2		6.7		188		120		7.9		87	
NM27	W0496	81-0989	08/13/08	12:35	3.3		18.8		6.7		177		113		8.0		87	
NM27	W0496	81-1072	08/29/08	14:39	--		18.9	u	--		--		--		7.8		85	
NM27	W0496	81-1076	09/03/08	14:31	--		20.5	u	--		--		--		8.1		91	
NN08	W2069	81-1251	10/01/08	9:23	0.4		16.5		6.6		193		124		9.1		96	
NN08	W2069	81-1261	10/03/08	9:32	0.2		13.5		6.7		219		140		9.9		97	
NN08	W2069	81-1271	10/07/08	8:55	0.3		10.0		6.6		235		150		10.5		93	
NN08	W2069	81-1282	11/12/08	9:29	0.2		6.7		6.7		252		164		12.2		100	
NN08	W2069	81-1292	11/14/08	9:32	0.2		7.5		6.7		161		105		11.9		99	
NN08	W2069	81-1302	11/18/08	9:20	0.2		4.6		6.7		203		132		12.8		100	
NN09	W0480	81-0569	06/06/08	9:34	0.6		16.4		6.8		351		225		9.0		92	
NN09	W0480	81-0594	06/11/08	9:25	0.5		23.5		6.9		335		214		7.5		89	
NN09	W0480	81-0760	07/11/08	9:55	0.5		22.0		6.9		335		214		8.7		100	
NN09	W0480	81-0785	07/16/08	9:21	0.3		21.8		7.0		395		253		8.5		98	
NN09	W0480	81-0952	08/08/08	8:35	--		20.1		7.0		218		139		8.7		98	
NN09	W0480	81-0977	08/13/08	9:40	0.6		19.2		7.0		195		125		8.9		98	
NN09	W0480	81-1162	09/12/08	9:56	--		16.8		6.9		197	i	126	i	9.1		95	
NN09	W0480	81-1172	09/17/08	9:52	--		17.1		6.9		219		140		9.3		97	
NN09	W0480	81-1252	10/01/08	10:06	0.8		16.8		6.7		192		123		9.4		99	
NN09	W0480	81-1262	10/03/08	10:11	0.3		13.8		6.9		209		134		10.1		99	
NN09	W0480	81-1272	10/07/08	9:35	0.3		10.5		6.8		241		154		10.8		98	
NN09	W0480	81-1283	11/12/08	10:25	0.3		7.1		6.9		250		163		12.5		103	
NN09	W0480	81-1293	11/14/08	10:20	0.3		7.7		6.9		244		159		12.2		102	
NN09	W0480	81-1303	11/18/08	10:15	0.4		4.9		6.9		211		137		13.0		102	

Table 10. 2008 MassDEP DWM Nashua River Watershed attended multiprobe and temperature probe data – rivers and lakes.

Station ID	Unique ID	OWMID	Date	Time	Sample Depth (m)	Depth Qualifiers	Temperature (deg. C)	Temperature Qualifiers	pH (SU)	pH Qualifiers	Specific Conductivity (µS/cm)	Specific Conductivity Qualifiers	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers	Dissolved Oxygen Saturation (%)	Dissolved Oxygen Saturation Qualifiers
NN10	W2068	81-1253	10/01/08	10:56	0.2		16.8		6.9		179		115		9.3		99	
NN10	W2068	81-1263	10/03/08	10:57	0.4		14.2		7.3		188		120		10.1		101	
NN10	W2068	81-1273	10/07/08	10:26	0.4		10.6		7.3		216		138		10.9		99	
NN10	W2068	81-1284	11/12/08	11:11	0.3		7.0		7.2		233		151		12.6		104	
NN10	W2068	81-1294	11/14/08	11:01	0.2		7.7		7.2		230		149		12.2		102	
NN10	W2068	81-1304	11/18/08	11:00	0.4		4.7		7.1		198		129		13.1		102	
NN10A	W0993	81-0577	06/09/08	10:58	0.3		23.3		7.2		433		277		8.1		96	
NN10A	W0993	81-0602	06/11/08	14:00	0.3		25.9		7.3		442		283		7.0		88	
NN10A	W0993	81-0768	07/14/08	12:07	0.5		23.4		7.3		415		265		8.4		99	
NN10A	W0993	81-0793	07/16/08	8:52	0.4		21.2		7.2		471		301		8.0		91	
NN10A	W0993	81-0960	08/11/08	11:04	--		19.6		7.0		194		124		8.6		96	
NN10A	W0993	81-0985	08/13/08	9:03	0.6		18.9		7.0		225		144		8.7		95	
NN10A	W0993	81-1161	09/12/08	9:13	--		17.0		7.0		252	i	162	i	9.1		95	
NN10A	W0993	81-1171	09/17/08	9:25	--		17.1		7.0		281		180		9.0		94	
NN12	W0481	81-0565	06/06/08	12:41	0.5		15.9		7.0		407		260		8.5		86	
NN12	W0481	81-0590	06/11/08	14:35	0.3		24.4		7.0		325	u	208	u	6.4		79	
NN12	W0481	81-0756	07/11/08	11:14	--		21.4		7.1		--		--		7.6		87	
NN12	W0481	81-0781	07/16/08	8:19	0.3		20.8		7.0		480		307		7.6		85	
NN12	W0481	81-0948	08/08/08	11:08	0.5		20.2		7.0		249		160		8.5		96	
NN12	W0481	81-0973	08/13/08	8:26	0.6		18.6		6.9		223		143		8.5		93	
NN12	W0481	81-1160	09/12/08	8:40	--		16.7		6.8		260	i	167	i	8.7		90	
NN12	W0481	81-1170	09/17/08	8:56	--		16.5		6.8		283		181		8.7		90	
NNR01	W1780	81-1254	10/01/08	12:00	1.1		16.7		7.0		170		109		9.3		98	
NNR01	W1780	81-1264	10/03/08	11:42	0.3		14.2		7.2		177		113		10.0		99	

Table 10. 2008 MassDEP DWM Nashua River Watershed attended multiprobe and temperature probe data – rivers and lakes.

Station ID	Unique ID	OWMID	Date	Time	Sample Depth (m)	Depth Qualifiers	Temperature (deg. C)	Temperature Qualifiers	pH (SU)	pH Qualifiers	Specific Conductivity (µS/cm)	Specific Conductivity Qualifiers	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers	Dissolved Oxygen Saturation (%)	Dissolved Oxygen Saturation Qualifiers
NNR01	W1780	81-1274	10/07/08	10:59	0.8		10.6		7.1		196		126		10.8		97	
NNR01	W1780	81-1285	11/12/08	11:45	0.3		7.3		7.1		228		148		12.3		102	
NNR01	W1780	81-1295	11/14/08	11:36	0.3		7.4		7.1		209		136		12.1		101	
NNR01	W1780	81-1305	11/18/08	11:34	0.3		4.8		7.0		180		117		13.0		101	
NON00	W1813	81-0567	06/06/08	14:06	0.1		17.8		6.9		293		187		7.4		79	
NON00	W1813	81-0592	06/09/08	8:53	0.1		22.7		6.8		299		191		6.0	i	71	i
NON00	W1813	81-0758	07/11/08	12:23	--		25.6		7.1		--		--		7.9		98	
NON00	W1813	81-0783	07/14/08	8:52	--		23.9		6.9		286		183		5.7		69	
NON00	W1813	81-0950	08/08/08	12:10	0.7		21.7		6.5		227		145		5.0		58	
NON00	W1813	81-0975	08/11/08	9:02	0.9		20.5		6.3		207		133		3.8		44	
NS17	W0482	81-0576	06/09/08	9:45	0.2		20.6		6.4		230		147		3.9		45	
NS17	W0482	81-0601	06/11/08	8:48	0.3		21.4		6.5		225		144		3.8		43	
NS17	W0482	81-0767	07/14/08	11:14	0.3		21.0		6.6		201		129		5.6		64	
NS17	W0482	81-0792	07/16/08	9:01	--		15.6		6.6		123		79		9.3		94	
NS17	W0482	81-0959	08/11/08	9:41	--		13.2		6.5		111		71		9.7		94	
NS17	W0482	81-0984	08/13/08	8:37	--		13.5		6.4		111		71		9.5		92	
NS17	W0482	81-1169	09/12/08	15:38	--		14.1		6.6		198	i	127	i	9.2		89	
NS17	W0482	81-1179	09/17/08	14:05	--		15.8		6.6		204		131		8.2		83	
NS19	W0483	81-0563	06/06/08	11:16	0.1		15.4		6.9		266		170		6.3		63	
NS19	W0483	81-0588	06/11/08	9:23	0.2		21.3		6.9		261	u	168	u	5.6		64	
NS19	W0483	81-0754	07/11/08	10:25	--		20.3		6.9		--		--		7.6		85	
NS19	W0483	81-0779	07/16/08	9:29	--		16.1		6.7		139		89		9.1		94	
NS19	W0483	81-0946	08/08/08	10:07	0.4		14.9		6.7		141		91		9.7		98	
NS19	W0483	81-0971	08/13/08	9:03	--		14.5		6.6		135		87		8.9		89	

Table 10. 2008 MassDEP DWM Nashua River Watershed attended multiprobe and temperature probe data – rivers and lakes.

