Technical Memorandum

WEYMOUTH AND WEIR WATERSHED 2009
DWM WATER QUALITY MONITORING DATA

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Division of Watershed Management
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COMMONWEALTH OF MASSACHUSETTS
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Introduction

The Weymouth and Weir River Watershed water quality survey was conducted in 2009 along with benthic macroinvertebrate sampling and fish population sampling as part of the Division of Watershed Management (DWM) Year Two monitoring. Consistent with DWM's general approach to watershed monitoring to meet defined programmatic objectives, water quality surveys were conducted during the months of May, June, July, August and September. This technical memorandum is designed to present final DWM generated water quality monitoring data for use in watershed assessment reports and for reporting data to outside groups. The results of biomonitoring will be reported in separate memoranda.

Project Objectives

The results of the 2009 Weymouth and Weir River Watershed water quality monitoring factor into regulatory actions taken by the Massachusetts Department of Environmental Protection (MassDEP) and the United States Environmental Protection Agency (US EPA), are incorporated into the DWM's Water Quality Assessment Reports and are used to update the Section 305(b) and Section 303(d) reporting elements of the Clean Water Act. Additionally, these data are used in the development of Total Maximum Daily Loads (TMDLs) to address waters not attaining water quality standards and to aid in the development of National Pollutant Discharge Elimination System (NPDES) permits.

The specific objectives of the 2009 Weymouth and Weir River Watershed monitoring were to:

1) Collect physico-chemical data to assess the *Aquatic Life Use*.

2) Collect biological data (benthic macroinveterbrate, fish population, habitat assessments and algal population) to assess the *Aquatic Life Use*. Fish population data will also be used to determine whether a cold-water fishery exists in segments sampled. The results of the fish population monitoring will be detailed in a separate technical memorandum.

3) Collect bacteria data to assess *Primary and Secondary Contact Recreational Uses*. Field observations during sampling will be used to assess the *Aesthetics Use*.

4) Screen fish to provide information to the Massachusetts Department of Public Health (MDPH) for public health risk assessment due to fish tissue contaminants (metals, polychlorinated biphenyls or PCBs and pesticides). The results of the 2009 fish toxics monitoring are detailed in a separate technical memorandum (Maietta *et. al* 2010).

5) Gather water quality data to determine long term trends in water quality in the Weymouth and Weir Watershed.

6) Gather stream temperature data to determine whether a cold water fishery exists in segments sampled.

Sampling Plan

Information pertaining to station locations, rationale and objectives is available in *Sampling Plan for Year 2009 Surface Water Monitoring in the Weymouth/Weir Basin* (Reardon 2009). For a description of the DWM's general approach to watershed monitoring, see the *MADEP, DWM QAPP for Surface Water Monitoring and Assessment, 2005-2009* (MassDEP 2005a). Table 1 and Figure 1 provide details and locations of all of the 2009 sampling sites.

Five water quality surveys consisting of grab samples for water chemistry and *E. coli* bacteria as well as *in-situ* measurements were conducted on the following dates: May 5th, June 9th, July 14th, August 18th and

September 22nd. In addition to these five sampling dates an additional bacteria-only sampling run was conducted on September 10th. Samples for total phosphorus, total nitrogen, ammonia-nitrogen, color and turbidity were obtained from a total of twenty-two stations. Samples for total suspended solids were taken at three stations. Samples were taken for *E. coli* analysis at twenty-three stations. A single sample for *Enterocci* bacteria was taken at one station. Metals were sampled at three stations on June 4th, July 6th, August 10th, and August 31st. Finally, water samples from five sites were analyzed for hardness.

In-situ measurements of temperature, dissolved oxygen, pH, and conductivity were collected at twenty seven stations. Continuous temperature and dissolved oxygen monitoring with unattended probes was carried out for a minimum duration of 24 hours at thirteen sites. Continuous temperature monitoring was also conducted at nine stations to determine whether a cold-water fishery exists in each of the sampled segments. Flow status was checked at three locations along Accord Brook on the water quality sampling survey dates in 2009.

Table 1. 2009 Weymouth and Weir Watershed Sampling Summary

Unique ID	Station ID	Waterbody	Description	Latitude	Longitude	Total Nitrogen,Total Phosphorus, Ammonia-N	Total Suspended Solids	*E. coli* Bacteria	*Enterococci* Bacteria	Color, Turbidity	Attended Probe	Deployed Multiprobe	Temperature Logger	Hardness	Metals
W2035	ACCB01	Accord Brook	[Union Street, Hingham (Wompatuck State Park)]	42.2115	-70.8593						X				
W2036	ACCB02	Accord Brook	[South Pleasant Street, Hingham (Wompatuck State Park)]	42.2051	-70.8633						X				
W2037	ACCB03	Accord Brook	[Prospect Street, Hingham]	42.1914	-70.8652	X		X		X	X	X			
W2052	CHR00	Unnamed Tributary	[unnamed tributary to the Mary Lee Brook locally considered part of Cochato River, approximately 20 feet downstream of North Shore Road, Holbrook]	42.1473	-71.0196									X	X
W2089	CHR00D	Cochato River	[Mear Road, Holbrook]	42.1531	-71.0268						X			X	X
W2051	CHR01	Cochato River	[downstream of road and two stormwater outfalls, Route 139 (Union Street), Holbrook]	42.1554	-71.0265	X		X		X	X	X		X	
W2042	CMR02	Crooked Meadow River	[approximately 50 feet upstream of Route 228 (Main Street), Hingham]	42.2148	-70.8849	X		X		X	X				
W2049	CRB02	Cranberry Brook	[upstream of road and two stormwater outfalls, Route 37 (Washington Street), Braintree]	42.1838	-71.0113	X		X		X	X	X			
W2040	EEL01	Eel River	[Cushing Street, Hingham]	42.2028	-70.8973						X		X		
W2027	FB01	Furnace Brook	[Newport Avenue, Quincy]	42.2571	-71.0110	X		X		X	X	X			
W2026	FB02	Furnace Brook	[Reardon Street, Quincy]	42.2477	-71.0283	X	X	X		X	X	X			

Table 1 (continued). 2009 Weymouth and Weir Watershed Sampling

Unique ID	Station ID	Waterbody	Description	Latitude	Longitude	Total Nitrogen,Total Phosphorus, Ammonia-N	Total Suspended Solids	*E. coli* Bacteria	*Enterococci* Bacteria	Color, Turbidity	Attended Probe	Deployed Multiprobe	Temperature Logger	Hardness	Metals
W2053	FR01	Farm River	[approximately 300 feet upstream from Pond Street, Braintree]	42.1992	-71.0240	X		X		X	X		X		
W2050	MLB01	Mary Lee Brook	[footbridge crossing of the western end of Joyce Circle, Randolph]	42.1513	-71.0405	X		X		X	X	X	X		
W2030	MONT02	Monatiquot River	[approximately 700 feet upstream from Commercial Street, Braintree]	42.2206	-70.9805	X		X		X	X	X			
W2031	MONT03	Monatiquot River	[River Street, Braintree]	42.2201	-70.9992	X		X		X	X	X			
W2047	MR01	Mill River	[Front Street (upstream of the outfall downstream of the bridge), Weymouth]	42.1932	-70.9593	X		X		X	X				
W2115	MR01D	Mill River	['stormwater outfall' pipe on southern bank just downstream of Front Street, Weymouth]	42.1932	-70.9591			X							
W2048	MR02	Mill River	[West Street, Weymouth]	42.1879	-70.9623	X		X		X	X				
W2043	OSWP01	Old Swamp River	[Sharp Street, Hingham]	42.1629	-70.9225	X		X		X	X	X	X	X	X
W2044	OSWP02	Old Swamp River	[Ralph Talbot Street, Weymouth]	42.1781	-70.9346	X		X		X	X				
W2045	OSWP03	Old Swamp River	[Elm Street, Weymouth]	42.1826	-70.9354	X		X		X	X	X	X	X	
W2046	OSWP04	Old Swamp River	[Libbey Industrial Parkway, Weymouth]	42.1926	-70.9433	X		X		X	X				
W2039	PLR	Plymouth River	[Ward Street, Hingham]	42.2030	-70.9015	X		X		X	X		X		
W2029	TB01	Town Brook	[Miller Stile Road, Quincy]	42.2476	-70.9977	X	X	X		X	X				
W2028	TB02	Town Brook	[Elm Street, Quicy]	42.2517	-70.9972	X	X	X	X	X	X				

Table 1 (continued). 2009 Weymouth and Weir Watershed Sampling

Unique ID	Station ID	Waterbody	Description	Latitude	Longitude	Total Nitrogen,Total Phosphorus, Ammonia-N	Total Suspended Solids	*E. coli* Bacteria	*Enterococci* Bacteria	Color, Turbidity	Attended Probe	Deployed Multiprobe	Temperature Logger	Hardness	Metals
W2038	UNTP01	Unnamed Tributary	[unnamed tributary to the Plymouth River at the most northerly Cushing Street crossing, Hingham]	42.1879	-70.9010						X		X		
W2032	WB02	Weymouth Back River	[approximately 560 feet downstream of Commercial Street, Weymouth]	42.2169	-70.9224	X		X		X	X	X			
W2033	WR01	Weir River	[Route 228 (East Street), Hingham]	42.2426	-70.8591	X		X		X	X	X	X		
W2034	WR02	Weir River	[Leavitt Street, Hingham]	42.2346	-70.8723	X		X		X	X	X	X		
			Totals			22	3	23	1	22	27	13	9	5	3

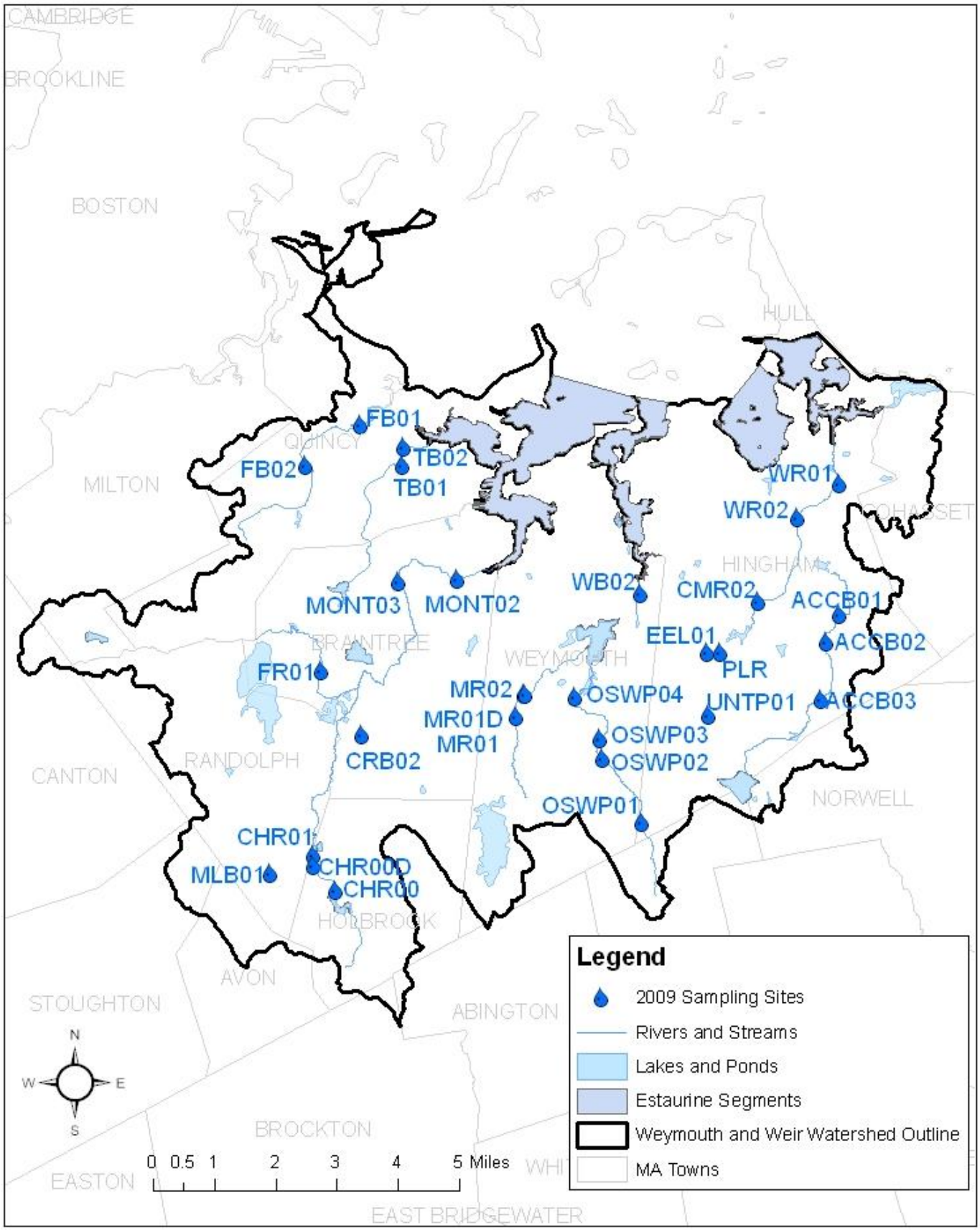

Figure 1. MassDEP, DWM 2009 Monitoring Station Locations in the Weymouth and Weir Watershed

Field and Analytical Methods

Procedures used for water sampling and sample handling are described in the *Sample Collection Techniques for DWM Surface Water Quality Monitoring* (MassDEP 2004) and *Ambient Trace Metal Sampling* (MassDEP 2012a). The Wall Experiment Station (WES) in Lawrence, MA 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 for multi-probe calibration and deployment are described in *Water Quality Multi-probe Data Collection* (MassDEP 2005b) and *Multi-probe Deployments for Continuous Unattended Water Quality Data Collection* (MassDEP 2007a). Temperature loggers were deployed using standard procedures outlined in *Continuous Temperature Monitoring using Temperature-only Loggers* (MassDEP 2007b).