Station ID	Unique ID	OWMID	Date	Time	Sample Depth (m)	Depth Qualifiers	Temperature (deg. C)	Temperature Qualifiers	pH (SU)	pH Qualifiers	Specific Conductivity (µS/cm)	Specific Conductivity Qualifiers	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers	Dissolved Oxygen Saturation (%)	Dissolved Oxygen Saturation Qualifiers
NS19	W0483	81-1168	09/12/08	15:10	--		17.7		6.9		232	i	148	i	8.4		88	
NS19	W0483	81-1178	09/17/08	13:41	--		17.7		6.9		264		169		8.4		89	
NT60A	W0487	81-0575	06/06/08	14:23	0.8		15.9		6.5		193		124		5.8	u	59	u
NT60A	W0487	81-0600	06/11/08	13:15	0.7		24.2	u	6.4		188		120		6.0		73	
NT60A	W0487	81-0700	06/30/08	10:30	--		19.8	s	--		--		--		--		--	
NT60A	W0487	81-0766	07/11/08	13:31	1.0		22.9		6.3		180		115		5.8		68	
NT60A	W0487	81-0791	07/16/08	12:14	--		22.2		6.5		196		125		6.2		71	
NT60A	W0487	81-0958	08/08/08	11:44	--		19.1		6.5		137		88		7.7		86	
NT60A	W0487	81-0983	08/13/08	12:10	--		18.0		6.3		105		67		8.0		87	
NT60A	W0487	81-0714	09/25/08	14:17	--		13.9	s	--		--		--		--		--	
NT68	W0486	81-0574	06/06/08	13:26	0.4		15.9		7.0		112		72		9.1		92	
NT68	W0486	81-0599	06/09/08	10:30	0.3		22.8		7.0		109		70		7.9	i	94	i
NT68	W0486	81-0699	06/30/08	9:53	--		20.7	s	--		--		--		--		--	
NT68	W0486	81-0765	07/11/08	12:51	0.5		23.7		7.1		106		68		8.1		97	
NT68	W0486	81-0790	07/14/08	10:11	--		23.4		7.2		119		76		7.7		93	
NT68	W0486	81-0957	08/08/08	11:05	--		20.1		6.8		79		51		8.3		93	
NT68	W0486	81-0982	08/11/08	10:55	0.6		19.8		6.8		85		54		8.4		93	
NT68	W0486	81-0713	09/25/08	13:50	--		14.2	s	--		--		--		--		--	
PEPPOND	W0495	81-0877	07/16/08	12:03	1.0		24.9	m	6.9	m	305	m	195	m	6.6	m	80	m
PEPPOND	W0495	81-0874	07/14/08	14:49	1.0		25.4		7.0		##	i	##	i	6.7		84	
PEPPOND	W0495	81-0902	07/16/08	12:08	0.5		25.4	m	6.9	m	306	m	196	m	6.8	m	83	m
PEPPOND	W0495	81-0902	07/16/08	12:03	1.0		24.9	m	6.9	m	305	m	195	m	6.6	m	80	m
PEPPOND	W0495	81-0902	07/16/08	11:57	2.0		24.5	m	6.9	m	304	m	195	m	6.1	m	74	m
PEPPOND	W0495	81-0902	07/16/08	11:50	3.0		24.5	m	6.9	m	304	m	195	m	6.2	m	75	m

Table 10. 2008 MassDEP DWM Nashua River Watershed attended multiprobe and temperature probe data – rivers and lakes.

Station ID	Unique ID	OWMID	Date	Time	Sample Depth (m)	Depth Qualifiers	Temperature (deg. C)	Temperature Qualifiers	pH (SU)	pH Qualifiers	Specific Conductivity (µS/cm)	Specific Conductivity Qualifiers	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers	Dissolved Oxygen Saturation (%)	Dissolved Oxygen Saturation Qualifiers
PEPPOND	W0495	81-0902	07/16/08	11:45	4.0		24.3	m	6.8	m	302	m	194	m	6.1	m	73	m
PEPPOND	W0495	81-0902	07/16/08	11:40	4.7		21.2	m	6.6	m	273	m	175	m	<0.2	m	<2	m
PEPPOND	W0495	81-1078	08/29/08	13:04	--		20.5		--		--		--		8.7		98	
PEPPOND	W0495	81-1078	08/29/08	13:13	--		20.4		--		--		--		8.5		96	
PEPPOND	W0495	81-1078	08/29/08	13:21	--		20.2		--		--		--		8.2		92	
PEPPOND	W0495	81-1078	08/29/08	13:29	--		20.1		--		--		--		7.9		88	
PEPPOND	W0495	81-1078	08/29/08	13:37	--		20.1		--		--		--		7.7		85	
PEPPOND	W0495	81-1071	08/29/08	13:47	--		20.6	u	--		--		--		8.9		101	
PEPPOND	W0495	81-1075	09/03/08	13:24	--		21.2		--		--		--		8.9		102	
PH01	W1809	81-0579	06/09/08	13:35	0.3		23.2		6.6		180		115		7.6		91	
PH01	W1809	81-0604	06/11/08	11:07	0.3		21.8		6.7		177		113		7.8		90	
PH01	W1809	81-0695	06/20/08	11:48	--		17.8	s	--		--		--		--		--	
PH01	W1809	81-0770	07/14/08	14:12	0.3		21.6		6.8		217		139		8.3		96	
PH01	W1809	81-0795	07/16/08	10:36	0.3		20.3		6.8		222		142		8.9		100	
PH01	W1809	81-0962	08/11/08	13:51	--		17.3		6.5		102		65		8.9		94	
PH01	W1809	81-0987	08/13/08	11:07	0.2		17.1		6.5		114		73		8.8		93	
PH01	W1809	81-0709	09/25/08	11:10	--		12.0	s	--		--		--		--		--	
QXR01	W1821	81-0562	06/06/08	10:17	0.3		14.6		7.0		179		115		9.8		97	
QXR01	W1821	81-0587	06/09/08	8:56	0.2		20.8		7.0		182		116		8.5		97	
QXR01	W1821	81-0753	07/11/08	9:40	--		19.0		7.7		--		--		9.7		107	
QXR01	W1821	81-0778	07/14/08	10:27	0.1		20.6		7.6		235		150		9.1		104	
QXR01	W1821	81-0945	08/08/08	9:26	0.4		18.3		7.0		149		96		9.2		100	
QXR01	W1821	81-0970	08/11/08	8:43	--		18.0		6.9		162		104		8.9		96	
QXR02	W1822	81-0692	06/20/08	9:47	--		16.7	s	--		--		--		--		--	

Table 10. 2008 MassDEP DWM Nashua River Watershed attended multiprobe and temperature probe data – rivers and lakes.

Station ID	Unique ID	OWMID	Date	Time	Sample Depth (m)	Depth Qualifiers	Temperature (deg. C)	Temperature Qualifiers	pH (SU)	pH Qualifiers	Specific Conductivity (µS/cm)	Specific Conductivity Qualifiers	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers	Dissolved Oxygen Saturation (%)	Dissolved Oxygen Saturation Qualifiers
QXR02	W1822	81-0706	09/25/08	9:25	--		11.3	s	--		--		--		--		--	
SQ08	W1283	81-0571	06/06/08	10:59	0.7		14.1		6.3		186		119		8.5		83	
SQ08	W1283	81-0596	06/09/08	12:16	1.0		20.6		6.2		177		113		7.2		81	
SQ08	W1283	81-0697	06/20/08	13:03	--		17.4	s	--		--		--		--		--	
SQ08	W1283	81-0762	07/11/08	11:09	0.9		20.7		6.4		191		122		7.1		80	
SQ08	W1283	81-0787	07/14/08	13:08	0.9		21.0		6.4		200		128		7.1		82	
SQ08	W1283	81-0954	08/08/08	9:27	--		18.2		6.3		121		77		7.9		86	
SQ08	W1283	81-0979	08/11/08	12:07	--		17.9		6.3		102		65		8.2		89	
SQ08	W1283	81-0711	09/25/08	12:05	--		12.2	s	--		--		--		--		--	
STL01	W0995	81-0564	06/06/08	11:53	1.0		15.0		6.5		253		162		0.6		6	
STL01	W0995	81-0589	06/09/08	10:12	1.4		15.5		6.4		253		162		1.0		10	
STL01	W0995	81-0703	06/30/08	12:15	--		17.7	s	--		--		--		--		--	
STL01	W0995	81-0755	07/11/08	10:45	--		##	u	##	u, i	--		--		##	u, i	##	u, i
STL01	W0995	81-0780	07/14/08	**	**		**		**		**		**		**		**	
STL01	W0995	81-0947	08/08/08	10:40	1.3		18.8		6.3		152		98		0.5		6	
STL01	W0995	81-0972	08/11/08	10:07	--		18.8		6.4		140		90		4.7	u	51	u
STL01	W0995	81-0717	09/25/08	15:35	--		14.8	s	--		--		--		--		--	
STW01	W1820	81-0693	06/20/08	10:20	--		17.8	s	--		--		--		--		--	
STW01	W1820	81-0707	09/25/08	9:47	--		12.3	s	--		--		--		--		--	
SUC01	W1816	81-0572	06/06/08	11:41	0.4		14.8		7.0		209		134		7.2		71	
SUC01	W1816	81-0597	06/09/08	9:32	0.4		20.9		7.0		218		140		5.8	i	66	i
SUC01	W1816	81-0763	07/11/08	11:42	0.1		20.9		7.0		202		130		6.3		71	
SUC01	W1816	81-0788	07/14/08	**	**		**		**		**		**		**		**	
SUC01	W1816	81-0955	08/08/08	10:02	--		18.7		7.0		176		113		6.5		72	

Table 10. 2008 MassDEP DWM Nashua River Watershed attended multiprobe and temperature probe data – rivers and lakes.

Station ID	Unique ID	OWMID	Date	Time	Sample Depth (m)	Depth Qualifiers	Temperature (deg. C)	Temperature Qualifiers	pH (SU)	pH Qualifiers	Specific Conductivity (µS/cm)	Specific Conductivity Qualifiers	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers	Dissolved Oxygen Saturation (%)	Dissolved Oxygen Saturation Qualifiers
SUC01	W1816	81-0980	08/11/08	9:46	0.2		18.5		6.9		174		112		6.4		69	
SUC01	W1816	81-1164	09/12/08	11:53	--		15.0		7.0		168	i	108	i	7.6		76	
SUC01	W1816	81-1174	09/17/08	11:14	--		15.2		7.0		193		124		7.2		73	
WHR01	W1808	81-0580	06/09/08	14:05	0.2		25.4		6.4		258		165		7.1		88	
WHR01	W1808	81-0605	06/11/08	10:03	0.2		22.3		6.4		249		160		7.5		88	
WHR01	W1808	81-0771	07/14/08	14:38	0.4		21.6		6.6		298		191		8.0		93	
WHR01	W1808	81-0796	07/16/08	10:00	0.2		18.9		6.6		282		181		8.7		94	
WHR01	W1808	81-0963	08/11/08	14:27	--		20.3		6.5		158		102		8.3		94	
WHR01	W1808	81-0988	08/13/08	10:34	0.3		19.6		6.5		153		98		8.4		93	
WILL01	W1832	81-0578	06/09/08	12:49	0.2		23.1		6.9		199		127		8.2		97	
WILL01	W1832	81-0603	06/11/08	11:49	0.1		22.2		7.0		210		134		8.2		96	
WILL01	W1832	81-0769	07/14/08	**	**		**		**		**		**		**		**	
WILL01	W1832	81-0794	07/16/08	11:21	0.1		20.2		7.2		244		156		9.3		104	
WILL01	W1832	81-0961	08/11/08	12:54	--		18.5		7.0		118		76		9.3		101	
WILL01	W1832	81-0986	08/13/08	11:50	0.3		18.2		7.0		128		82		9.1		99	
WILL01	W1832	81-1163	09/12/08	11:05	--		15.8		6.9		131	i	84	i	9.5		96	
WILL01	W1832	81-1173	09/17/08	10:33	--		15.1		6.9		137		88		9.8		98	

Table 11. 2008 MassDEP DWM Nashua River Watershed unattended multiprobes dissolved oxygen data - rivers.

Station ID	Unique ID	OWMID	Start Date	Deployment Duration (Hours)	Average Dissolved Oxygen (mg/L)	Minimum Dissolved Oxygen (mg/L)	Amount of Time < 5.0 mg/L (Hours)	Percentage of Time < 5.0 mg/L (%)	Amount of Time < 6.0 mg/L (Hours)	Percentage of Time < 6.0 mg/L (%)	Average Saturation (%)	Minimum Saturation (%)	Maximum Saturation (%)
BOW01	W1830	81-0559	06/09/08	46.5	3.8	2.6	38.2	82.2	46.5	100.0	49	32	77
BOW01	W1830	81-0750	07/14/08	46.5	4.2	3.4	41.0	88.1	46.5	100.0	50	38	68
BOW01	W1830	81-0942	08/11/08	44.0	3.6	2.9	44.0	100.0	44.0	100.0	40	32	57
CAT01	W1812	81-0541	06/06/08	66.0	7.5	6.6	0.0	0.0	0.0	0.0	84	79	88
CAT01	W1812	81-0732	07/11/08	68.5	7.1	6.6	0.0	0.0	0.0	0.0	87	80	95
CAT01	W1812	81-0924	08/08/08	68.5	6.2	5.6	0.0	0.0	31.4	45.8	73	66	85
GROTON	W0497	81-0869	07/14/08	45.0	6.8	5.7	0.0	0.0	3.0	6.8	82	68	99
GROTON	W0497	81-1066	08/29/08	120.0	8.2	7.5	0.0	0.0	0.0	0.0	90	81	101
ICEDAM	W1001	81-0870	07/14/08	45.0	5.8	4.9	3.3	7.4	32.1	71.3	71	59	88
ICEHOUSE	W2070	81-1065	08/29/08	120.0	7.2	6.6	0.0	0.0	0.0	0.0	79	71	87
JAM01	W1000	81-0557	06/09/08	47.5	6.0	5.5	0.0	0.0	26.0	54.8	72	68	80
JAM01	W1000	81-0748	07/14/08	47.5	6.7	6.3	0.0	0.0	0.0	0.0	76	73	79
JAM01	W1000	81-0940	08/11/08	46.0	7.1	6.4	0.0	0.0	0.0	0.0	78	72	81
MAG01	W1819	81-0536	06/06/08	70.5	9.4	8.8	0.0	0.0	0.0	0.0	92	89	97
MAG01	W1819	81-0727	07/11/08	72.0	9.1	8.7	0.0	0.0	0.0	0.0	92	90	95
MAG01	W1819	81-0919	08/08/08	71.0	8.7	8.3	0.0	0.0	0.0	0.0	92	91	94
MPB03	W0998	81-0558	06/09/08	48.5	7.6	7.3	0.0	0.0	0.0	0.0	93	92	97
MPB03	W0998	81-0941	08/11/08	46.5	8.5	8.4	0.0	0.0	0.0	0.0	95	94	97
MPB03	W0998	81-1156	09/12/08	118.0	8.6	8.0	0.0	0.0	0.0	0.0	92	90	95
MPB03	W0998	81-0749	--	--	--	--	--	--	--	--	--	--	--
MUL01	W1823	81-0545	06/06/08	73.0	9.1	8.3	0.0	0.0	0.0	0.0	94	91	97
MUL01	W1823	81-0736	07/11/08	73.5	8.1	7.6	0.0	0.0	0.0	0.0	87	83	91
MUL01	W1823	81-0928	08/08/08	74.0	8.6	8.2	0.0	0.0	0.0	0.0	93	91	94
NAS02	W1806	81-0548	06/06/08	69.5	7.1	5.9	0.0	0.0	3.8	5.4	78	64	105
NAS02	W1806	81-0739	07/11/08	69.0	8.2	5.7	0.0	0.0	3.1	4.5	101	69	127
NAS02	W1806	81-0931	08/08/08	71.0	7.9	7.6	0.0	0.0	0.0	0.0	90	85	98
NAS02	W1806	81-1155	09/12/08	118.5	7.5	7.2	0.0	0.0	0.0	0.0	80	77	87
NM21	W0484	81-0560	06/09/08	44.5	5.2	4.4	20.3	45.6	42.1	94.6	63	53	74
NM21	W0484	81-0751	07/14/08	45.5	6.9	5.6	0.0	0.0	2.9	6.4	80	66	91
NM21	W0484	81-0943	08/11/08	43.0	7.5	7.1	0.0	0.0	0.0	0.0	82	77	86
NM21	W0484	81-1157	09/12/08	118.0	7.2	6.8	0.0	0.0	0.0	0.0	77	74	81
NM25	W0488	81-0543	06/06/08	117.0	7.4	5.7	0.0	0.0	8.8	7.5	82	67	99
NM25	W0488	81-0734	07/11/08	118.0	7.0	5.6	0.0	0.0	15.6	13.2	83	66	105
NM25	W0488	81-0926	08/08/08	118.0	8.1	7.8	0.0	0.0	0.0	0.0	90	87	95
NM27	W0496	81-0556	06/09/08	49.0	6.3	5.5	0.0	0.0	14.3	29.2	72	64	79
NM27	W0496	81-0747	07/14/08	48.5	6.5	6.1	0.0	0.0	0.0	0.0	78	73	84
NM27	W0496	81-0939	08/11/08	48.5	7.4	7.2	0.0	0.0	0.0	0.0	82	81	85
NM27	W0496	81-1068	08/29/08	119.5	7.9	7.4	0.0	0.0	0.0	0.0	87	81	95
NN09	W0480	81-0544	06/06/08	119.0	7.4	5.9	0.0	0.0	1.7	1.5	85	73	95
NN09	W0480	81-0735	07/11/08	119.0	7.0	5.9	0.0	0.0	3.4	2.9	83	70	101
NN09	W0480	81-0927	08/08/08	120.5	8.2	7.6	0.0	0.0	0.0	0.0	93	89	98
NN09	W0480	81-1152	09/12/08	119.5	8.8	8.3	0.0	0.0	0.0	0.0	95	92	99

Table 11. 2008 MassDEP DWM Nashua River Watershed unattended multiprobes dissolved oxygen data - rivers.

Station ID	Unique ID	OWMID	Start Date	Deployment Duration (Hours)	Average Dissolved Oxygen (mg/L)	Minimum Dissolved Oxygen (mg/L)	Amount of Time < 5.0 mg/L (Hours)	Percentage of Time < 5.0 mg/L (%)	Amount of Time < 6.0 mg/L (Hours)	Percentage of Time < 6.0 mg/L (%)	Average Saturation (%)	Minimum Saturation (%)	Maximum Saturation (%)
NN10A	W0993	81-0552	06/09/08	51.0	6.7	5.9	0.0	0.0	5.3	10.3	82	70	93
NN10A	W0993	81-0743	07/14/08	44.0	7.4	6.8	0.0	0.0	0.0	0.0	87	81	99
NN10A	W0993	81-0935	08/11/08	45.5	8.3	7.8	0.0	0.0	0.0	0.0	93	88	96
NN10A	W0993	81-1151	09/12/08	119.5	8.8	8.4	0.0	0.0	0.0	0.0	95	92	98
NN12	W0481	81-0540	06/06/08	121.5	7.0	4.8	1.2	1.0	22.6	18.6	79	56	95
NN12	W0481	81-0731	07/11/08	116.5	--	--	--	--	--	--	--	--	--
NN12	W0481	81-0923	08/08/08	116.5	7.9	7.4	0.0	0.0	0.0	0.0	90	83	96
NN12	W0481	81-1150	09/12/08	119.5	8.4	8.1	0.0	0.0	0.0	0.0	91	88	95
NON00	W1813	81-0542	06/06/08	66.0	6.4	5.1	0.0	0.0	22.5	34.1	74	59	95
NON00	W1813	81-0733	07/11/08	68.0	6.2	4.9	5.2	7.6	35.6	52.4	77	59	103
NON00	W1813	81-0925	08/08/08	68.5	5.0	3.7	36.3	53.0	59.6	87.0	59	42	77
NS17	W0482	81-0551	06/09/08	46.5	4.4	3.6	45.6	98.1	46.5	100.0	51	42	60
NS17	W0482	81-0742	07/14/08	45.5	7.9	5.7	0.0	0.0	1.9	4.1	88	65	97
NS17	W0482	81-0934	08/11/08	46.5	9.5	9.0	0.0	0.0	0.0	0.0	93	90	98
NS17	W0482	81-1159	09/12/08	118.0	7.8	6.2	0.0	0.0	0.0	0.0	79	65	99
NS19	W0483	81-0538	06/06/08	117.5	6.3	4.8	3.6	3.1	42.3	36.0	70	55	89
NS19	W0483	81-0729	07/11/08	118.5	7.4	6.3	0.0	0.0	0.0	0.0	85	72	100
NS19	W0483	81-0921	08/08/08	118.5	9.0	8.4	0.0	0.0	0.0	0.0	92	87	99
NS19	W0483	81-1158	09/12/08	118.0	7.9	7.1	0.0	0.0	0.0	0.0	84	76	95
NT60A	W0487	81-0550	06/06/08	118.5	7.2	5.8	0.0	0.0	5.1	4.3	80	70	91
NT60A	W0487	81-0741	07/11/08	118.0	6.1	5.6	0.0	0.0	45.4	38.5	72	65	88
NT60A	W0487	81-0933	08/08/08	120.0	8.1	7.6	0.0	0.0	0.0	0.0	89	85	93
NT68	W0486	81-0549	06/06/08	69.0	8.7	8.0	0.0	0.0	0.0	0.0	95	92	99
NT68	W0486	81-0740	07/11/08	69.0	7.9	7.5	0.0	0.0	0.0	0.0	94	90	100
NT68	W0486	81-0932	08/08/08	71.0	8.5	8.4	0.0	0.0	0.0	0.0	96	95	98
PEPPOND	W0495	81-0871	07/14/08	45.0	7.4	6.3	0.0	0.0	0.0	0.0	91	77	113
PEPPOND	W0495	81-1067	08/29/08	119.0	9.5	8.9	0.0	0.0	0.0	0.0	109	100	120
PH01	W1809	81-0554	06/09/08	45.0	7.6	7.0	0.0	0.0	0.0	0.0	89	84	95
PH01	W1809	81-0745	07/14/08	44.0	7.7	7.2	0.0	0.0	0.0	0.0	86	81	96
PH01	W1809	81-0937	08/11/08	45.0	8.5	8.3	0.0	0.0	0.0	0.0	91	89	93
QXR01	W1821	81-0537	06/06/08	70.0	8.8	7.9	0.0	0.0	0.0	0.0	95	91	99
QXR01	W1821	81-0728	07/11/08	72.0	8.3	7.6	0.0	0.0	0.0	0.0	94	88	103
QXR01	W1821	81-0920	08/08/08	71.0	8.6	8.2	0.0	0.0	0.0	0.0	95	91	99
SQ08	W1283	81-0546	06/06/08	73.0	8.4	7.3	0.0	0.0	0.0	0.0	87	80	97
SQ08	W1283	81-0737	07/11/08	73.5	7.1	6.8	0.0	0.0	0.0	0.0	81	77	88
SQ08	W1283	81-0929	08/08/08	74.5	8.0	7.5	0.0	0.0	0.0	0.0	87	82	91
STL01	W0995	81-0539	06/06/08	70.0	0.2	0.2	70.0	100.0	70.0	100.0	2	2	6
STL01	W0995	81-0922	08/08/08	71.0	0.6	0.2	71.0	100.0	71.0	100.0	7	2	55
STL01	W0995	81-0730	--	--	--	--	--	--	--	--	--	--	--
SUC01	W1816	81-0547	06/06/08	69.5	6.8	5.7	0.0	0.0	13.3	19.1	74	63	89
SUC01	W1816	81-0930	08/08/08	71.0	6.5	6.1	0.0	0.0	0.0	0.0	73	66	82
SUC01	W1816	81-1154	09/12/08	119.0	6.8	5.9	0.0	0.0	3.8	3.2	71	63	84
SUC01	W1816	81-0738	--	--	--	--	--	--	--	--	--	--	--