Wade-in grab samples were also collected and sent to Wall Experiment Station (WES) in Lawrence, MA where they were analyzed for low-level total phosphorus (TP), total nitrogen (TN), ammonia as nitrogen (NH_3-N) and hardness as appropriate. Hardness samples were also analyzed at the DWM laboratory in Worcester, MA. Bacteria samples (*E. coli* and *Enterococci*) were analyzed at G&L Laboratories in Quincy, MA. Color and turbidity were analyzed at the DWM laboratory in Worcester, MA. *In-situ* parameters measured using a multi-probe included dissolved oxygen, percent saturation, pH, conductivity, temperature, and total dissolved solids.

Concurrent with the collection of water quality samples, site characteristics and sampling conditions were recorded on DWM field sheets. Riparian vegetation, observed uses, 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 (Table 2).

Quality Assurance and Quality Control

Monitoring data collected as part of the 2009 Weymouth and Weir River Watershed sampling project have generally met the specific programmatic data quality objectives (DQOs) outlined in the applicable quality assurance project plan (MassDEP 2005a) or have met data validation criteria sufficient for publication. Quality assurance for watershed monitoring by the DWM is provided to ensure the implementation of an effective and efficient sampling design, and to provide data to meet specific data quality objectives.

The DWM quality assurance and database management staff reviewed lab data reports and all multi-probe data. The data were validated and finalized per appropriate data validation procedures as outlined in *DWM Water Quality Data Validation Process (Summary)* (MassDEP 2012b). Detailed data validation procedures for laboratory data, attended multi-probe data and unattended multi-probe data were conducted using appropriate procedures (MassDEP 2012c, MassDEP 2012d, MassDEP 2012e). A complete summary of the review process for all 2007 DWM data is provided in the *Water Quality Data Validation Report for Year 2009 Project Data* (MassDEP 2012f). Appendix 1 of this technical memorandum contains definitions for all data qualifiers (MassDEP 2012f).

Station Observations

Station observations were recorded on field sheets for each survey by a DWM investigator. Station observations are described below in Table 2 for each DWM sampling event (MassDEP 2009). Note: If multiple types of periphyton were observed, the highest observed density is used in this table.
S=sparse (0-25%, M=moderate (25-50%), D=dense (50-75%), VD=very dense (75-100%), N=none, U=unobservable, NR=not recorded

Table 2. 2009 Field observations from MassDEP DWM surveys

												Areal Density				
Station ID	**Unique ID**	**Date**	**Time**	**Flow Status**	**Odor**	**Water Clarity**	**Color**	**Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**
ACCB01	W2035	5/5/09	10:54	Flowing	N	Clear	Reddish	No		No		N	NR	NR	NR	M
ACCB01	W2035	6/9/09	10:52	Flowing	N	Clear	Clear	No		No		N	NR	NR	NR	D
ACCB01	W2035	7/14/09	10:55	Flowing	N	Clear	Rusty	No		No		N	NR	S	NR	M
ACCB01	W2035	8/18/09	10:55	Flowing	N	Clear	Brownish	No		No		N	NR	NR	NR	D
ACCB01	W2035	8/31/09	12:50	Flowing	N	Clear	Reddish	Yes	foam natural	No		U	U	U	U	U
ACCB01	W2035	9/10/09	10:40	Flowing	N	Clear	Clear	No		No		N	NR	S	M	VD
ACCB01	W2035	9/22/09	11:02	Flowing	N	Clear	Reddish	No		Yes	Trash (old fencing)	N	NR	NR	S	D
ACCB02	W2036	5/5/09	11:42	Flowing	N	Clear	Reddish	No		No		N	N	N	N	N
ACCB02	W2036	6/9/09	11:27	Flowing	N	Clear	Clear	No		No		N	NR	NR	NR	VD
ACCB02	W2036	7/14/09	11:50	Flowing	N	Clear	Rusty	No		No		N	NR	NR	NR	D
ACCB02	W2036	8/18/09	11:40	Flowing	N	Clear	Clear	No		No		N	NR	S	NR	D
ACCB02	W2036	8/31/09	13:22	Flowing	N	Clear	Reddish	Yes	foam natural	No		N	NR	NR	NR	VD
ACCB02	W2036	9/10/09	11:04	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	NR	NR	VD
ACCB02	W2036	9/22/09	11:52	Flowing	N	Clear	Reddish	Yes	Foam	No		N	NR	NR	NR	D
ACCB03	W2037	5/5/09	11:52	Flowing	Petroleum ?	Clear	Reddish	No		No		S	NR	NR	NR	D
ACCB03	W2037	6/8/09	11:44	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
ACCB03	W2037	6/9/09	11:39	Flowing	N	Clear	Brownish	No		No		S	NR	NR	NR	VD
ACCB03	W2037	7/13/09	13:08	Flowing	N	Slightly Turbid	Brownish	Not Applicable - Probe Deploy Field Sheet								
ACCB03	W2037	7/14/09	12:02	Flowing	Musty (Basement)	Clear	Rusty	No		No		S	NR	S	NR	D
ACCB03	W2037	8/17/09	10:04	Flowing	Musty (Basement)	Slightly Turbid	Reddish	Not Applicable - Probe Deploy Field Sheet								

Table 2 (continued). 2009 Field observations from MassDEP DWM surveys

												Areal Density				
Station ID	**Unique ID**	**Date**	**Time**	**Flow Status**	**Odor**	**Water Clarity**	**Color**	**Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**
ACCB03	W2037	8/18/09	11:50	Flowing	N	Slightly Turbid	Reddish	No		No		S	NR	NR	S	VD
ACCB03	W2037	8/31/09	13:48	Flowing	N	Clear	Reddish	No		No		N	NR	NR	NR	VD
ACCB03	W2037	9/10/09	11:14	Flowing	N	Clear	Brownish	No		No		N	NR	NR	NR	VD
ACCB03	W2037	9/22/09	12:05	Flowing	N	Clear	Brownish	No		No		N	NR	NR	NR	D
CHR00	W2052	6/4/09	13:05	Flowing	Other (pond)	Clear	Clear	Yes	natural foam	No		N	NR	D	NR	NR
CHR00	W2052	7/6/09	11:40	Flowing	Other (pond, musty basement)	Clear	Light Yellow/Tan	Yes	foam: natural foam from pond	No		N	NR	M	NR	S
CHR00	W2052	8/10/09	12:25	Flowing	Musty (Basement)	Slightly Turbid	Light Yellow/Tan	Yes	foam	Yes	trash, orange floc, oily sheen natural	N	NR	D	S	NR
CHR00	W2052	8/31/09	10:50	Flowing	N	Clear	Light Yellow/Tan	Yes	foam natural	Yes	trash minor	N	NR	M	NR	NR
CHR00D	W2089	6/4/09	12:49	Flowing	N	Clear	Light Yellow/Tan	Yes	oily sheens, pollen/dust blankets	No		N	NR	M	NR	M
CHR00D	W2089	6/8/09	13:30	Flowing	N	Clear	Light Yellow/Tan	No		Yes	trash: heavy trash	N	S	D	NR	S
CHR00D	W2089	7/6/09	12:02	Flowing	N	Clear	Light Yellow/Tan	No		No		N	M	NR	NR	NR
CHR00D	W2089	7/13/09	14:54	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		Yes	trash	N	NR	NR	NR	M
CHR00D	W2089	7/15/09	14:10	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		Yes	trash: light	N	M	D	NR	S
CHR00D	W2089	8/10/09	12:45	Flowing	Musty (Basement)	Slightly Turbid	Light Yellow/Tan	No		Yes	trash	N	NR	VD	NR	NR
CHR00D	W2089	8/17/09	11:20	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		Yes	trash, light trash	N	NR	D	NR	NR
CHR00D	W2089	8/31/09	11:20	Flowing	N	Slightly Turbid	Brownish	Yes	oily sheens, thin oily sheen	No		N	NR	NR	S	NR
CHR00D	W2089	9/21/09	11:51	Flowing	N	Clear	Light Yellow/Tan	No		Yes	Trash	N	NR	NR	M	S
CHR01	W2051	5/5/09	13:41	Flowing	Musty (Basement)	Highly Turbid	Light Yellow/Tan	No		No		N	U	U	U	U
CHR01	W2051	6/8/09	13:14	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
CHR01	W2051	6/9/09	13:24	Flowing	N	Mly Turbid	Light Yellow/Tan	No		Yes	orange floc minimal	N	D	NR	S	S

Table 2 (continued). 2009 Field observations from MassDEP DWM surveys

												Areal Density				
Station ID	**Unique ID**	**Date**	**Time**	**Flow Status**	**Odor**	**Water Clarity**	**Color**	**Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**
CHR01	W2051	7/13/09	14:36	Flowing	N	Slightly Turbid	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
CHR01	W2051	7/14/09	13:38	Flowing	Musty (Basement)	Slightly Turbid	Dark Tan	Yes	oily sheens	Yes	trash: bike, minor amounts trash	U	U	U	U	U
CHR01	W2051	8/17/09	11:07	Flowing	N	Slightly Turbid	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
CHR01	W2051	8/18/09	12:30	Flowing	Musty (Basement)	Slightly Turbid	Light Yellow/Tan	NR		Yes	trash, minimal trash from road	U	U	U	U	U
CHR01	W2051	9/10/09	12:20	Flowing	N	Mly Turbid	Dark Tan	No		Yes	20 feet by 5 feet section of orange iron fixing bacteria along river, left bank	NR	S	NR	NR	NR
CHR01	W2051	9/21/09	12:07	Flowing	Musty (Basement)	Slightly Turbid	Light Yellow/Tan	Yes	Foam (slight)	Yes	Trash (bike, other small trash)	N	NR	NR	D	NR
CHR01	W2051	9/22/09	12:50	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		Yes	trash, M	U	U	U	U	U
CMR02	W2042	5/5/09	11:08	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	NR	NR	D
CMR02	W2042	6/9/09	11:05	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		No		N	NR	NR	D	S
CMR02	W2042	7/14/09	11:19	Flowing	N	Slightly Turbid	Dark Tan	No		No		N	U	U	U	U
CMR02	W2042	8/18/09	11:11	Flowing	N	Clear	Brownish	No		No		N	NR	M	NR	D
CMR02	W2042	9/10/09	10:53	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	NR	D	S
CMR02	W2042	9/22/09	11:30	Flowing	N	Clear	Light Yellow/Tan	No		No		N	U	U	U	D
CRB02	W2049	5/5/09	13:26	Flowing	Raw sewage	Highly Turbid	Brownish	No		No		N	U	U	U	U
CRB02	W2049	6/8/09	12:35	Flowing	Sulfide (rotten egg) petroleum	Slightly Turbid	Clear	Not Applicable - Probe Deploy Field Sheet								
CRB02	W2049	6/9/09	13:05	Flowing	N	Slightly Turbid	Brownish	No		Yes	orange floc minimal	N	NR	NR	S	D
CRB02	W2049	7/13/09	13:55	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
CRB02	W2049	7/14/09	13:22	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	Yes	foam	No		N	NR	NR	NR	M
CRB02	W2049	8/17/09	10:45	Flowing	Musty (Basement)	Slightly Turbid	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								