Table 11. 2008 MassDEP DWM Nashua River Watershed unattended multiprobes dissolved oxygen data - rivers.

Station ID	Unique ID	OWMID	Start Date	Deployment Duration (Hours)	Average Dissolved Oxygen (mg/L)	Minimum Dissolved Oxygen (mg/L)	Amount of Time < 5.0 mg/L (Hours)	Percentage of Time < 5.0 mg/L (%)	Amount of Time < 6.0 mg/L (Hours)	Percentage of Time < 6.0 mg/L (%)	Average Saturation (%)	Minimum Saturation (%)	Maximum Saturation (%)
WHR01	W1808	81-0555	06/09/08	43.5	7.3	6.9	0.0	0.0	0.0	0.0	88	85	93
WHR01	W1808	81-0746	07/14/08	43.0	7.8	7.4	0.0	0.0	0.0	0.0	87	85	93
WHR01	W1808	81-0938	08/11/08	44.0	8.2	8.0	0.0	0.0	0.0	0.0	93	92	95
WILL01	W1832	81-0553	06/09/08	46.5	7.8	7.3	0.0	0.0	0.0	0.0	91	86	96
WILL01	W1832	81-0936	08/11/08	46.5	9.0	8.7	0.0	0.0	0.0	0.0	98	96	100
WILL01	W1832	81-1153	09/12/08	119.0	9.1	8.5	0.0	0.0	0.0	0.0	95	93	100
WILL01	W1832	81-0744	--	--	--	--	--	--	--	--	--	--	--

Table 12. 2008 MassDEP DWM Nashua River Watershed unattended probes temperature data – rivers.

Unique ID	Station ID	OWMID	Start Date	Deployment Duration (Hours)	Average (deg. C)	Maximum (deg. C)	Mean of the Daily Maximum (deg. C)	Amount of Time > 20 deg. C (Hours)	Percentage of Time > 20 deg. C (%)	Amount of Time > 28.3 deg. C (Hours)	Percentage of Time > 28.3 deg. C (%)
BOW01	W1830	81-0559	06/09/08	46.5	27.0	30.7	30.7	46.5	100	17.1	36.7
BOW01	W1830	81-0750	07/14/08	46.5	23.3	26.1	26.1	46.5	100	0.0	0.0
BOW01	W1830	81-0942	08/11/08	44.0	19.2	20.4	20.4	6.1	14.0	0.0	0.0
CAT01	W1812	81-0541	06/06/08	66.0	21.3	26.3	24.8	42.6	64.6	0.0	0.0
CAT01	W1812	81-0732	07/11/08	68.5	24.8	26.2	25.9	68.5	100	0.0	0.0
CAT01	W1812	81-0924	08/08/08	68.5	22.4	24.2	24.2	68.5	100	0.0	0.0
FAL02	W1827	81-0680	06/20/08	1692.5	18.7	23.6	20.0	397.8	23.5	0.0	0.0
GAT25	W1817	81-0676	06/20/08	1991.5	15.6	22.6	17.1	15.9	0.8	0.0	0.0
GROTON	W0497	81-0869	07/14/08	45.0	23.2	24.0	24.0	45.0	100	0.0	0.0
GROTON	W0497	81-1066	08/29/08	120.0	18.9	20.1	19.8	2.9	2.4	0.0	0.0
ICEDAM	W1001	81-0870	07/14/08	45.0	23.6	24.6	24.1	45.0	100	0.0	0.0
ICEHOUSE	W2070	81-1065	08/29/08	120.0	18.8	20.3	19.8	3.3	2.7	0.0	0.0
JAM01	W1000	81-0557	06/09/08	47.5	24.2	27.4	27.4	47.5	100	0.0	0.0
JAM01	W1000	81-0748	07/14/08	47.5	21.2	23.4	23.4	33.9	71.3	0.0	0.0
JAM01	W1000	81-0940	08/11/08	46.0	18.8	20.1	20.1	2.2	4.7	0.0	0.0
MAG01	W1819	81-0536	06/06/08	70.5	14.0	16.9	16.3	0.0	0.0	0.0	0.0
MAG01	W1819	81-0727	07/11/08	72.0	15.3	17.0	16.7	0.0	0.0	0.0	0.0
MAG01	W1819	81-0919	08/08/08	71.0	17.2	18.6	18.3	0.0	0.0	0.0	0.0
MAL01	W1818	81-0677	06/20/08	2327.5	18.4	25.8	20.7	591.1	25.4	0.0	0.0
MPB02	W1824	81-0687	06/30/08	2091.0	21.4	28.5	22.9	1576.3	75.4	1.1	0.1
MPB03	W0998	81-0558	06/09/08	48.5	25.3	27.1	27.1	48.5	100	0.0	0.0
MPB03	W0998	81-0688	06/30/08	2091.0	20.8	26.3	22.0	1428.4	68.3	0.0	0.0
MPB03	W0998	81-0941	08/11/08	46.5	19.4	20.4	20.4	7.2	15.5	0.0	0.0
MPB03	W0998	81-1156	09/12/08	118.0	18.7	21.2	20.2	14.3	12.1	0.0	0.0
MPB03	W0998	81-0749	--	--	--	--	--	--	--	--	--
MUL01	W1823	81-0545	06/06/08	73.0	16.5	20.1	19.3	2.2	3.0	0.0	0.0

Table 12. 2008 MassDEP DWM Nashua River Watershed unattended probes temperature data – rivers.