Table 2 (continued). 2009 Field observations from MassDEP DWM surveys

												Areal Density				
Station ID	**Unique ID**	**Date**	**Time**	**Flow Status**	**Odor**	**Water Clarity**	**Color**	**Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**
CRB02	W2049	8/18/09	12:15	Flowing	N	Clear	NR	No		No		N	NR	NR	D	D
CRB02	W2049	9/10/09	12:04	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	NR	S	D
CRB02	W2049	9/22/09	12:30	Flowing	N	Clear	Light Yellow/Tan	No		Yes	trash	N	NR	M	NR	M
EEL01	W2040	6/11/09	13:00	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
FB01	W2027	5/5/09	10:03	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		No		N	D	NR	NR	NR
FB01	W2027	6/5/09	10:18	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
FB01	W2027	6/9/09	9:58	Flowing	N	Clear	Clear	No		No		N	NR	S	S	NR
FB01	W2027	7/10/09	9:09	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
FB01	W2027	7/14/09	9:50	Flowing	N	Clear	Clear	No		No		N	N	N	N	N
FB01	W2027	8/14/09	9:05	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
FB01	W2027	8/18/09	9:38	Flowing	N	Clear	Clear	No		No		N	NR	M	NR	NR
FB01	W2027	9/10/09	9:37	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	M	NR	NR
FB01	W2027	9/18/09	10:40	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
FB01	W2027	9/22/09	9:42	Flowing	N	Clear	Clear	No		Yes	trash, minor	N	NR	S	NR	NR
FB02	W2026	5/5/09	9:41	Flowing	Musty (Basement)	Clear	Clear	Yes	pollen/dust blankets: minimal	Yes	trash: minimal	N	D	NR	NR	NR
FB02	W2026	6/5/09	9:40	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
FB02	W2026	6/9/09	9:33	Flowing	N	Clear	Clear	No		Yes	trash: M amounts	N	NR	S	M	NR
FB02	W2026	7/10/09	8:58	Flowing	Musty (Basement)	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
FB02	W2026	7/14/09	9:34	Flowing	Musty (Basement)	Clear	Clear	No		Yes	trash: minor	N	N	N	N	N
FB02	W2026	8/14/09	8:45	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
FB02	W2026	8/18/09	9:26	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	NR	S	NR
FB02	W2026	9/10/09	9:31	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	S	NR	NR
FB02	W2026	9/18/09	10:19	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
FB02	W2026	9/22/09	9:32	Flowing	N	Clear	Light Yellow/Tan	No		Yes	trash, minor	N	NR	S	NR	NR

Table 2 (continued). 2009 Field observations from MassDEP DWM surveys

												Areal Density				
Station ID	**Unique ID**	**Date**	**Time**	**Flow Status**	**Odor**	**Water Clarity**	**Color**	**Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**
FR01	W2053	5/5/09	13:13	Flowing	Musty (Basement)	Highly Turbid	Light Yellow/Tan	No		No		N	U	U	U	U
FR01	W2053	6/9/09	12:50	Flowing	N	Clear	Light Yellow/Tan	No		Yes	trash: minimal	N	NR	M	S	S
FR01	W2053	6/11/09	15:55	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
FR01	W2053	7/14/09	13:10	Flowing	N	Slightly Turbid	Light Yellow/Tan	Yes	foam: natural	No		N	NR	NR	D	D
FR01	W2053	8/18/09	12:04	Flowing	N	Clear	Light Yellow/Tan	Yes	foam natural	No		N	NR	NR	NR	D
FR01	W2053	9/10/09	11:52	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	M	NR	M
FR01	W2053	9/22/09	12:25	Flowing	N	Clear	Clear	No		No		N	NR	S	NR	M
MLB01	W2050	5/5/09	14:00	Flowing	N	Highly Turbid	Brownish	No		No		N	S	NR	NR	S
MLB01	W2050	6/5/09	16:34	Flowing	N	Clear	Reddish	Not Applicable - Probe Deploy Field Sheet								
MLB01	W2050	6/9/09	13:38	Flowing	Musty (Basement)	Slightly Turbid	Reddish	No		No		N	S	NR	S	NR
MLB01	W2050	6/11/09	16:25	Flowing	N	Clear	Reddish	Not Applicable - Probe Deploy Field Sheet								
MLB01	W2050	7/10/09	13:00	Flowing	N	Clear	Reddish	Not Applicable - Probe Deploy Field Sheet								
MLB01	W2050	7/14/09	13:52	Flowing	N	Clear	Brownish	Yes	foam: huge foam mat (5 feet wide by 5 feet long)	Yes	other: foam	N	NR	S	NR	S
MLB01	W2050	8/14/09	13:16	Flowing	N	U	Reddish	Not Applicable - Probe Deploy Field Sheet								
MLB01	W2050	8/18/09	12:41	Flowing	N	Clear	Brownish	Yes	foam natural	No		N	NR	NR	VD	NR
MLB01	W2050	9/10/09	12:29	Flowing	N	Clear	Rusty	No		Yes	trash: some trash by culvert - do not impair	N	NR	NR	M	M
MLB01	W2050	9/18/09	11:22	Flowing	N	Clear	Reddish	Not Applicable - Probe Deploy Field Sheet								
MLB01	W2050	9/22/09	13:02	Flowing	N	Clear	Reddish	No		No		N	NR	M	NR	NR
MONT02	W2030	5/5/09	11:25	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		No		N	D	NR	NR	S
MONT02	W2030	6/5/09	11:22	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
MONT02	W2030	6/9/09	11:29	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		No		N	S	NR	S	M
MONT02	W2030	7/10/09	9:49	Flowing	N	Slightly Turbid	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								

Table 2 (continued). 2009 Field observations from MassDEP DWM surveys

												Areal Density				
Station ID	**Unique ID**	**Date**	**Time**	**Flow Status**	**Odor**	**Water Clarity**	**Color**	**Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**
MONT02	W2030	7/14/09	11:22	Flowing	N	Clear	Light Yellow/Tan	Yes	foam: natural	No		S	NR	NR	NR	M
MONT02	W2030	8/14/09	9:35	Flowing	N	Slightly Turbid	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
MONT02	W2030	8/18/09	10:56	Flowing	Musty (Basement)	Clear	NR	Yes	foam natural	No		N	NR	NR	NR	D
MONT02	W2030	9/10/09	10:55	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	No		No		N	S	M	NR	D
MONT02	W2030	9/22/09	11:00	Flowing	N	Clear	Clear	Yes	foam: natural	Yes	trash: minimal	N	S	NR	NR	D
MONT03	W2031	5/5/09	11:47	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		No		N	NR	NR	NR	M
MONT03	W2031	6/5/09	12:00	Flowing	N	Slightly Turbid	Reddish	Not Applicable - Probe Deploy Field Sheet								
MONT03	W2031	6/9/09	11:48	Flowing	N	Slightly Turbid	Brownish	No		No		N	NR	NR	S	D
MONT03	W2031	7/10/09	10:07	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
MONT03	W2031	7/14/09	11:37	Flowing	Musty (Basement)	Slightly Turbid	Light Yellow/Tan	Yes	foam: natural	No		N	NR	NR	NR	S
MONT03	W2031	8/14/09	10:01	Flowing	N	Slightly Turbid	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
MONT03	W2031	8/18/09	11:07	Flowing	N	Clear	Light Yellow/Tan	Yes	foam natural	No		N	NR	NR	NR	M
MONT03	W2031	9/10/09	11:08	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	No		No		N	NR	NR	NR	M
MONT03	W2031	9/22/09	11:10	Flowing	N	Clear	NR	No		No		N	NR	D	NR	D
MR01	W2047	5/5/09	12:27	Flowing	N	Highly Turbid	Brownish	No		No		U	U	U	U	U
MR01	W2047	6/9/09	12:09	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		No		N	S	NR	S	M
MR01	W2047	7/14/09	11:53	Flowing	N	Slightly Turbid	Light Yellow/Tan	Yes	foam: very sparse foam	No		N	NR	NR	NR	M
MR01	W2047	8/18/09	11:20	Flowing	N	Clear	Clear	No		Yes	trash	N	NR	NR	NR	VD
MR01	W2047	9/10/09	11:25	Flowing	N	Slightly Turbid	Light Yellow/Tan	Yes	brown foam/scum	No		N	N	N	N	NR
MR01	W2047	9/22/09	11:25	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	No		Yes	trash, M	N	NR	S	NR	M
MR01D	W2115	9/22/09	11:35	Flowing	N	Slightly Turbid	Greyish	Not Applicable - Probe Deploy Field Sheet								
MR02	W2048	5/5/09	12:43	Flowing	N	Highly Turbid	Brownish	No		Yes	trash: minor	U	U	U	U	U

Table 2 (continued). 2009 Field observations from MassDEP DWM surveys

												Areal Density				
Station ID	**Unique ID**	**Date**	**Time**	**Flow Status**	**Odor**	**Water Clarity**	**Color**	**Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**
MR02	W2048	6/9/09	12:28	Flowing	N	Mly Turbid	Light Yellow/Tan	No		No		N	NR	S	M	S
MR02	W2048	7/14/09	12:13	Flowing	N	Clear	Reddish	No		No		N	N	N	N	N
MR02	W2048	8/18/09	11:38	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	NR	VD	S
MR02	W2048	9/10/09	11:36	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		No		N	NR	NR	M	NR
MR02	W2048	9/22/09	11:57	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		Yes	trash: M	N	NR	S	NR	S
OSWP01	W2043	5/5/09	12:35	Flowing	N	Clear	Light Yellow/Tan	No		Yes	trash: light	S	S	NR	NR	D
OSWP01	W2043	6/4/09	13:41	Flowing	NR	Clear	Clear	No		No		D	NR	NR	NR	NR
OSWP01	W2043	6/5/09	15:05	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
OSWP01	W2043	6/9/09	12:23	Flowing	N	Slightly Turbid	Light Yellow/Tan	Yes	pollen/dust blankets	Yes	trash: 1 large tire	S	NR	NR	S	S
OSWP01	W2043	6/11/09	15:00	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
OSWP01	W2043	7/6/09	12:38	Flowing	N	Clear	Clear	No		No		S	NR	NR	NR	S
OSWP01	W2043	7/10/09	11:54	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
OSWP01	W2043	7/14/09	12:43	Flowing	NR	Clear	Dark Tan	No		No		N	NR	S	NR	S
OSWP01	W2043	8/10/09	13:15	Flowing	N	Clear	Clear	No		Yes	trash, 5 foot tall tire	M	NR	S	NR	NR
OSWP01	W2043	8/14/09	12:20	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
OSWP01	W2043	8/18/09	12:35	Flowing	N	Clear	Light Yellow/Tan	No		No		M	NR	NR	M	S
OSWP01	W2043	8/31/09	12:00	Flowing	N	Clear	Light Yellow/Tan	No		Yes	trash minor	M	NR	NR	S	NR
OSWP01	W2043	9/10/09	11:50	Flowing	N	Clear	Clear	No		Yes	trash - one giant tire	D	NR	NR	D	NR
OSWP01	W2043	9/22/09	12:57	Flowing	N	Clear	Light Yellow/Tan	No		Yes	Trash (tire)	D	N	N	N	N
OSWP02	W2044	5/5/09	12:50	Flowing	N	Mly Turbid	Brownish	No		Yes	trash: M	U	U	U	U	U
OSWP02	W2044	6/9/09	12:38	Flowing	N	Clear	Light Yellow/Tan	No		Yes	orange floc: orange floc on edges	S	NR	S	D	S
OSWP02	W2044	7/14/09	12:57	Flowing	Musty (Basement)	Clear	Dark Tan	No		No		S	NR	S	NR	NR
OSWP02	W2044	8/18/09	12:50	Flowing	N	Slightly Turbid	Light Yellow/Tan	Yes	oily sheens	Yes	trash: light	M	NR	S	S	NR

Table 2 (continued). 2009 Field observations from MassDEP DWM surveys

												Areal Density				
Station ID	**Unique ID**	**Date**	**Time**	**Flow Status**	**Odor**	**Water Clarity**	**Color**	**Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**
OSWP02	W2044	9/10/09	12:05	NR	N	Clear	Light Yellow/Tan	No		No		M	NR	S	NR	S
OSWP02	W2044	9/22/09	13:19	Flowing	N	Slightly Turbid	Dark Tan	No		No		S	NR	NR	M	NR
OSWP03	W2045	5/5/09	13:03	Flowing	N	Highly Turbid	Brownish	No		Yes	trash: light	N	N	N	N	N
OSWP03	W2045	6/5/09	15:50	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
OSWP03	W2045	6/9/09	13:00	Flowing	N	Clear	Clear	No		No		N	NR	NR	NR	M
OSWP03	W2045	6/11/09	14:35	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
OSWP03	W2045	7/10/09	12:25	Flowing	N	Clear	Reddish	Not Applicable - Probe Deploy Field Sheet								
OSWP03	W2045	7/14/09	13:24	Flowing	NR	Slightly Turbid	Dark Tan	No		No		N	U	U	U	U
OSWP03	W2045	8/14/09	12:45	Flowing	Musty (Basement)	Clear	Reddish	Not Applicable - Probe Deploy Field Sheet								
OSWP03	W2045	8/18/09	13:00	Flowing	N	Clear	Light Yellow/Tan	No		Yes	trash light	N	NR	M	NR	M
OSWP03	W2045	9/10/09	12:15	Flowing	NR	Clear	Light Yellow/Tan	No		No		N	NR	NR	M	S
OSWP03	W2045	9/22/09	13:35	Flowing	N	Clear	Light Yellow/Tan	No		No		S	NR	NR	NR	D
OSWP04	W2046	5/5/09	13:09	Flowing	N	Highly Turbid	Brownish	No		Yes	trash: slight	U	U	U	U	U
OSWP04	W2046	6/9/09	13:06	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		No		M	NR	S	D	M
OSWP04	W2046	7/14/09	13:36	Flowing	NR	Clear	Rusty	No		No		D	NR	S	NR	D
OSWP04	W2046	8/18/09	13:15	Flowing	N	Clear	Light Yellow/Tan	No		No		M	NR	S	NR	NR
OSWP04	W2046	9/10/09	12:28	Flowing	Musty (Basement)	Clear	Clear	Yes	other - leaves, scum, brown organic matter	No		VD	NR	NR	D	M
OSWP04	W2046	9/22/09	13:48	Flowing	N	Clear	Light Yellow/Tan	Yes	Other (brown ogranic matter, just downstrea m, of bridge, leaf litter)	No		VD	NR	NR	NR	D

Table 2 (continued). 2009 Field observations from MassDEP DWM surveys

												Areal Density				
Station ID	**Unique ID**	**Date**	**Time**	**Flow Status**	**Odor**	**Water Clarity**	**Color**	**Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**
PLR	W2039	5/5/09	12:05	Flowing	N	Clear	Light Yellow/Tan	No		Yes	trash: light	S	U	U	U	U
PLR	W2039	6/9/09	11:54	Flowing	N	Clear	Light Yellow/Tan	Yes	pollen/dust blankets	No		S	U	U	U	U
PLR	W2039	6/11/09	13:30	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
PLR	W2039	7/14/09	12:24	Flowing	N	Clear	Dark Tan	No		No		S	U	U	U	U
PLR	W2039	8/18/09	12:00	Flowing	N	Mly Turbid	Light Yellow/Tan	No		No		S	U	U	U	U
PLR	W2039	9/10/09	11:25	Flowing	N	Clear	Light Yellow/Tan	Yes	oily sheens	No		N	NR	NR	D	NR
PLR	W2039	9/22/09	12:29	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	NR	NR	S
TB01	W2029	5/5/09	10:52	Flowing	Raw sewage musty (basement)	Mly Turbid	Light Yellow/Tan	No		No		U	NR	S	NR	NR
TB01	W2029	6/9/09	10:52	Flowing	N	Slightly Turbid	NR	No		Yes	trash: minimal	S	NR	S	M	S
TB01	W2029	7/14/09	10:18	Flowing	N	Clear	Clear	No		No		N	NR	NR	NR	M
TB01	W2029	8/18/09	10:28	Flowing	N	Clear	Light Yellow/Tan	No		NR		N	NR	D	NR	D
TB01	W2029	9/10/09	10:31	Flowing	N	Clear	Light Yellow/Tan	No		No		N	S	M	NR	NR
TB01	W2029	9/22/09	10:28	Flowing	N	Clear	Clear	No		No		N	NR	D	M	D
TB02	W2028	5/5/09	10:25	Flowing	N	U	Brownish	Yes	oily sheens, other: cigarette butts	Yes	trash: cigarette butts	U	U	U	U	U
TB02	W2028	6/9/09	10:30	Flowing	N	Clear	Light Yellow/Tan	No		Yes	trash: minimal	N	NR	S	NR	S
TB02	W2028	7/14/09	10:38	Flowing	N	Clear	Clear	Yes	foam, appears natural	No		N	NR	S	NR	NR
TB02	W2028	8/18/09	10:00	Flowing	Other (salty)	Slightly Turbid	Light Yellow/Tan	No		No		N	NR	D	NR	NR
TB02	W2028	9/10/09	10:22	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	M	NR	NR
TB02	W2028	9/22/09	10:00	Flowing	N	Clear	Clear	Yes	foam, natural	Yes	trash, minimal	N	NR	S	S	NR
UNTP01	W2038	6/11/09	14:13	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
WB02	W2032	5/5/09	9:57	Flowing	N	Slightly Turbid	Brownish	No		No		S	NR	M	NR	NR

Table 2 (continued). 2009 Field observations from MassDEP DWM surveys

												Areal Density				
Station ID	**Unique ID**	**Date**	**Time**	**Flow Status**	**Odor**	**Water Clarity**	**Color**	**Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**
WB02	W2032	6/5/09	12:45	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
WB02	W2032	6/9/09	9:33	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	No		No		N	NR	D	NR	NR
WB02	W2032	7/10/09	10:31	NR	Musty (Basement)	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
WB02	W2032	7/14/09	9:43	Flowing	N	Clear	Dark Tan	No		Yes	trash: some trash in stream-bottles, cans, etc.	N	NR	M	NR	NR
WB02	W2032	8/14/09	10:43	Flowing	N	Clear	Reddish	Not Applicable - Probe Deploy Field Sheet								
WB02	W2032	8/18/09	9:30	Flowing	Musty (Basement)	Slightly Turbid	Brownish	No		Yes	trash heavy	N	NR	S	NR	NR
WB02	W2032	9/10/09	9:45	Flowing	N	Clear	Clear	No		No		N	NR	D	NR	NR
WB02	W2032	9/22/09	9:45	Flowing	N	Clear	Light Yellow/Tan	No		Yes	Trash (1 bicycle)	N	NR	VD	NR	NR
WR01	W2033	5/5/09	10:24	Flowing	N	Clear	Light Yellow/Tan	No		Yes	trash: light	N	N	N	N	N
WR01	W2033	6/5/09	13:35	Flowing	N	Clear	Reddish	Not Applicable - Probe Deploy Field Sheet								
WR01	W2033	6/9/09	10:11	Flowing	N	Clear	Light Yellow/Tan	No		No		S	N	N	N	N
WR01	W2033	6/11/09	12:00	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
WR01	W2033	7/10/09	11:06	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
WR01	W2033	7/14/09	10:23	Flowing	NR	Clear	Dark Tan	No		No		N	U	U	U	U
WR01	W2033	8/14/09	11:15	Flowing	N	Clear	Brownish	Not Applicable - Probe Deploy Field Sheet								
WR01	W2033	8/18/09	10:25	Flowing	N	Clear	Light Yellow/Tan	No		Yes	trash light	S	NR	NR	NR	S
WR01	W2033	9/10/09	10:12	Flowing	N	Clear	Clear	No		No		N	NR	NR	M	S
WR01	W2033	9/22/09	10:17	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	Yes	Foam	No		N	N	N	N	N
WR02	W2034	5/5/09	10:35	Flowing	N	Clear	Reddish	No		No		N	NR	NR	NR	S
WR02	W2034	6/5/09	14:05	Flowing	N	Slightly Turbid	Brownish	Not Applicable - Probe Deploy Field Sheet								
WR02	W2034	6/9/09	10:29	Flowing	N	Clear	Clear	No		U		S	U	U	U	U
WR02	W2034	6/11/09	12:30	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
WR02	W2034	7/10/09	11:23	Flowing	N	Clear	Reddish									
WR02	W2034	7/14/09	10:34	Flowing	N	Clear	Dark Tan	No		No		S	NR	NR	NR	M

Table 2 (continued). 2009 Field observations from MassDEP DWM surveys

												Areal Density				
Station ID	**Unique ID**	**Date**	**Time**	**Flow Status**	**Odor**	**Water Clarity**	**Color**	**Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**
WR02	W2034	8/14/09	11:41	Flowing	N	Clear	Brownish	Not Applicable - Probe Deploy Field Sheet								
WR02	W2034	8/18/09	10:35	Flowing	N	Clear	Light Yellow/Tan	No		No		M	NR	S	NR	M
WR02	W2034	9/10/09	10:25	Flowing	N	Clear	Light Yellow/Tan	No		NR		S	NR	NR	D	NR
WR02	W2034	9/22/09	10:41	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	No		No		D	NR	NR	S	NR

Sampling Issues and Coordinator Notes

The Weymouth Back River station (WB02) was found to be subject to tidal conditions rendering this site unrepresentative of non-tidal dissolved oxygen conditions. The cigarette butts noticed floating on the surface of the water during sampling at Station TB02 on May 5th covered the stream bank to bank. Just prior to sampling on May 5th it had started to rain and the cigarette butts were being flushed from the storm drain system into the brook in amazing numbers. Dog walking and pet waste disposal was noticed near station TB02. TB02 was also found to be tidally influenced. Due to suspected tidally influenced conditions on August 18th, a water sample was collected for *Entercocci* analysis in addition to a sample being collected for *E. coli* analysis.

Some field sheet observations are qualitative and subject to the interpretation of individual sampling crew members; particularly observations of light trash and foam noted on many field sheets. These observations, though accurate, are literal interpretations of the fieldsheet categories and are not indicative of levels of objectionable deposits or foam severe enough to impair the Aesthetics Uses of the majority in these waters.

Survey Conditions

Precipitation data collected during the survey period in 2009 were downloaded from the National Oceanic and Atmospheric Administration (NOAA), National Climatic Data Center (NCDC) for the Blue Hill Observatory in East Milton, MA (NOAA 2013a). The precipitation totals on the water quality survey dates and the five days prior to the survey dates were extracted from the retrieved records. In addition, the Blue Hill Observatory weather station's monthly precipitation totals for 2009 and the monthly average of total precipitation for the period 1981 to 2010 were downloaded to determine if precipitation amounts in 2009 were above or below normal (NOAA 2013b) (Table 3).

Stream discharge data was downloaded from the United States Geological Survey (USGS) for the Old Swamp River near South Weymouth, MA, stream gage (#01105600, (Table 4; USGS 2013a). In addition, the 7Q10 for this gage station this calculated using USGS StreamStats (Table 4; USGS 2013b). The entire period of record for the gage 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 was 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 5.

Table 3. Total monthly precipitation in 2009 and monthly average precipitation for 1981 to 2010 at the Blue Hill Observatory weather station (NOAA 2013a, NOAA 2013b).