Unique ID	Station ID	OWMID	Start Date	Deployment Duration (Hours)	Average (deg. C)	Maximum (deg. C)	Mean of the Daily Maximum (deg. C)	Amount of Time > 20 deg. C (Hours)	Percentage of Time > 20 deg. C (%)	Amount of Time > 28.3 deg. C (Hours)	Percentage of Time > 28.3 deg. C (%)
MUL01	W1823	81-0682	06/20/08	2327.0	17.4	23.2	18.3	148.2	6.4	0.0	0.0
MUL01	W1823	81-0736	07/11/08	73.5	18.6	19.9	19.5	0.0	0.0	0.0	0.0
MUL01	W1823	81-0928	08/08/08	74.0	17.8	19.2	18.5	0.0	0.0	0.0	0.0
NAS02	W1806	81-0548	06/06/08	69.5	19.9	23.3	22.2	35.6	51.3	0.0	0.0
NAS02	W1806	81-0739	07/11/08	69.0	24.9	25.6	25.6	69.0	100	0.0	0.0
NAS02	W1806	81-0931	08/08/08	71.0	20.3	20.9	20.8	58.0	81.7	0.0	0.0
NAS02	W1806	81-1155	09/12/08	118.5	18.6	19.8	19.2	0.0	0.0	0.0	0.0
NIS02	W1815	81-0684	06/20/08	2326.5	20.8	26.7	21.8	1586.2	68.2	0.0	0.0
NM21	W0484	81-0560	06/09/08	44.5	24.5	25.5	25.5	44.5	100	0.0	0.0
NM21	W0484	81-0751	07/14/08	45.5	22.2	23.3	22.8	44.7	98.4	0.0	0.0
NM21	W0484	81-0943	08/11/08	43.0	18.3	18.7	18.5	0.0	0.0	0.0	0.0
NM21	W0484	81-1157	09/12/08	118.0	18.4	20.2	19.5	12.5	10.6	0.0	0.0
NM25	W0488	81-0543	06/06/08	117.0	20.5	25.7	22.5	65.2	55.8	0.0	0.0
NM25	W0488	81-0734	07/11/08	118.0	23.5	25.1	24.6	118.0	100	0.0	0.0
NM25	W0488	81-0926	08/08/08	118.0	19.2	20.3	19.7	6.8	5.8	0.0	0.0
NM27	W0496	81-0556	06/09/08	49.0	21.7	23.5	22.9	48.5	98.9	0.0	0.0
NM27	W0496	81-0747	07/14/08	48.5	23.6	24.2	23.9	48.5	100	0.0	0.0
NM27	W0496	81-0939	08/11/08	48.5	19.0	19.5	19.4	0.0	0.0	0.0	0.0
NM27	W0496	81-1068	08/29/08	119.5	19.3	20.3	20.0	9.0	7.5	0.0	0.0
NN09	W0480	81-0544	06/06/08	119.0	22.3	27.5	25.5	92.4	77.7	0.0	0.0
NN09	W0480	81-0735	07/11/08	119.0	23.3	26.1	25.1	119.0	100	0.0	0.0
NN09	W0480	81-0927	08/08/08	120.5	20.4	22.9	21.6	75.1	62.3	0.0	0.0
NN09	W0480	81-1152	09/12/08	119.5	18.8	21.1	20.2	14.0	11.7	0.0	0.0
NN10A	W0993	81-0552	06/09/08	51.0	24.6	27.3	27.3	51.0	100	0.0	0.0
NN10A	W0993	81-0743	07/14/08	44.0	23.1	25.5	25.5	44.0	100	0.0	0.0
NN10A	W0993	81-0935	08/11/08	45.5	19.5	20.7	20.7	8.4	18.4	0.0	0.0
NN10A	W0993	81-1151	09/12/08	119.5	18.9	21.2	20.2	12.5	10.4	0.0	0.0
NN12	W0481	81-0540	06/06/08	121.5	21.8	26.3	24.6	95.5	78.6	0.0	0.0
NN12	W0481	81-0731	07/11/08	116.5	22.7	24.6	24.1	116.5	100	0.0	0.0
NN12	W0481	81-0923	08/08/08	116.5	20.2	22.1	21.2	57.8	49.6	0.0	0.0
NN12	W0481	81-1150	09/12/08	119.5	18.7	21.3	20.2	11.4	9.5	0.0	0.0
NON00	W1813	81-0542	06/06/08	66.0	22.1	28.9	27.8	46.1	69.8	3.6	5.4
NON00	W1813	81-0733	07/11/08	68.0	25.5	29.2	28.8	68.0	100	5.0	7.4
NON00	W1813	81-0925	08/08/08	68.5	22.2	24.6	24.5	68.5	100	0.0	0.0
NS17	W0482	81-0551	06/09/08	46.5	22.5	24.0	24.0	46.5	100	0.0	0.0
NS17	W0482	81-0742	07/14/08	45.5	20.1	24.1	23.1	28.9	63.4	0.0	0.0
NS17	W0482	81-0934	08/11/08	46.5	13.5	14.6	14.6	0.0	0.0	0.0	0.0
NS17	W0482	81-1159	09/12/08	118.0	16.0	18.7	17.2	0.0	0.0	0.0	0.0
NS19	W0483	81-0538	06/06/08	117.5	20.5	25.7	23.8	78.3	66.6	0.0	0.0
NS19	W0483	81-0729	07/11/08	118.5	21.3	24.3	23.5	107.8	91.0	0.0	0.0
NS19	W0483	81-0921	08/08/08	118.5	15.1	17.6	16.3	0.0	0.0	0.0	0.0
NS19	W0483	81-1158	09/12/08	118.0	18.4	20.7	19.5	6.2	5.3	0.0	0.0

Table 12. 2008 MassDEP DWM Nashua River Watershed unattended probes temperature data – rivers.

Unique ID	Station ID	OWMID	Start Date	Deployment Duration (Hours)	Average (deg. C)	Maximum (deg. C)	Mean of the Daily Maximum (deg. C)	Amount of Time > 20 deg. C (Hours)	Percentage of Time > 20 deg. C (%)	Amount of Time > 28.3 deg. C (Hours)	Percentage of Time > 28.3 deg. C (%)
NT60A	W0487	81-0550	06/06/08	118.5	20.5	25.0	22.3	71.4	60.2	0.0	0.0
NT60A	W0487	81-0686	06/30/08	2091.0	19.9	24.8	20.6	1048.6	50.1	0.0	0.0
NT60A	W0487	81-0741	07/11/08	118.0	22.7	23.9	23.3	118.0	100	0.0	0.0
NT60A	W0487	81-0933	08/08/08	120.0	19.0	20.1	19.4	2.5	2.1	0.0	0.0
NT68	W0486	81-0549	06/06/08	69.0	19.3	23.3	21.9	29.4	42.6	0.0	0.0
NT68	W0486	81-0685	06/30/08	2091.5	20.7	26.8	21.6	1378.6	65.9	0.0	0.0
NT68	W0486	81-0740	07/11/08	69.0	23.8	24.7	24.5	69.0	100	0.0	0.0
NT68	W0486	81-0932	08/08/08	71.0	20.5	21.5	21.4	54.7	77.1	0.0	0.0
PEPPOND	W0495	81-0871	07/14/08	45.0	25.0	25.7	25.7	45.0	100	0.0	0.0
PEPPOND	W0495	81-1067	08/29/08	119.0	21.3	22.4	21.9	119.0	100	0.0	0.0
PH01	W1809	81-0554	06/09/08	45.0	22.9	24.7	24.7	45.0	100	0.0	0.0
PH01	W1809	81-0681	06/20/08	2327.0	18.6	24.5	19.9	623.4	26.8	0.0	0.0
PH01	W1809	81-0745	07/14/08	44.0	20.1	22.2	22.2	23.7	53.9	0.0	0.0
PH01	W1809	81-0937	08/11/08	45.0	17.2	18.2	18.2	0.0	0.0	0.0	0.0
QXR01	W1821	81-0537	06/06/08	70.0	18.6	23.7	22.2	27.8	39.7	0.0	0.0
QXR01	W1821	81-0728	07/11/08	72.0	21.3	25.4	24.1	54.8	76.1	0.0	0.0
QXR01	W1821	81-0920	08/08/08	71.0	19.0	21.0	20.8	15.2	21.4	0.0	0.0
QXR02	W1822	81-0678	06/20/08	2327.0	17.8	22.4	18.8	259.0	11.1	0.0	0.0
SQ08	W1283	81-0546	06/06/08	73.0	17.0	21.0	19.2	15.2	20.9	0.0	0.0
SQ08	W1283	81-0683	06/20/08	2326.5	18.6	23.2	19.4	633.7	27.2	0.0	0.0
SQ08	W1283	81-0737	07/11/08	73.5	20.9	21.7	21.6	73.5	100	0.0	0.0
SQ08	W1283	81-0929	08/08/08	74.5	18.5	19.2	19.0	0.0	0.0	0.0	0.0
STL01	W0995	81-0539	06/06/08	0.0	--	--	--	--	--	--	--
STL01	W0995	81-0689	06/30/08	2091.0	17.5	22.1	18.0	146.4	7.0	0.0	0.0
STL01	W0995	81-0922	08/08/08	71.0	19.2	20.1	20.0	2.7	3.8	0.0	0.0
STL01	W0995	81-0730	--	--	--	--	--	--	--	--	--
STW01	W1820	81-0679	06/20/08	2327.0	19.1	25.1	20.4	857.1	36.8	0.0	0.0
SUC01	W1816	81-0547	06/06/08	69.5	19.5	26.5	25.1	34.6	49.8	0.0	0.0
SUC01	W1816	81-0930	08/08/08	71.0	19.7	21.8	21.7	27.5	38.8	0.0	0.0
SUC01	W1816	81-1154	09/12/08	119.0	17.4	21.4	19.5	8.2	6.9	0.0	0.0
SUC01	W1816	81-0738	--	--	--	--	--	--	--	--	--
WHR01	W1808	81-0555	06/09/08	43.5	24.4	26.6	26.6	43.5	100	0.0	0.0
WHR01	W1808	81-0746	07/14/08	43.0	20.1	22.6	22.6	21.6	50.3	0.0	0.0
WHR01	W1808	81-0938	08/11/08	44.0	20.1	21.5	21.5	23.1	52.5	0.0	0.0
WILL01	W1832	81-0553	06/09/08	46.5	22.4	25.0	25.0	46.5	100	0.0	0.0
WILL01	W1832	81-0936	08/11/08	46.5	18.1	19.0	19.0	0.0	0.0	0.0	0.0
WILL01	W1832	81-1153	09/12/08	119.0	17.4	19.8	18.8	0.0	0.0	0.0	0.0
WILL01	W1832	81-0744	--	--	--	--	--	--	--	--	--

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APPENDIX 1: 2008 DATA SYMBOLS AND QUALIFIERS

Excerpted from: Water Quality Data Validation Report for Year 2008 Project Data (CN 361.0)

The following data qualifiers or symbols are used in the MADEP/DWM WQD database for qualified and censored water quality and multiprobe data. Decisions regarding censoring vs. qualification for specific, problematic data are made based on a thorough review of all pertinent information related to the data. Data qualifiers reported by laboratories are typically either directly-transferable to DWM data (e.g., "H" for holding time violation) or indirectly-transferable, where the qualifier symbol is transformed to conform to DWM's qualifier list (e.g., "R" qualifier used by a lab to reject data due to poor QC results is transformed to "a").

General Symbols (applicable to all types):

" ## " = Censored data (i.e., data that has been discarded for some reason).

" ** " = Missing data (i.e., data that should have been reported).

" -- " = No data (i.e., data not taken/not required)

" ^^ " = No data due to no water

Multiprobe-specific Qualifiers:

" i " = inaccurate readings from Multiprobe likely; may be due to significant pre-survey calibration problems, post-survey checks outside typical acceptance ranges for the low ionic and deionized water checks, lack of calibration of the depth sensor prior to use, or to checks against laboratory analyses. Where documentation on unit pre-calibration is lacking, but SOPs at the time of sampling dictated pre-calibration prior to use, then data are considered potentially inaccurate.

" m " = method not followed; one or more protocols contained in the DWM Multiprobe SOP not followed, ie. operator error (eg. less than 3 readings per station (rivers) or per depth (lakes), or instrument failure not allowing method to be implemented.

" s " = field sheet recorded data were used to accept data, not data electronically recorded in the Multiprobe surveyor unit, due to operator error or equipment failure.

" u " = unstable readings, due to lack of sufficient equilibration time prior to final readings, non-representative location, highly-variable water quality conditions, etc. See Section 4.1 for acceptance criteria.

" c " = greater than calibration standard used for pre-calibration, or outside the acceptable range about the calibration standard. Typically used for conductivity (>718, 1,413, 2,760, 6,668 or 12,900 uS/cm) or turbidity (>10, 20 or 40 NTU). It can also be used for TDS and Salinity calculations based on qualified ("c") conductivity data, or that the calculation was not possible due to censored conductivity data (TDS and Salinity are calculated values and entirely based on conductivity reading). See Section 4.1 for acceptance criteria.