Month	Blue Hill Observatory 2009 Monthly Total Precipitation (in.)	Blue Hill Observatory Monthly Average Precipitation (1981-2010) (in.)	Blue Hill Observatory 2009 Precipitation as Percent of Monthly Average Precipitation (1981-2010)
January	4.89	4.35	112%
February	2.37	4.07	58%
March	3.55	5.58	64%
April	4.54	4.55	100%
May	3.9	4.11	95%
June	5.14	4.31	119%
July	7.63	4.02	190%
August	3.51	4.03	87%

Month	Blue Hill Observatory 2009 Monthly Total Precipitation (in)	Blue Hill Observatory Monthly Average Precipitation (1981-2010) (in.)	Blue Hill Observatory 2009 Precipitation as Percent of Monthly Average Precipitation (1981-2010)
September	3.11	4.06	77%
October	7.23	4.69	154%
November	4.46	4.76	94%
December	5.69	4.89	116%

Table 4. USGS gage station used to estimate the hydrological conditions in the Weymouth and Weir River Watershed during the 2009 DWM water quality surveys and the estimated 7Q10 flow for the gage. (USGS 2013a, USGS 2013b).

Station Name	Latitude, Longitude	Period of Record	7Q10 (cfs)	Remarks
USGS 01105600 Old Swamp River Near South Weymouth, MA	42.19037778, -70.94476778	May 1966 to present	0.16	Measured flows are prior to diversion at South Cove for municipal supply of Weymouth

Table 5. Precipitation and discharge- The precipitation totals (inches) and daily average discharge (cubic feet per second) with percent exceeded on the water quality survey dates and the five days prior to the survey dates. Percent exceeded is percent of time that the discharge was equaled or exceeded during the period of record for the stream gage. Shaded dates indicate the deployment of multi-probes and large bold dates indicate collection of water samples while italicized dates represent metals sampling dates (USGS 2013a, NOAA 2013b) (T="Trace").

	Precipitation(in)	Discharge (cfs) (% exceeded)
Date	Blue Hill Observatory, East Milton	USGS 01105600 Old Swamp River Near South Weymouth, MA
4/30/2009	T	3.7 (64%)
5/1/2009	T	3.8 (63%)
5/2/2009	0.05	4 (61%)
5/3/2009	T	3.7 (64%)
5/4/2009	0.01	3.7 (64%)
5/5/2009	0.95	12 (22%)
5/31/2009	0.03	1.6 (82%)
6/1/2009	0	1.3 (86%)
6/2/2009	T	1.3 (86%)
6/3/2009	T	1.2 (87%)
6/4/2009	T	1.1 (87%)
6/5/2009	0.05	1.2 (87%)
6/6/2009	0.01	1.4 (85%)
6/7/2009	0	1.3 (86%)
6/8/2009	0	1.1 (87%)
6/9/2009	0.1	1.2 (87%)
6/10/2009	T	1.3 (86%)

Table 5 (continued). Precipitation and discharge- The precipitation totals (inches) and daily average discharge (cubic feet per second) with percent exceeded on the water quality survey dates and the five days prior to the survey dates. Percent exceeded is percent of time that the discharge was equaled or exceeded during the period of record for the stream gage. Shaded dates indicate the deployment of multi-probes and large bold dates indicate collection of water samples while italicized dates represent metals sampling dates (USGS 2013a, NOAA 2013b) (T="Trace").

	Precipitation(in)	Discharge (cfs) (% exceeded)
Date	Blue Hill Observatory, East Milton	USGS 01105600 Old Swamp River Near South Weymouth, MA
7/1/2009	0.51	5.9 (47%)
7/2/2009	1	18 (14%)
7/3/2009	T	17 (15%)
7/4/2009	0	5.2 (52%)
7/5/2009	0	2.9 (70%)
7/6/2009	0	2.1 (77%)
7/8/2009	0.23	6.8 (41%)
7/9/2009	0	3.7 (64%)
7/10/2009	0	2.6 (73%)
7/11/2009	0.29	2 (78%)
7/12/2009	0.33	11 (25%)
7/13/2009	0	3.8 (63%)
7/14/2009	0	2.6 (73%)
7/15/2009	0	2 (78%)
8/5/2009	T	2.7 (72%)
8/6/2009	0	2.6 (73%)
8/7/2009	0	2.3 (75%)
8/8/2009	0	1.9 (79%)
8/9/2009	T	1.8 (80%)
8/10/2009	0.12	1.9 (79%)
8/12/2009	T	2.1 (77%)
8/13/2009	0.18	2.5 (74%)
8/14/2009	0	2.5 (74%)
8/15/2009	0	2 (78%)
8/16/2009	0	1.8 (80%)
8/17/2009	0	1.5 (84%)
8/18/2009	0	1.4 (85%)
8/19/2009	0	1.3 (86%)
8/26/2009	0	1.4 (85%)
8/27/2009	0	1.2 (87%)
8/28/2009	0.31	1.1 (87%)
8/29/2009	1.49	18 (14%)
8/30/2009	0	23 (10%)
8/31/2009	0	7.1 (39%)
9/5/2009	0	2.2 (76%)
9/6/2009	0	1.9 (79%)
9/7/2009	0	1.8 (80%)

Table 5 (continued). Precipitation and discharge- The precipitation totals (inches) and daily average discharge (cubic feet per second) with percent exceeded on the water quality survey dates and the five days prior to the survey dates. Percent exceeded is percent of time that the discharge was equaled or exceeded during the period of record for the stream gage. Shaded dates indicate the deployment of multi-probes and large bold dates indicate collection of water samples while italicized dates represent metals sampling dates (USGS 2013a, NOAA 2013b) (T="Trace").

	Precipitation(in)	Discharge (cfs) (% exceeded)
Date	Blue Hill Observatory, East Milton	USGS 01105600 Old Swamp River Near South Weymouth, MA
9/8/2009	0	1.8 (80%)
9/9/2009	0	1.6 (82%)
9/10/2009	0	1.5 (84%)
9/16/2009	T	3.5 (65%)
9/17/2009	0	3.1 (69%)
9/18/2009	T	2.8 (71%)
9/19/2009	0	2.4 (74%)
9/20/2009	0	2.1 (77%)
9/21/2009	0	1.9 (79%)
9/22/2009	0	1.9 (79%)

Samples collected from stations on water quality survey dates were determined to be representative of wet-weather conditions or dry weather conditions (Table 6). It is the practice of the DWM to define a "wet-weather" sample as one that was collected at a location that received at least 0.5 inches of rainfall within the 72-hours antecedent to sample collection as evidenced by a corresponding increase in stream flow.

Table 6: 2009 Weymouth and Weir Watershed water quality sampling- wet-weather sample determination
" T " = trace amount of precipitation measured, * includes the day of sampling

Survey Date	5 Days Prior Rainfall (in)	4 Days Prior Rainfall (in)	3 Days Prior Rainfall (in)	2 Days Prior Rainfall (in)	1Day Prior Rainfall (in)	Sample Date Rainfall (in)	72 hour sum* (inches)	Water Quality Station
5/5/09	T	T	0.05	T	0.01	0.95	0.96	**All** samples considered to be "wet-weather" samples
6/4/09	T	0.05	0.01	0	0	0.1	0.1	**No** samples considered to be "wet-weather" samples
6/9/09	T	0.05	0.01	0	0	0.1	0.1	**No** samples considered to be "wet-weather" samples
7/6/09	0.51	1	T	0	0	0	0	**No** samples considered to be "wet-weather" samples
7/14/09	0	0	0.29	0.33	0	0	0.33	**No** samples considered to be "wet-weather" samples
8/10/09	T	0	0	0	T	0.12	0.12	**No** samples considered to be "wet-weather" samples
8/18/09	0.18	0	0	0	0	0	0	**No** samples considered to be "wet-weather" samples
8/31/09	0	0	0.31	1.49	0	0	1.49	**All** samples considered to be "wet-weather" samples
9/10/09	0	0	0	0	0	0	0	**No** samples considered to be "wet-weather" samples
9/22/09	0	T	0	0	0	0	0	**No** samples considered to be "wet-weather" samples

Water Quality Data

All MassDEP DWM water quality data are managed and maintained in the Water Quality Data Access Database. Tables 7, 8, 9, 10, 11 and 12 below are 2009 data for the Weymouth and Weir River Watershed. Table 8 presents the geometric mean of the *E. coli* samples. The procedures used to accept, accept with qualification or censor data are based on the DWM SOP for data validation and usability (MassDEP 2012b), and are in addition to separate quality assurance activities and laboratory validation steps undertaken by the WES. Data symbols and qualifiers are listed in Appendix 1.

Table 7. 2009 MassDEP Weymouth and Weir River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers*
ACCB03	W2037	5/5/09	11:52	74-0021		Flowing	Ammonia-N	mg/L	0.05	
ACCB03	W2037	5/5/09	11:52	74-0021		Flowing	*E. coli*	CFU/100mL	190	
ACCB03	W2037	5/5/09	11:52	74-0021		Flowing	Total Nitrogen	mg/L	1.1	
ACCB03	W2037	5/5/09	11:52	74-0021		Flowing	Total Phosphorus	mg/L	0.052	
ACCB03	W2037	5/5/09	11:52	74-0021		Flowing	True Color	PCU	225	
ACCB03	W2037	5/5/09	11:52	74-0021		Flowing	Turbidity	NTU	1.8	
ACCB03	W2037	6/9/09	11:44	74-0098		Flowing	Ammonia-N	mg/L	0.09	
ACCB03	W2037	6/9/09	11:44	74-0098		Flowing	*E. coli*	CFU/100mL	110	
ACCB03	W2037	6/9/09	11:44	74-0098		Flowing	Total Nitrogen	mg/L	0.97	
ACCB03	W2037	6/9/09	11:44	74-0098		Flowing	Total Phosphorus	mg/L	0.055	
ACCB03	W2037	6/9/09	11:44	74-0098		Flowing	True Color	PCU	215	
ACCB03	W2037	6/9/09	11:44	74-0098		Flowing	Turbidity	NTU	2.7	
ACCB03	W2037	7/14/09	12:04	74-0200		Flowing	Ammonia-N	mg/L	0.05	
ACCB03	W2037	7/14/09	12:04	74-0200		Flowing	*E. coli*	CFU/100mL	60	
ACCB03	W2037	7/14/09	12:04	74-0200		Flowing	Total Nitrogen	mg/L	1.0	
ACCB03	W2037	7/14/09	12:04	74-0200		Flowing	Total Phosphorus	mg/L	0.056	
ACCB03	W2037	7/14/09	12:04	74-0200		Flowing	True Color	PCU	290	
ACCB03	W2037	7/14/09	12:04	74-0200		Flowing	Turbidity	NTU	1.3	
ACCB03	W2037	8/18/09	11:55	74-0277		Flowing	Ammonia-N	mg/L	0.14	
ACCB03	W2037	8/18/09	11:55	74-0277		Flowing	*E. coli*	CFU/100mL	90	
ACCB03	W2037	8/18/09	11:55	74-0277		Flowing	Total Nitrogen	mg/L	1.3	
ACCB03	W2037	8/18/09	11:55	74-0277		Flowing	Total Phosphorus	mg/L	0.12	
ACCB03	W2037	8/18/09	11:55	74-0277		Flowing	True Color	PCU	390	
ACCB03	W2037	8/18/09	11:55	74-0277		Flowing	Turbidity	NTU	9.2	
ACCB03	W2037	9/10/09	11:15	74-0320		Flowing	*E. coli*	CFU/100mL	200	
ACCB03	W2037	9/22/09	12:06	74-0361		Flowing	Ammonia-N	mg/L	0.07	
ACCB03	W2037	9/22/09	12:06	74-0361		Flowing	*E. coli*	CFU/100mL	160	
ACCB03	W2037	9/22/09	12:06	74-0361		Flowing	Total Nitrogen	mg/L	1.1	
ACCB03	W2037	9/22/09	12:06	74-0361		Flowing	Total Phosphorus	mg/L	0.057	
ACCB03	W2037	9/22/09	12:06	74-0361		Flowing	True Color	PCU	245	
ACCB03	W2037	9/22/09	12:06	74-0361		Flowing	Turbidity	NTU	2.0	
CHR00	W2052	6/4/09	13:11	74-0075		Flowing	Aluminum - Dissolved	µg/L	140	f
CHR00	W2052	6/4/09	13:11	74-0075		Flowing	Antimony - Dissolved	µg/L	0.52	f
CHR00	W2052	6/4/09	13:11	74-0075		Flowing	Arsenic - Dissolved	µg/L	0.76	f