" r " = data not representative of actual field conditions.

" t " = tidal conditions

Sample-Specific Qualifiers:

“ a ” = accuracy as estimated at WES Lab via matrix spikes, PT sample recoveries, internal check standards and lab-fortified blanks did not meet project data quality objectives identified for program or in QAPP.

“ b ” = blank Contamination in lab reagant blanks and/or field blank samples (indicating possible bias high and false positives).

“ d ” = precision of field duplicates (as RPD) did not meet project data quality objectives identified for program or in QAPP. Batched samples may also be affected.

“ e ” = not theoretically possible. Specifically, used for bacteria data where colonies per unit volume for e-coli bacteria > fecal coliform bacteria, for lake Secchi and station depth data where a specific Secchi depth is greater than the reported station depth, and for other incongruous or conflicting results.

“ f ” = frequency of quality control duplicates did not meet data quality objectives identified for program or in QAPP.

“ h ” = holding time violation (usually indicating possible bias low)

“ j ” = ‘estimated’ value; used for lab-related issues where certain lab QC criteria are not met and re-testing is not possible (as identified by the WES lab only). Also used to report sample data where the sample concentration is less than the ‘reporting’ limit or RDL and greater than the method detection limit or MDL (mdl< x <rdl). Also used to note where values have been reported at levels less than the mdl.

“ m ” = method SOP not followed, only partially implemented or not implemented at all, due to complications with sample matrix (eg. sediment in sample, floc formation), lab error (eg. cross-contamination between samples), additional steps taken by the lab to deal with matrix complications, lost/unanalyzed samples, and missing data.

“ p ” = samples not preserved per SOP or analytical method requirements.

“ r ” = samples collected may not be representative of actual field conditions, including the possibility of “outlier” data and flow-limited conditions (e.g., pooled).

“ t ” = tidal conditions

APPENDIX 2: AMBIENT TOXICITY RESULTS FROM EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION I
OFFICE OF ENVIRONMENTAL MEASUREMENT & EVALUATION
11 TECHNOLOGY DRIVE, N. CHELMSFORD, MA 01863

MEMORANDUM

DATE: 1/26/09

SUBJ: Toxicity Test Report: October and November Nashua River Ambient Surface Water Samples - 2008

FROM: David McDonald, ECA/EMT

TO: Mr. James Meek, MADEP/DWM and Mr. Tom Faber USEPA/OEME/ECA

Assistance was provided to the State of Massachusetts, Division of Water Management (DWM) by the USEPA, Region 1, Office of Environmental Measurement and Evaluation (OEME), through the performance of toxicity testing of ambient surface water samples from the Nashua River in the vicinity of Fitchburg, MA. Historical toxicity testing performed as required under the East Fitchburg WWTP's current National Pollutant Discharge Elimination System (NPDES) permit has shown the presence of toxicity in about 40 % of the tests. Toxicity testing associated with the West Fitchburg WWTP which is upstream of East Fitchburg has resulted in no findings of toxicity. MADEP suspects a source of toxicity may be present between the East and West Fitchburg WWTPs. The goal of the current testing was to assist MADEP in determining the source of the toxicity. All field sampling and toxicity testing was performed according to the approved sampling and analysis plan (SAP) titled *Sampling & Analysis Plan, Aquatic Toxicity Monitoring, Nashua River Watershed 2008.* The following is a report of the activities pertaining to the performance of toxicity testing. The statistical analysis report can be found in Attachment 1 of this report.

All field sampling was performed by MADEP personnel. A composite sample from each MADEP selected sampling station was field preserved on ice, and delivered on the same day to the USEPA Region 1 New England Regional Laboratory (NERL) in North Chelmsford with a completed COC for aquatic toxicity testing. The initial samples for October and November from each station were taken and delivered to NERL on Wednesday, October 1st and Wednesday November 13th, respectively by 4PM. Toxicity test renewal samples were also collected by MADEP and delivered to NERL in the same manner as the original samples on the Friday and Monday following each of the original sampling days and delivered by 4 PM of the same day.

For both the October and November tests, upon delivery at the NERL, sample condition was inspected and noted in the toxicity testing sample receipt log and toxicity testing laboratory sample ID numbers were assigned (Table 1).

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Project Numbers 08100002, 08110020

Table 1. Toxicity Test Laboratory Sample Designation

Station ID	Station Description	Segment	Waterbody Name	Toxicity Testing Lab Designation *
NN08	Approximately 400 ft upstream of Hamilton Street, Fitchburg	MA81-02	North Nashua River	NN08
NN09	Airport Road, Fitchburg	MA81-02	North Nashua River	NN09
NN10	Approximately 200ft downstream of Circle Street, Fitchburg	MA81-02	North Nashua River	NN10
NNR01	Approximately 300ft downstream of Depot Street, Fitchburg	MA81-01	North Nashua River	NN01

* sample designation was the same for both months

Within thirty six hours of the initial samples being taken a *Pimephales promelas*, 7-day chronic toxicity test was initiated for each sample. All renewal samples were incorporated into testing within 36 hours of sampling as well. Sample preparation for toxicity testing consisted of a slow warming of a sample aliquot to a test acceptable temperature of 25° C +/- 1. Toxicity testing was performed on ambient samples with no dilutions.

Following test protocol, chemical analyses were performed for dissolved oxygen (DO), alkalinity, pH, conductivity, temperature and hardness on all initial samples received at the laboratory (Table 2a & 2b). During the test period, on a daily basis, 24-hour waste and renewal solutions were analyzed for DO, pH, conductivity and temperature.

Subsequent to toxicity testing, data was compiled and statistical analyses of the data was performed to determine the presence of toxicity through the comparison of site samples to the laboratory control (Attachment 1).

SAMPLE RECEIPT

Sample receipt and initiation of toxicity testing was completed successfully. Sample observations made upon sample receipt at the lab indicated that they were received in coolers on ice. The condition of all sample containers was good. Labeling and chain of custody (COC) information was satisfactory. It was noted that the appearance of water samples were consistent between initial and renewal samples for both events.

TOXICITY TEST RESULTS

Table 2a. October Initial Test Sample Chemistry

NERL Tox Lab Number	Hardness mg/L $CaCO_3$	Alkalinity mg/L	DO mg/L	Cond us/cm	pH
Lab control	68	41	9.6J	226	6.3
NN01	28	9	9.7J	187	5.9
NN08	28	13	9.7J	211	6.0
NN09	24	10	9.8J	206	5.9
NN10	28	10	9.7J	196	6.0

Table 2b. November Initial Test Sample Chemistry

NERL Tox Lab Number	Hardness mg/L $CaCO_3$	Alkalinity mg/L	DO mg/L	Cond us/cm	pH
Lab control	64	40	7.3	178	7.6
NN01	44	14	8.3	236	7.1
NN08	44	20	7.2	261	7.3
NN09	48	20	7.4	260	7.2
NN10	40	11	6.8	235	7.2

General Daily Test Chemistry

Dissolved oxygen, temperature, pH and conductivity were monitored throughout the performance period of the test. Initial and twenty-four hour "waste" test chemistry measurements were taken on each treatment and laboratory control each day of the test. Test chemistry was taken to ensure that test parameters were maintained as well as identifying deviations that may hinder test response interpretation.

Fathead Minnow

Test parameters were maintained at acceptable levels throughout the testing period for both testing events with the following exception. Based on review of the chemistry log it appears that for the October test the initial DO of the ambient samples was significantly greater than saturation.

A possible cause of this was warming of samples that were taken under cold ambient conditions. The consequent warming to test temperature sometimes results in a super-saturation condition. However, it was noted that the laboratory control water DO was also recorded at an elevated level in a similar range as site samples but did not undergo the warming process. It should be further noted that while DO appeared to be supersaturated in the control, test acceptability criteria (TAC) was met, reflecting no detrimental effect, as measured on the test control, for either survival or biomass. Examination of the calibration log indicates that calibration of the DO meter did take place with no issues documented prior to test measurements being taken. Whether the DO was actually as high as indicated is unclear. Nonetheless, initial DO data for the October test as shown in Table 2a is "flagged" with a "J" as estimated. If test organisms were exposed to super-saturated levels of oxygen for some period of time during the 24-hour exposure period, while not confirmable, it is possible that this exposure may have contributed to any toxicity detected. (Note: the MADEP project manager was made aware of this situation as soon as is was detected during October preliminary test review).

All initial test chemistry, including DO, for the November test event was acceptable indicating no adverse impact to test organisms from those test parameters.

Test Quality Assurance

Test Performance

All tests were performed as specified in the QAPP and by NERL approved standard operating procedures (SOPs) with the possible exception of DO as noted above. All test conditions and the feeding schedules were monitored and recorded in bound laboratory notebooks. Sample conditions and storage were documented in bound laboratory logbooks. All test chemistry and fish weights were documented in laboratory notebooks. Laboratory test benchsheets were kept, documenting daily counts and observations of test organisms.

Test Acceptability Criteria (TAC)

For both tests events all TAC were met indicating the tests were performed acceptably.

Test Variability

The October within treatment variability appears to have been elevated reflecting that the test may not be as sensitive as would be expected. Therefore, statistical analysis results indicating non- significant effects should be used with caution.

The November test variability is reasonable for this data set.

Reference Toxicity Test

In accordance with laboratory QA practice, a concurrent, reference toxicity test was run to document consistency of test organism response. The test was performed acceptably according to TAC review. Examination of the reference toxicity test results indicate that the test organism response was consistent with historic values documented in laboratory control charts.

Statistical Analysis

Statistical analyses were reviewed evaluating data input, variability and significance level.

Results Discussion

October Test

All test control TAC for both survival and growth were acceptable. However, test sensitivity for this test was perhaps lower than normal. This may explain why the percent survival in the sample from NN09 was not determined to be statistically significant as compared to the control. In addition, although not confirmable, test organism exposure to supersaturated oxygen conditions may have contributed to any detrimental effects detected. While TAC was met and reference test organism response was consistent with laboratory control charts, toxicity test results from statistical analysis for both endpoints are suspect and should be viewed with caution. That being said, for the sake of use, survival and biomass associated with NN09 is lower than for any other sample location and in the interest of narrowing down possible source locations the thought that an actual source of toxicity located upstream of NN09 and downstream of the next upgradient location should not be totally discounted.