Table 7 (continued). 2009 MassDEP Weymouth and Weir River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers*
CHR00	W2052	6/4/09	13:11	74-0075		Flowing	Beryllium - Dissolved	µg/L	<0.20	f
CHR00	W2052	6/4/09	13:11	74-0075		Flowing	Cadmium - Dissolved	µg/L	<0.13	f
CHR00	W2052	6/4/09	13:11	74-0075		Flowing	Calcium - Dissolved	mg/L	9.8	f
CHR00	W2052	6/4/09	13:11	74-0075		Flowing	Chromium - Dissolved	µg/L	0.42	f
CHR00	W2052	6/4/09	13:11	74-0075		Flowing	Copper - Dissolved	µg/L	3.1	f
CHR00	W2052	6/4/09	13:11	74-0075		Flowing	Hardness	mg/L as CaCO3	35	f
CHR00	W2052	6/4/09	13:11	74-0075		Flowing	Lead - Dissolved	µg/L	12	f
CHR00	W2052	6/4/09	13:11	74-0075		Flowing	Magnesium - Dissolved	mg/L	2.6	f
CHR00	W2052	6/4/09	13:11	74-0075		Flowing	Nickel - Dissolved	µg/L	1.3	f
CHR00	W2052	6/4/09	13:11	74-0075		Flowing	Selenium - Dissolved	µg/L	<2.6	f
CHR00	W2052	6/4/09	13:11	74-0075		Flowing	Silver - Dissolved	µg/L	<0.13	f
CHR00	W2052	6/4/09	13:11	74-0075		Flowing	Thallium - Dissolved	µg/L	<0.16	f
CHR00	W2052	6/4/09	13:11	74-0075		Flowing	Zinc - Dissolved	µg/L	11	f
CHR00	W2052	7/6/09	11:49	74-0132		Flowing	Aluminum - Dissolved	µg/L	210	
CHR00	W2052	7/6/09	11:49	74-0132		Flowing	Antimony - Dissolved	µg/L	0.71	
CHR00	W2052	7/6/09	11:49	74-0132		Flowing	Arsenic - Dissolved	µg/L	0.90	
CHR00	W2052	7/6/09	11:49	74-0132		Flowing	Beryllium - Dissolved	µg/L	<0.20	
CHR00	W2052	7/6/09	11:49	74-0132		Flowing	Cadmium - Dissolved	µg/L	<0.13	
CHR00	W2052	7/6/09	11:49	74-0132		Flowing	Calcium - Dissolved	mg/L	7.7	
CHR00	W2052	7/6/09	11:49	74-0132		Flowing	Chromium - Dissolved	µg/L	0.49	
CHR00	W2052	7/6/09	11:49	74-0132		Flowing	Copper - Dissolved	µg/L	5.1	b, d, j
CHR00	W2052	7/6/09	11:49	74-0132		Flowing	Hardness	mg/L as CaCO3	27	
CHR00	W2052	7/6/09	11:49	74-0132		Flowing	Lead - Dissolved	µg/L	9.8	
CHR00	W2052	7/6/09	11:49	74-0132		Flowing	Magnesium - Dissolved	mg/L	1.9	b
CHR00	W2052	7/6/09	11:49	74-0132		Flowing	Nickel - Dissolved	µg/L	1.5	
CHR00	W2052	7/6/09	11:49	74-0132		Flowing	Selenium - Dissolved	µg/L	<2.6	
CHR00	W2052	7/6/09	11:49	74-0132		Flowing	Silver - Dissolved	µg/L	<0.13	d
CHR00	W2052	7/6/09	11:49	74-0132		Flowing	Thallium - Dissolved	µg/L	<0.16	
CHR00	W2052	7/6/09	11:49	74-0132		Flowing	Zinc - Dissolved	µg/L	13	b
CHR00	W2052	8/10/09	12:30	74-0293		Flowing	Aluminum - Dissolved	µg/L	94	f
CHR00	W2052	8/10/09	12:30	74-0293		Flowing	Antimony - Dissolved	µg/L	0.75	f
CHR00	W2052	8/10/09	12:30	74-0293		Flowing	Arsenic - Dissolved	µg/L	1.2	f
CHR00	W2052	8/10/09	12:30	74-0293		Flowing	Beryllium - Dissolved	µg/L	<0.20	f
CHR00	W2052	8/10/09	12:30	74-0293		Flowing	Cadmium - Dissolved	µg/L	<0.13	f
CHR00	W2052	8/10/09	12:30	74-0293		Flowing	Calcium - Dissolved	mg/L	9.3	f
CHR00	W2052	8/10/09	12:30	74-0293		Flowing	Chromium - Dissolved	µg/L	0.42	f
CHR00	W2052	8/10/09	12:30	74-0293		Flowing	Copper - Dissolved	µg/L	3.0	f, j
CHR00	W2052	8/10/09	12:30	74-0293		Flowing	Hardness	mg/L as CaCO3	33	f
CHR00	W2052	8/10/09	12:30	74-0293		Flowing	Lead - Dissolved	µg/L	5.5	f
CHR00	W2052	8/10/09	12:30	74-0293		Flowing	Magnesium - Dissolved	mg/L	2.4	f

Table 7 (continued). 2009 MassDEP Weymouth and Weir River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers*
CHR00	W2052	8/10/09	12:30	74-0293		Flowing	Nickel - Dissolved	µg/L	1.3	f
CHR00	W2052	8/10/09	12:30	74-0293		Flowing	Selenium - Dissolved	µg/L	<2.6	f
CHR00	W2052	8/10/09	12:30	74-0293		Flowing	Silver - Dissolved	µg/L	<0.13	f
CHR00	W2052	8/10/09	12:30	74-0293		Flowing	Thallium - Dissolved	µg/L	<0.16	f
CHR00	W2052	8/10/09	12:30	74-0293		Flowing	Zinc - Dissolved	µg/L	5.2	f
CHR00	W2052	8/31/09	11:00	74-0326		Flowing	Aluminum - Dissolved	µg/L	110	
CHR00	W2052	8/31/09	11:00	74-0326		Flowing	Antimony - Dissolved	µg/L	0.61	
CHR00	W2052	8/31/09	11:00	74-0326		Flowing	Arsenic - Dissolved	µg/L	1.1	
CHR00	W2052	8/31/09	11:00	74-0326		Flowing	Beryllium - Dissolved	µg/L	<0.20	
CHR00	W2052	8/31/09	11:00	74-0326		Flowing	Cadmium - Dissolved	µg/L	<0.13	
CHR00	W2052	8/31/09	11:00	74-0326		Flowing	Calcium - Dissolved	mg/L	8.8	
CHR00	W2052	8/31/09	11:00	74-0326		Flowing	Chromium - Dissolved	µg/L	0.40	
CHR00	W2052	8/31/09	11:00	74-0326		Flowing	Copper - Dissolved	µg/L	4.9	b, j
CHR00	W2052	8/31/09	11:00	74-0326		Flowing	Hardness	mg/L as CaCO3	32	
CHR00	W2052	8/31/09	11:00	74-0326		Flowing	Lead - Dissolved	µg/L	8.7	
CHR00	W2052	8/31/09	11:00	74-0326		Flowing	Magnesium - Dissolved	mg/L	2.5	
CHR00	W2052	8/31/09	11:00	74-0326		Flowing	Nickel - Dissolved	µg/L	1.0	
CHR00	W2052	8/31/09	11:00	74-0326		Flowing	Selenium - Dissolved	µg/L	<2.6	
CHR00	W2052	8/31/09	11:00	74-0326		Flowing	Silver - Dissolved	µg/L	<0.53	
CHR00	W2052	8/31/09	11:00	74-0326		Flowing	Thallium - Dissolved	µg/L	<0.16	
CHR00	W2052	8/31/09	11:00	74-0326		Flowing	Zinc - Dissolved	µg/L	4.9	b
CHR00D	W2089	6/4/09	12:55	74-0076		Flowing	Aluminum - Dissolved	µg/L	61	f
CHR00D	W2089	6/4/09	12:55	74-0076		Flowing	Antimony - Dissolved	µg/L	0.25	f
CHR00D	W2089	6/4/09	12:55	74-0076		Flowing	Arsenic - Dissolved	µg/L	1.1	f
CHR00D	W2089	6/4/09	12:55	74-0076		Flowing	Beryllium - Dissolved	µg/L	<0.20	f
CHR00D	W2089	6/4/09	12:55	74-0076		Flowing	Cadmium - Dissolved	µg/L	<0.13	f
CHR00D	W2089	6/4/09	12:55	74-0076		Flowing	Calcium - Dissolved	mg/L	15	f
CHR00D	W2089	6/4/09	12:55	74-0076		Flowing	Chromium - Dissolved	µg/L	0.30	f
CHR00D	W2089	6/4/09	12:55	74-0076		Flowing	Copper - Dissolved	µg/L	1.7	f
CHR00D	W2089	6/4/09	12:55	74-0076		Flowing	Hardness	mg/L as CaCO3	54	f
CHR00D	W2089	6/4/09	12:55	74-0076		Flowing	Lead - Dissolved	µg/L	4.4	f
CHR00D	W2089	6/4/09	12:55	74-0076		Flowing	Magnesium - Dissolved	mg/L	3.7	f
CHR00D	W2089	6/4/09	12:55	74-0076		Flowing	Nickel - Dissolved	µg/L	1.2	f
CHR00D	W2089	6/4/09	12:55	74-0076		Flowing	Selenium - Dissolved	µg/L	<2.6	f
CHR00D	W2089	6/4/09	12:55	74-0076		Flowing	Silver - Dissolved	µg/L	<0.13	f
CHR00D	W2089	6/4/09	12:55	74-0076		Flowing	Thallium - Dissolved	µg/L	<0.16	f
CHR00D	W2089	6/4/09	12:55	74-0076		Flowing	Zinc - Dissolved	µg/L	8.1	f
CHR00D	W2089	7/6/09	12:08	74-0133	74-0134	Flowing	Aluminum - Dissolved	µg/L	110	
CHR00D	W2089	7/6/09	12:08	74-0133	74-0134	Flowing	Antimony - Dissolved	µg/L	0.54	
CHR00D	W2089	7/6/09	12:08	74-0133	74-0134	Flowing	Arsenic - Dissolved	µg/L	1.0	
CHR00D	W2089	7/6/09	12:08	74-0133	74-0134	Flowing	Beryllium - Dissolved	µg/L	<0.20	