November Test

All test control TAC for both survival and growth were acceptable. Statistical analyses indicated that there was a significant effect on test organism survival from location NN09. Looking at the statistical output for survival data, the ANOVA table "predicts" a finding of no significance and yet the group comparisons resulted in a finding of significance for NN09. A simple examination of survival data shows a mean percent survival of 92 for sample NN09. This finding of statistical significance is likely due to a data set characteristic or analysis anomaly and in this reviewer judgment does not reflect biological significance. Consequently, the survival result for NN09, while shown to be statistically significant, was reported here as non-significant indicating a finding of no toxicity. Statistical analysis of the biomass test data resulted in a finding of non-significance. Examination of the data supports this determination.

Summary

In the effort to find a source of toxicity results of both tests provide a mixed signal. October's results, due to elevated within replicate variability, are not scientifically useful but as noted above there may be some evident of a source of toxicity upgradient of station NN09. On the other hand, November's test was run and all test data and results are usable with findings showing no indication of toxicity associated with any of the samples. Perhaps the toxicity detected in historic NPDES receiving water testing has an episodic or seasonal source. Further examination of the temporal nature of previous toxicity found may shed some light on findings of toxicity to date.

ATTACHMENT 1
TOXICITY TEST DATA
&
STATISTICS

CETIS Test Summary

Report Date: 25 Nov-08 7:57 AM
Test Link: 01-1826-6091

Fathead Minnow 7-d Larval Survival and Growth Test — **U.S. EPA Region I Lab**

Test No:	10-2152-1119	**Test Type:**	Growth-Survival (7d)	**Duration:**	6d 23h
Start Date:	02 Oct-08 01:30 PM	**Protocol:**	EPA/821/R-02-013 (2002)	**Species:**	Pimephales promelas
Ending Date:	09 Oct-08 01:00 PM	**Dil Water:**	Not Applicable	**Source:**	EPA Cincinnati
Setup Date:	02 Oct-08 01:30 PM	**Brine:**			
Comments:	Nashua River October 2008				

Sample No:	14-6322-8715	**Material:**	Site Surface Water	**Client:**	Mass DEP
Sample Date:	02 Oct-08 11:25 AM	**Code:**	control	**Project:**	Special Studies
Receive Date:		**Source:**	Nashua River		
Sample Age:	2h	**Station:**	control		

Sample No:	12-1262-4713	**Material:**	Site Surface Water	**Client:**	Mass DEP
Sample Date:	01 Oct-08 12:00 PM	**Code:**	NN01	**Project:**	Special Studies
Receive Date:		**Source:**	Nashua River		
Sample Age:	26h	**Station:**	NNR01		

Sample No:	03-8342-6592	**Material:**	Site Surface Water	**Client:**	Mass DEP
Sample Date:	01 Oct-08 12:00 PM	**Code:**	NN08	**Project:**	Special Studies
Receive Date:		**Source:**	Nashua River		
Sample Age:	26h	**Station:**	NN08		

Sample No:	16-1319-3320	**Material:**	Site Surface Water	**Client:**	Mass DEP
Sample Date:	01 Oct-08 12:00 PM	**Code:**	NN09	**Project:**	Special Studies
Receive Date:		**Source:**	Nashua River		
Sample Age:	26h	**Station:**	NN09		

Sample No:	13-0296-4701	**Material:**	Site Surface Water	**Client:**	Mass DEP
Sample Date:	01 Oct-08 12:00 PM	**Code:**	NN10	**Project:**	Special Studies
Receive Date:		**Source:**	Nashua River		
Sample Age:	26h	**Station:**	NN10		

7d Proportion Survived Summary

Sample Code	Reps	Mean	Minimum	Maximum	SE	SD	CV
control	4	1.00000	1.00000	1.00000	0.00000	0.00000	0.00%
NN01	4	0.72500	0.30000	1.00000	0.15478	0.30957	42.70%
NN08	4	0.77500	0.60000	0.90000	0.07500	0.15000	19.35%
NN09	4	0.62500	0.10000	1.00000	0.20565	0.41130	65.81%
NN10	4	0.72500	0.60000	1.00000	0.09465	0.18930	26.11%

Mean Dry Biomass-mg Summary

Sample Code	Reps	Mean	Minimum	Maximum	SE	SD	CV
control	4	0.61550	0.54800	0.67800	0.02683	0.05366	8.72%
NN01	4	0.49500	0.21400	0.67500	0.10118	0.20236	40.88%
NN08	4	0.58850	0.51700	0.62900	0.02551	0.05103	8.67%
NN09	4	0.48875	0.09900	0.71400	0.14053	0.28106	57.51%
NN10	4	0.53725	0.45300	0.64700	0.04354	0.08708	16.21%

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PN #s 08100002, 08110020

Analyst: Approval: 1/6/19

CETIS Analysis Detail

Fathead Minnow 7-d Larval Survival and Growth Test — U.S. EPA Region I Lab

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Biomass-mg	Comparison	01-1826-6091	01-1826-6091	25 Nov-08 7:56 AM	CETISv1.1.1

Method	Alt H	Data Transform	Zeta	NOEL	LOEL	Toxic Units	ChV	PMSD
Dunnett's Multiple Comparison	C > T	Untransformed				N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P-Value	Decision(0.01)
Variances	Bartlett	11.33718	13.27670	0.02302	Equal Variances
Distribution	Shapiro-Wilk W	0.90678		0.05536	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P-Value	Decision(0.05)
Between	0.0503451	0.0125863	4	0.47	0.75483	Non-Significant Effect
Error	0.3990296	0.026602	15			
Total	0.44937464	0.0391882	19			

Group Comparisons

Sample	vs	Sample	Statistic	Critical	P-Value	MSD	Decision(0.05)
control		NN01	1.04482	2.35615	0.3646	0.27174	Non-Significant Effect
		NN08	0.23408	2.35615	0.7160	0.27174	Non-Significant Effect
		NN09	1.09898	2.35615	0.3427	0.27174	Non-Significant Effect
		NN10	0.67844	2.35615	0.5246	0.27174	Non-Significant Effect

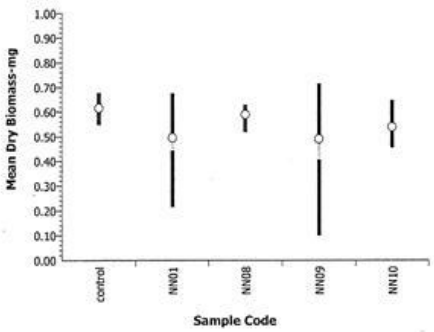
Data Summary

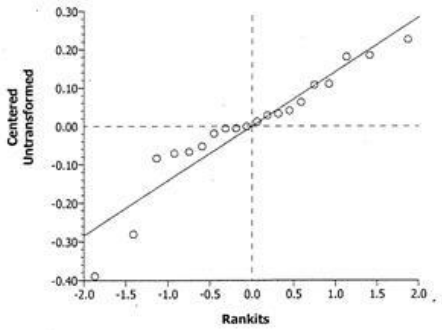
		Original Data				Transformed Data			
Sample Code	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
control	4	0.61550	0.54800	0.67800	0.05366				
NN01	4	0.49500	0.21400	0.67500	0.20236				
NN08	4	0.58850	0.51700	0.62900	0.05103				
NN09	4	0.48875	0.09900	0.71400	0.28106				
NN10	4	0.53725	0.45300	0.64700	0.08708				

Data Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
control	0.54800	0.67800	0.62700	0.60900						
NN01	0.67500	0.60200	0.48900	0.21400						
NN08	0.62900	0.62100	0.58701	0.51700						
NN09	0.46900	0.71400	0.67300	0.09900						
NN10	0.48400	0.45300	0.56500	0.64700						

Graphics





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Analyst: Approval: 1/6/09

CETIS Analysis Detail

Fathead Minnow 7-d Larval Survival and Growth Test — U.S. EPA Region I Lab

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
7d Proportion Survived	Comparison	01-1826-6091	01-1826-6091	25 Nov-08 7:55 AM	CETISv1.1.1

Method	Alt H	Data Transform	Zeta	NOEL	LOEL	Toxic Units	ChV	PMSD
Dunnett's Multiple Comparison	C > T	Angular (Corrected)				N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P-Value	Decision(0.01)
Variances	Modified Levene	3.18353	4.89321	0.04424	Equal Variances
Distribution	Shapiro-Wilk W	0.95883		0.52072	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P-Value	Decision(0.05)
Between	0.5070695	0.1267674	4	1.35	0.29779	Non-Significant Effect
Error	1.409543	0.0939695	15			
Total	1.91661221	0.2207369	19			

Group Comparisons

Sample	vs	Sample	Statistic	Critical	P-Value	MSD	Decision(0.05)
control		NN01	1.63338	2.35615	0.1675	0.51072	Non-Significant Effect
		NN08	1.46792	2.35615	0.2131	0.51072	Non-Significant Effect
		NN09	2.16813	2.35615	0.0699	0.51072	Non-Significant Effect
		NN10	1.69858	2.35615	0.1517	0.51072	Non-Significant Effect

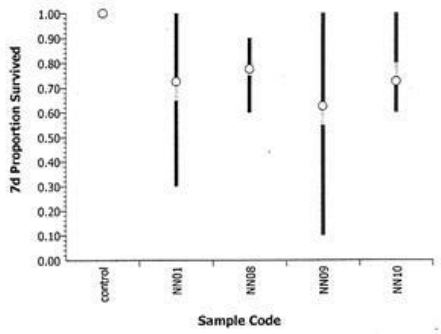
Data Summary

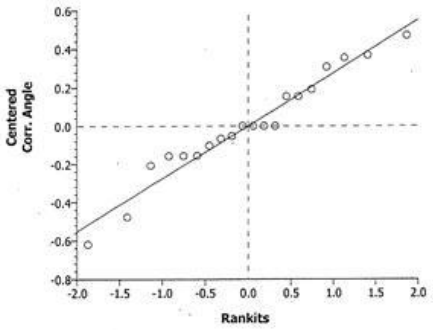
		Original Data				Transformed Data			
Sample Code	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
control	4	1.00000	1.00000	1.00000	0.00000	1.41202	1.41202	1.41202	0.00027
NN01	4	0.72500	0.30000	1.00000	0.30957	1.05796	0.57964	1.41202	0.36292
NN08	4	0.77500	0.60000	0.90000	0.15000	1.09383	0.88608	1.24905	0.18429
NN09	4	0.62500	0.10000	1.00000	0.41130	0.94205	0.32175	1.41202	0.49140
NN10	4	0.72500	0.60000	1.00000	0.18930	1.04383	0.88608	1.41202	0.25040