Table 7 (continued). 2009 MassDEP Weymouth and Weir River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers*
CHR00D	W2089	7/6/09	12:08	74-0133	74-0134	Flowing	Cadmium - Dissolved	µg/L	<0.13	
CHR00D	W2089	7/6/09	12:08	74-0133	74-0134	Flowing	Calcium - Dissolved	mg/L	13	
CHR00D	W2089	7/6/09	12:08	74-0133	74-0134	Flowing	Chromium - Dissolved	µg/L	0.45	
CHR00D	W2089	7/6/09	12:08	74-0133	74-0134	Flowing	Copper - Dissolved	µg/L	##	b, d, j
CHR00D	W2089	7/6/09	12:08	74-0133	74-0134	Flowing	Hardness	mg/L as CaCO3	43	
CHR00D	W2089	7/6/09	12:08	74-0133	74-0134	Flowing	Lead - Dissolved	µg/L	5.0	
CHR00D	W2089	7/6/09	12:08	74-0133	74-0134	Flowing	Magnesium - Dissolved	mg/L	2.8	b
CHR00D	W2089	7/6/09	12:08	74-0133	74-0134	Flowing	Nickel - Dissolved	µg/L	1.5	
CHR00D	W2089	7/6/09	12:08	74-0133	74-0134	Flowing	Selenium - Dissolved	µg/L	<2.6	
CHR00D	W2089	7/6/09	12:08	74-0133	74-0134	Flowing	Silver - Dissolved	µg/L	##	d
CHR00D	W2089	7/6/09	12:08	74-0133	74-0134	Flowing	Thallium - Dissolved	µg/L	<0.16	
CHR00D	W2089	7/6/09	12:08	74-0133	74-0134	Flowing	Zinc - Dissolved	µg/L	11	b
CHR00D	W2089	8/10/09	12:50	74-0294		Flowing	Aluminum - Dissolved	µg/L	<40	f
CHR00D	W2089	8/10/09	12:50	74-0294		Flowing	Antimony - Dissolved	µg/L	0.44	f
CHR00D	W2089	8/10/09	12:50	74-0294		Flowing	Arsenic - Dissolved	µg/L	1.3	f
CHR00D	W2089	8/10/09	12:50	74-0294		Flowing	Beryllium - Dissolved	µg/L	<0.20	f
CHR00D	W2089	8/10/09	12:50	74-0294		Flowing	Cadmium - Dissolved	µg/L	<0.13	f
CHR00D	W2089	8/10/09	12:50	74-0294		Flowing	Calcium - Dissolved	mg/L	16	f
CHR00D	W2089	8/10/09	12:50	74-0294		Flowing	Chromium - Dissolved	µg/L	0.31	f
CHR00D	W2089	8/10/09	12:50	74-0294		Flowing	Copper - Dissolved	µg/L	2.1	f, j
CHR00D	W2089	8/10/09	12:50	74-0294		Flowing	Hardness	mg/L as CaCO3	56	f
CHR00D	W2089	8/10/09	12:50	74-0294		Flowing	Lead - Dissolved	µg/L	2.0	f
CHR00D	W2089	8/10/09	12:50	74-0294		Flowing	Magnesium - Dissolved	mg/L	3.7	f
CHR00D	W2089	8/10/09	12:50	74-0294		Flowing	Nickel - Dissolved	µg/L	1.4	f
CHR00D	W2089	8/10/09	12:50	74-0294		Flowing	Selenium - Dissolved	µg/L	<2.6	f
CHR00D	W2089	8/10/09	12:50	74-0294		Flowing	Silver - Dissolved	µg/L	0.42	f
CHR00D	W2089	8/10/09	12:50	74-0294		Flowing	Thallium - Dissolved	µg/L	<0.16	f
CHR00D	W2089	8/10/09	12:50	74-0294		Flowing	Zinc - Dissolved	µg/L	7.3	f
CHR00D	W2089	8/31/09	11:25	74-0327	74-0328	Flowing	Aluminum - Dissolved	µg/L	99	
CHR00D	W2089	8/31/09	11:25	74-0327	74-0328	Flowing	Antimony - Dissolved	µg/L	0.50	
CHR00D	W2089	8/31/09	11:25	74-0327	74-0328	Flowing	Arsenic - Dissolved	µg/L	1.2	
CHR00D	W2089	8/31/09	11:25	74-0327	74-0328	Flowing	Beryllium - Dissolved	µg/L	<0.20	
CHR00D	W2089	8/31/09	11:25	74-0327	74-0328	Flowing	Cadmium - Dissolved	µg/L	<0.13	
CHR00D	W2089	8/31/09	11:25	74-0327	74-0328	Flowing	Calcium - Dissolved	mg/L	11	
CHR00D	W2089	8/31/09	11:25	74-0327	74-0328	Flowing	Chromium - Dissolved	µg/L	0.45	d
CHR00D	W2089	8/31/09	11:25	74-0327	74-0328	Flowing	Copper - Dissolved	µg/L	2.4	b, d, j
CHR00D	W2089	8/31/09	11:25	74-0327	74-0328	Flowing	Hardness	mg/L as CaCO3	41	
CHR00D	W2089	8/31/09	11:25	74-0327	74-0328	Flowing	Lead - Dissolved	µg/L	8.1	
CHR00D	W2089	8/31/09	11:25	74-0327	74-0328	Flowing	Magnesium - Dissolved	mg/L	3.0	
CHR00D	W2089	8/31/09	11:25	74-0327	74-0328	Flowing	Nickel - Dissolved	µg/L	1.2	

Table 7 (continued). 2009 MassDEP Weymouth and Weir River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers*
CHR00D	W2089	8/31/09	11:25	74-0327	74-0328	Flowing	Selenium - Dissolved	µg/L	<2.6	
CHR00D	W2089	8/31/09	11:25	74-0327	74-0328	Flowing	Silver - Dissolved	µg/L	<0.53	
CHR00D	W2089	8/31/09	11:25	74-0327	74-0328	Flowing	Thallium - Dissolved	µg/L	<0.16	
CHR00D	W2089	8/31/09	11:25	74-0327	74-0328	Flowing	Zinc - Dissolved	µg/L	7.0	b
CHR01	W2051	5/5/09	13:47	74-0013		Flowing	Ammonia-N	mg/L	0.10	
CHR01	W2051	5/5/09	13:47	74-0013		Flowing	*E. coli*	CFU/100mL	1500	
CHR01	W2051	5/5/09	13:47	74-0013		Flowing	Total Nitrogen	mg/L	0.87	
CHR01	W2051	5/5/09	13:47	74-0013		Flowing	Total Phosphorus	mg/L	0.081	d
CHR01	W2051	5/5/09	13:47	74-0013		Flowing	True Color	PCU	79	
CHR01	W2051	5/5/09	13:47	74-0013		Flowing	Turbidity	NTU	15.0	
CHR01	W2051	6/9/09	13:24	74-0090		Flowing	Ammonia-N	mg/L	0.14	
CHR01	W2051	6/9/09	13:24	74-0090		Flowing	*E. coli*	CFU/100mL	270	
CHR01	W2051	6/9/09	13:24	74-0090		Flowing	Total Nitrogen	mg/L	1.1	
CHR01	W2051	6/9/09	13:24	74-0090		Flowing	Total Phosphorus	mg/L	0.062	
CHR01	W2051	6/9/09	13:24	74-0090		Flowing	True Color	PCU	81	
CHR01	W2051	6/9/09	13:24	74-0090		Flowing	Turbidity	NTU	5.4	
CHR01	W2051	7/14/09	13:42	74-0192		Flowing	Ammonia-N	mg/L	0.06	
CHR01	W2051	7/14/09	13:42	74-0192		Flowing	*E. coli*	CFU/100mL	100	
CHR01	W2051	7/14/09	13:42	74-0192		Flowing	Total Nitrogen	mg/L	1.0	
CHR01	W2051	7/14/09	13:42	74-0192		Flowing	Total Phosphorus	mg/L	0.052	
CHR01	W2051	7/14/09	13:42	74-0192		Flowing	True Color	PCU	145	
CHR01	W2051	7/14/09	13:42	74-0192		Flowing	Turbidity	NTU	4.4	
CHR01	W2051	8/18/09	12:33	74-0269		Flowing	Ammonia-N	mg/L	0.09	
CHR01	W2051	8/18/09	12:33	74-0269		Flowing	*E. coli*	CFU/100mL	440	
CHR01	W2051	8/18/09	12:33	74-0269		Flowing	Total Nitrogen	mg/L	1.1	
CHR01	W2051	8/18/09	12:33	74-0269		Flowing	Total Phosphorus	mg/L	0.077	
CHR01	W2051	8/18/09	12:33	74-0269		Flowing	True Color	PCU	80	
CHR01	W2051	8/18/09	12:33	74-0269		Flowing	Turbidity	NTU	8.8	
CHR01	W2051	9/10/09	12:20	74-0312		Flowing	*E. coli*	CFU/100mL	260	
CHR01	W2051	9/22/09	12:52	74-0353		Flowing	Ammonia-N	mg/L	0.08	
CHR01	W2051	9/22/09	12:52	74-0353		Flowing	*E. coli*	CFU/100mL	70	
CHR01	W2051	9/22/09	12:52	74-0353		Flowing	Hardness	mg/L	60	
CHR01	W2051	9/22/09	12:52	74-0353		Flowing	Total Nitrogen	mg/L	0.91	
CHR01	W2051	9/22/09	12:52	74-0353		Flowing	Total Phosphorus	mg/L	0.045	
CHR01	W2051	9/22/09	12:52	74-0353		Flowing	True Color	PCU	78	
CHR01	W2051	9/22/09	12:52	74-0353		Flowing	Turbidity	NTU	5.9	b, d
CMR02	W2042	5/5/09	11:08	74-0020		Flowing	Ammonia-N	mg/L	0.04	
CMR02	W2042	5/5/09	11:08	74-0020		Flowing	*E. coli*	CFU/100mL	30	
CMR02	W2042	5/5/09	11:08	74-0020		Flowing	Total Nitrogen	mg/L	1.1	
CMR02	W2042	5/5/09	11:08	74-0020		Flowing	Total Phosphorus	mg/L	0.035	
CMR02	W2042	5/5/09	11:08	74-0020		Flowing	True Color	PCU	58	
CMR02	W2042	5/5/09	11:08	74-0020		Flowing	Turbidity	NTU	2.0	
CMR02	W2042	6/9/09	11:12	74-0097		Flowing	Ammonia-N	mg/L	0.06	
CMR02	W2042	6/9/09	11:12	74-0097		Flowing	*E. coli*	CFU/100mL	70	

Table 7 (continued). 2009 MassDEP Weymouth and Weir River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifi-ers*
CMR02	W2042	6/9/09	11:12	74-0097		Flowing	Total Nitrogen	mg/L	1.0	
CMR02	W2042	6/9/09	11:12	74-0097		Flowing	Total Phosphorus	mg/L	0.041	
CMR02	W2042	6/9/09	11:12	74-0097		Flowing	True Color	PCU	39	
CMR02	W2042	6/9/09	11:12	74-0097		Flowing	Turbidity	NTU	1.9	
CMR02	W2042	7/14/09	11:20	74-0199		Flowing	Ammonia-N	mg/L	0.04	
CMR02	W2042	7/14/09	11:20	74-0199		Flowing	*E. coli*	CFU/100mL	140	
CMR02	W2042	7/14/09	11:20	74-0199		Flowing	Total Nitrogen	mg/L	1.0	
CMR02	W2042	7/14/09	11:20	74-0199		Flowing	Total Phosphorus	mg/L	0.040	
CMR02	W2042	8/18/09	11:15	74-0276		Flowing	Ammonia-N	mg/L	0.04	
CMR02	W2042	8/18/09	11:15	74-0276		Flowing	*E. coli*	CFU/100mL	140	
CMR02	W2042	8/18/09	11:15	74-0276		Flowing	Total Nitrogen	mg/L	0.90	
CMR02	W2042	8/18/09	11:15	74-0276		Flowing	Total Phosphorus	mg/L	0.034	
CMR02	W2042	8/18/09	11:15	74-0276		Flowing	True Color	PCU	54	
CMR02	W2042	8/18/09	11:15	74-0276		Flowing	Turbidity	NTU	0.8	
CMR02	W2042	9/10/09	10:56	74-0319		Flowing	*E. coli*	CFU/100mL	40	
CMR02	W2042	9/22/09	11:34	74-0360		Flowing	Ammonia-N	mg/L	0.04	
CMR02	W2042	9/22/09	11:34	74-0360		Flowing	*E. coli*	CFU/100mL	60	
CMR02	W2042	9/22/09	11:34	74-0360		Flowing	Total Nitrogen	mg/L	1.4	
CMR02	W2042	9/22/09	11:34	74-0360		Flowing	Total Phosphorus	mg/L	0.022	
CMR02	W2042	9/22/09	11:34	74-0360		Flowing	True Color	PCU	38	
CMR02	W2042	9/22/09	11:34	74-0360		Flowing	Turbidity	NTU	0.9	
CRB02	W2049	5/5/09	13:28	74-0012		Flowing	Ammonia-N	mg/L	0.15	
CRB02	W2049	5/5/09	13:28	74-0012		Flowing	*E. coli*	CFU/100mL	3700	
CRB02	W2049	5/5/09	13:28	74-0012		Flowing	Total Nitrogen	mg/L	1.5	
CRB02	W2049	5/5/09	13:28	74-0012		Flowing	Total Phosphorus	mg/L	0.26	d
CRB02	W2049	5/5/09	13:28	74-0012		Flowing	True Color	PCU	84	
CRB02	W2049	5/5/09	13:28	74-0012		Flowing	Turbidity	NTU	42.0	
CRB02	W2049	6/9/09	13:05	74-0089		Flowing	Ammonia-N	mg/L	0.19	
CRB02	W2049	6/9/09	13:05	74-0089		Flowing	*E. coli*	CFU/100mL	110	
CRB02	W2049	6/9/09	13:05	74-0089		Flowing	Total Nitrogen	mg/L	1.0	
CRB02	W2049	6/9/09	13:05	74-0089		Flowing	Total Phosphorus	mg/L	0.061	
CRB02	W2049	6/9/09	13:05	74-0089		Flowing	True Color	PCU	58	
CRB02	W2049	6/9/09	13:05	74-0089		Flowing	Turbidity	NTU	5.3	
CRB02	W2049	7/14/09	13:26	74-0191		Flowing	Ammonia-N	mg/L	0.04	
CRB02	W2049	7/14/09	13:26	74-0191		Flowing	*E. coli*	CFU/100mL	210	
CRB02	W2049	7/14/09	13:26	74-0191		Flowing	Total Nitrogen	mg/L	0.74	
CRB02	W2049	7/14/09	13:26	74-0191		Flowing	Total Phosphorus	mg/L	0.038	
CRB02	W2049	7/14/09	13:26	74-0191		Flowing	True Color	PCU	100	
CRB02	W2049	7/14/09	13:26	74-0191		Flowing	Turbidity	NTU	2.7	
CRB02	W2049	8/18/09	12:18	74-0268		Flowing	Ammonia-N	mg/L	<0.02	
CRB02	W2049	8/18/09	12:18	74-0268		Flowing	*E. coli*	CFU/100mL	120	
CRB02	W2049	8/18/09	12:18	74-0268		Flowing	Total Nitrogen	mg/L	0.86	
CRB02	W2049	8/18/09	12:18	74-0268		Flowing	Total Phosphorus	mg/L	0.042	
CRB02	W2049	8/18/09	12:18	74-0268		Flowing	True Color	PCU	76	