Data Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
control	1.00000	1.00000	1.00000	1.00000						
NN01	1.00000	0.90000	0.70000	0.30000						
NN08	0.90000	0.90000	0.70000	0.60000						
NN09	0.50000	1.00000	0.90000	0.10000						
NN10	0.60000	0.60000	0.70000	1.00000						

Graphics





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Analyst: [signature] Approval: 4/6/09

CETIS Test Summary

Report Date: 24 Nov-08 11:23 AM
Test Link: 04-9922-1438

Fathead Minnow 7-d Larval Survival and Growth Test — **U.S. EPA Region I Lab**

Test No:	10-8769-5334	**Test Type:**	Growth-Survival (7d)	**Duration:**	7d 0h
Start Date:	13 Nov-08 01:00 PM	**Protocol:**	EPA/821/R-02-013 (2002)	**Species:**	Pimephales promelas
Ending Date:	20 Nov-08 01:39 PM	**Dil Water:**	Not Applicable	**Source:**	EPA Cincinnati
Setup Date:	13 Nov-08 01:00 PM	**Brine:**			
Comments:	Nashua River November 2008				

Sample No:	17-5129-3902	**Material:**	Site Surface Water	**Client:**	Mass DEP
Sample Date:	13 Nov-08 11:15 AM	**Code:**	control	**Project:**	Special Studies
Receive Date:		**Source:**	Nashua River		
Sample Age:	104m	**Station:**	control		

Sample No:	10-7066-2343	**Material:**	Site Surface Water	**Client:**	Mass DEP
Sample Date:	12 Nov-08 10:46 AM	**Code:**	NN01	**Project:**	Special Studies
Receive Date:		**Source:**	Nashua River		
Sample Age:	26h	**Station:**	NNR01		
Comments:	Nashua River November 2008				

Sample No:	02-6984-2330	**Material:**	Site Surface Water	**Client:**	Mass DEP
Sample Date:	12 Nov-08 11:12 AM	**Code:**	NN09	**Project:**	Special Studies
Receive Date:		**Source:**	Nashua River		
Sample Age:	26h	**Station:**	NN09		

Sample No:	07-9897-8222	**Material:**	Site Surface Water	**Client:**	Mass DEP
Sample Date:	12 Nov-08 11:12 AM	**Code:**	NN10	**Project:**	Special Studies
Receive Date:		**Source:**	Nashua River		
Sample Age:	26h	**Station:**	NN10		

Sample No:	09-3108-6043	**Material:**	Site Surface Water	**Client:**	Mass DEP
Sample Date:	12 Nov-08 11:11 AM	**Code:**	NNO8	**Project:**	Special Studies
Receive Date:		**Source:**	Nashua River		
Sample Age:	26h	**Station:**	NN08		

7d Proportion Survived Summary

Sample Code	Reps	Mean	Minimum	Maximum	SE	SD	CV
control	4	1.00000	1.00000	1.00000	0.00000	0.00000	0.00%
NN01	4	0.97500	0.90000	1.00000	0.02500	0.05000	5.13%
NNO8	4	1.00000	1.00000	1.00000	0.00000	0.00000	0.00%
NN09	4	0.92500	0.90000	1.00000	0.02500	0.05000	5.41%
NN10	4	0.95000	0.90000	1.00000	0.02887	0.05774	6.08%

Mean Dry Biomass-mg Summary

Sample Code	Reps	Mean	Minimum	Maximum	SE	SD	CV
control	4	0.71900	0.63200	0.82700	0.04026	0.08053	11.20%
NN01	4	0.68525	0.65200	0.70500	0.01151	0.02301	3.36%
NNO8	4	0.64025	0.53201	0.72500	0.04488	0.08977	14.02%
NN09	4	0.66400	0.64800	0.69200	0.00970	0.01941	2.92%
NN10	4	0.70200	0.66900	0.73400	0.01638	0.03275	4.67%

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CETIS Analysis Detail

Fathead Minnow 7-d Larval Survival and Growth Test — U.S. EPA Region I Lab

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
7d Proportion Survived	Comparison	04-9922-1438	04-9922-1438	24 Nov-08 11:09 AM	CETISv1.1.1

Method	Alt H	Data Transform	Zeta	NOEL	LOEL	Toxic Units	ChV	PMSD
Dunnett's Multiple Comparison	C > T	Angular (Corrected)				N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P-Value	Decision(0.01)
Variances	Modified Levene	1.75000	4.89321	0.19153	Equal Variances
Distribution	Shapiro-Wilk W	0.95199		0.39839	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P-Value	Decision(0.05)
Between	0.0451509	0.0112877	4	2.55	0.08243	Non-Significant Effect
Error	0.0663983	0.0044266	15			
Total	0.11154919	0.0157143	19			

Group Comparisons

Sample	vs	Sample	Statistic	Critical	P-Value	MSD	Decision(0.05)
control		NN01	0.86603	2.35615	0.4408	0.11085	Non-Significant Effect
		NNO8	0	2.35615	0.8000	0.11085	Non-Significant Effect
		NN09	2.59808	2.35615	0.0320	0.11085	Significant Effect
		NN10	1.73205	2.35615	0.1441	0.11085	Non-Significant Effect

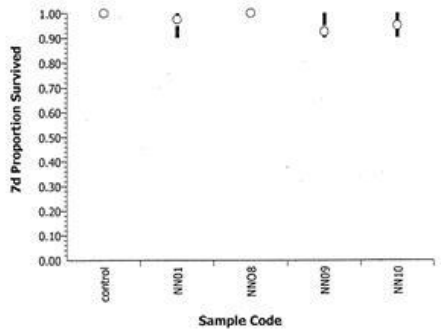
Data Summary

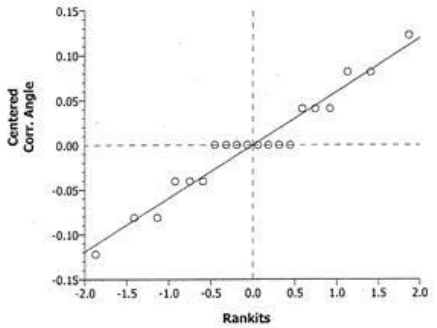
		Original Data				Transformed Data			
Sample Code	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
control	4	1.00000	1.00000	1.00000	0.00000	1.41202	1.41202	1.41202	0.00027
NN01	4	0.97500	0.90000	1.00000	0.05000	1.37127	1.24905	1.41202	0.08149
NNO8	4	1.00000	1.00000	1.00000	0.00000	1.41202	1.41202	1.41202	0.00027
NN09	4	0.92500	0.90000	1.00000	0.05000	1.28979	1.24905	1.41202	0.08149
NN10	4	0.95000	0.90000	1.00000	0.05773	1.33053	1.24905	1.41202	0.09409

Data Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
control	1.00000	1.00000	1.00000	1.00000						
NN01	1.00000	0.90000	1.00000	1.00000						
NNO8	1.00000	1.00000	1.00000	1.00000						
NN09	0.90000	0.90000	1.00000	0.90000						
NN10	1.00000	0.90000	0.90000	1.00000						

Graphics





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Analyst: Approval: 1/6/09

CETIS Analysis Detail

Fathead Minnow 7-d Larval Survival and Growth Test — U.S. EPA Region I Lab

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Biomass-mg	Comparison	04-9922-1438	04-9922-1438	24 Nov-08 11:09 AM	CETISv1.1.1

Method	Alt H	Data Transform	Zeta	NOEL	LOEL	Toxic Units	ChV	PMSD
Dunnett's Multiple Comparison	C > T	Untransformed				N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P-Value	Decision(0.01)
Variances	Bartlett	9.42942	13.27670	0.05122	Equal Variances
Distribution	Shapiro-Wilk W	0.96815		0.71548	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P-Value	Decision(0.05)
Between	0.0153862	0.0038466	4	1.16	0.36555	Non-Significant Effect
Error	0.0495662	0.0033044	15			
Total	0.06495242	0.007151	19			

Group Comparisons

Sample	vs	Sample	Statistic	Critical	P-Value	MSD	Decision(0.05)
control		NN01	0.83037	2.35615	0.4565	0.09577	Non-Significant Effect
		NNO8	1.93737	2.35615	0.1036	0.09577	Non-Significant Effect
		NN09	1.35318	2.35615	0.2494	0.09577	Non-Significant Effect
		NN10	0.41826	2.35615	0.6401	0.09577	Non-Significant Effect

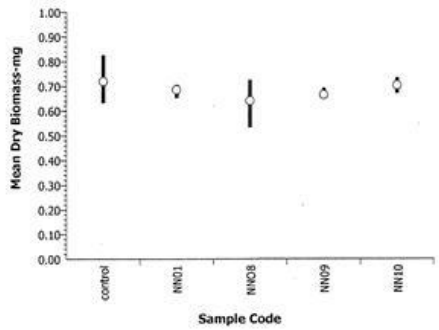
Data Summary

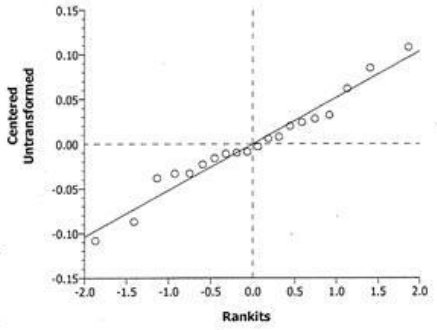
		Original Data				Transformed Data			
Sample Code	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
control	4	0.71900	0.63200	0.82700	0.08053				
NN01	4	0.68525	0.65200	0.70500	0.02301				
NNO8	4	0.64025	0.53201	0.72500	0.08977				
NN09	4	0.66400	0.64800	0.69200	0.01941				
NN10	4	0.70200	0.66900	0.73400	0.03275				

Data Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
control	0.70800	0.63200	0.82700	0.70900						
NN01	0.69100	0.70500	0.65200	0.69300						
NNO8	0.70200	0.53201	0.72500	0.60200						
NN09	0.66099	0.64800	0.69200	0.65500						
NN10	0.73400	0.72600	0.66900	0.67900						

Graphics





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Analyst: DV Approval: 11/6/09