Table 7 (continued). 2009 MassDEP Weymouth and Weir River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers*
CRB02	W2049	8/18/09	12:18	74-0268		Flowing	Turbidity	NTU	5.5	
CRB02	W2049	9/10/09	12:04	74-0311		Flowing	*E. coli*	CFU/100mL	130	
CRB02	W2049	9/22/09	12:40	74-0352		Flowing	Ammonia-N	mg/L	0.03	
CRB02	W2049	9/22/09	12:40	74-0352		Flowing	*E. coli*	CFU/100mL	120	
CRB02	W2049	9/22/09	12:40	74-0352		Flowing	Total Nitrogen	mg/L	0.81	
CRB02	W2049	9/22/09	12:40	74-0352		Flowing	Total Phosphorus	mg/L	0.036	
CRB02	W2049	9/22/09	12:40	74-0352		Flowing	True Color	PCU	50	
CRB02	W2049	9/22/09	12:40	74-0352		Flowing	Turbidity	NTU	2.6	b, d
FB01	W2027	5/5/09	10:03	74-0002	74-0003	Flowing	Ammonia-N	mg/L	0.10	
FB01	W2027	5/5/09	10:03	74-0002	74-0003	Flowing	*E. coli*	CFU/100mL	140	
FB01	W2027	5/5/09	10:03	74-0002	74-0003	Flowing	Suspended Solids	mg/L	2.5	
FB01	W2027	5/5/09	10:03	74-0002	74-0003	Flowing	Total Nitrogen	mg/L	1.5	
FB01	W2027	5/5/09	10:03	74-0002	74-0003	Flowing	Total Phosphorus	mg/L	##	d
FB01	W2027	5/5/09	10:03	74-0002	74-0003	Flowing	True Color	PCU	<15	
FB01	W2027	5/5/09	10:03	74-0002	74-0003	Flowing	Turbidity	NTU	1.0	
FB01	W2027	6/9/09	9:58	74-0079	74-0080	Flowing	Ammonia-N	mg/L	0.15	
FB01	W2027	6/9/09	9:58	74-0079	74-0080	Flowing	*E. coli*	CFU/100mL	510	
FB01	W2027	6/9/09	9:58	74-0079	74-0080	Flowing	Suspended Solids	mg/L	##	d
FB01	W2027	6/9/09	9:58	74-0079	74-0080	Flowing	Total Nitrogen	mg/L	2.8	
FB01	W2027	6/9/09	9:58	74-0079	74-0080	Flowing	Total Phosphorus	mg/L	0.056	
FB01	W2027	6/9/09	9:58	74-0079	74-0080	Flowing	True Color	PCU	<15	
FB01	W2027	6/9/09	9:58	74-0079	74-0080	Flowing	Turbidity	NTU	0.9	
FB01	W2027	7/14/09	9:56	74-0181	74-0182	Flowing	Ammonia-N	mg/L	0.08	
FB01	W2027	7/14/09	9:56	74-0181	74-0182	Flowing	*E. coli*	CFU/100mL	270	
FB01	W2027	7/14/09	9:56	74-0181	74-0182	Flowing	Suspended Solids	mg/L	<1.0	
FB01	W2027	7/14/09	9:56	74-0181	74-0182	Flowing	Total Nitrogen	mg/L	1.6	
FB01	W2027	7/14/09	9:56	74-0181	74-0182	Flowing	Total Phosphorus	mg/L	0.014	
FB01	W2027	7/14/09	9:56	74-0181	74-0182	Flowing	True Color	PCU	<15	d
FB01	W2027	7/14/09	9:56	74-0181	74-0182	Flowing	Turbidity	NTU	0.7	
FB01	W2027	8/18/09	9:45	74-0258	74-0259	Flowing	Ammonia-N	mg/L	<0.02	
FB01	W2027	8/18/09	9:45	74-0258	74-0259	Flowing	*E. coli*	CFU/100mL	250	
FB01	W2027	8/18/09	9:45	74-0258	74-0259	Flowing	Suspended Solids	mg/L	<1.0	
FB01	W2027	8/18/09	9:45	74-0258	74-0259	Flowing	Total Nitrogen	mg/L	2.3	
FB01	W2027	8/18/09	9:45	74-0258	74-0259	Flowing	Total Phosphorus	mg/L	0.016	
FB01	W2027	8/18/09	9:45	74-0258	74-0259	Flowing	True Color	PCU	<15	
FB01	W2027	8/18/09	9:45	74-0258	74-0259	Flowing	Turbidity	NTU	<0.5	
FB01	W2027	9/10/09	9:37	74-0301		Flowing	*E. coli*	CFU/100mL	170	
FB01	W2027	9/22/09	9:47	74-0342	74-0343	Flowing	Ammonia-N	mg/L	0.07	
FB01	W2027	9/22/09	9:47	74-0342	74-0343	Flowing	*E. coli*	CFU/100mL	310	
FB01	W2027	9/22/09	9:47	74-0342	74-0343	Flowing	Suspended Solids	mg/L	<1.0	
FB01	W2027	9/22/09	9:47	74-0342	74-0343	Flowing	Total Nitrogen	mg/L	2.2	
FB01	W2027	9/22/09	9:47	74-0342	74-0343	Flowing	Total Phosphorus	mg/L	0.014	
FB01	W2027	9/22/09	9:47	74-0342	74-0343	Flowing	True Color	PCU	<15	
FB01	W2027	9/22/09	9:47	74-0342	74-0343	Flowing	Turbidity	NTU	##	b, d

Table 7 (continued). 2009 MassDEP Weymouth and Weir River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers*
FB02	W2026	5/5/09	9:48	74-0001		Flowing	Ammonia-N	mg/L	0.03	
FB02	W2026	5/5/09	9:48	74-0001		Flowing	*E. coli*	CFU/100mL	140	
FB02	W2026	5/5/09	9:48	74-0001		Flowing	Suspended Solids	mg/L	1.2	
FB02	W2026	5/5/09	9:48	74-0001		Flowing	Total Nitrogen	mg/L	0.49	
FB02	W2026	5/5/09	9:48	74-0001		Flowing	Total Phosphorus	mg/L	0.024	d
FB02	W2026	5/5/09	9:48	74-0001		Flowing	True Color	PCU	<15	
FB02	W2026	5/5/09	9:48	74-0001		Flowing	Turbidity	NTU	0.8	
FB02	W2026	6/9/09	9:33	74-0078		Flowing	Ammonia-N	mg/L	0.06	
FB02	W2026	6/9/09	9:33	74-0078		Flowing	*E. coli*	CFU/100mL	420	
FB02	W2026	6/9/09	9:33	74-0078		Flowing	Suspended Solids	mg/L	1.4	d
FB02	W2026	6/9/09	9:33	74-0078		Flowing	Total Nitrogen	mg/L	0.60	
FB02	W2026	6/9/09	9:33	74-0078		Flowing	Total Phosphorus	mg/L	0.012	
FB02	W2026	6/9/09	9:33	74-0078		Flowing	True Color	PCU	16	
FB02	W2026	6/9/09	9:33	74-0078		Flowing	Turbidity	NTU	0.8	
FB02	W2026	7/14/09	9:42	74-0180		Flowing	Ammonia-N	mg/L	0.03	
FB02	W2026	7/14/09	9:42	74-0180		Flowing	*E. coli*	CFU/100mL	280	
FB02	W2026	7/14/09	9:42	74-0180		Flowing	Suspended Solids	mg/L	<1.0	
FB02	W2026	7/14/09	9:42	74-0180		Flowing	Total Nitrogen	mg/L	0.46	
FB02	W2026	7/14/09	9:42	74-0180		Flowing	Total Phosphorus	mg/L	0.012	
FB02	W2026	7/14/09	9:42	74-0180		Flowing	True Color	PCU	20	
FB02	W2026	7/14/09	9:42	74-0180		Flowing	Turbidity	NTU	0.6	
FB02	W2026	8/18/09	9:30	74-0257		Flowing	Ammonia-N	mg/L	0.02	
FB02	W2026	8/18/09	9:30	74-0257		Flowing	*E. coli*	CFU/100mL	420	
FB02	W2026	8/18/09	9:30	74-0257		Flowing	Suspended Solids	mg/L	1.0	
FB02	W2026	8/18/09	9:30	74-0257		Flowing	Total Nitrogen	mg/L	0.58	
FB02	W2026	8/18/09	9:30	74-0257		Flowing	Total Phosphorus	mg/L	0.015	
FB02	W2026	8/18/09	9:30	74-0257		Flowing	True Color	PCU	16	
FB02	W2026	8/18/09	9:30	74-0257		Flowing	Turbidity	NTU	0.8	
FB02	W2026	9/10/09	9:31	74-0300		Flowing	*E. coli*	CFU/100mL	360	
FB02	W2026	9/22/09	9:35	74-0341		Flowing	Ammonia-N	mg/L	0.05	
FB02	W2026	9/22/09	9:35	74-0341		Flowing	*E. coli*	CFU/100mL	100	
FB02	W2026	9/22/09	9:35	74-0341		Flowing	Suspended Solids	mg/L	1.3	
FB02	W2026	9/22/09	9:35	74-0341		Flowing	Total Nitrogen	mg/L	0.70	
FB02	W2026	9/22/09	9:35	74-0341		Flowing	Total Phosphorus	mg/L	0.010	
FB02	W2026	9/22/09	9:35	74-0341		Flowing	True Color	PCU	<15	
FB02	W2026	9/22/09	9:35	74-0341		Flowing	Turbidity	NTU	1.2	b, d
FR01	W2053	5/5/09	13:16	74-0011		Flowing	Ammonia-N	mg/L	0.10	
FR01	W2053	5/5/09	13:16	74-0011		Flowing	*E. coli*	CFU/100mL	1500	
FR01	W2053	5/5/09	13:16	74-0011		Flowing	Total Nitrogen	mg/L	0.75	
FR01	W2053	5/5/09	13:16	74-0011		Flowing	Total Phosphorus	mg/L	0.10	d
FR01	W2053	5/5/09	13:16	74-0011		Flowing	True Color	PCU	46	
FR01	W2053	5/5/09	13:16	74-0011		Flowing	Turbidity	NTU	18.5	
FR01	W2053	6/9/09	12:50	74-0088		Flowing	Ammonia-N	mg/L	0.07	
FR01	W2053	6/9/09	12:50	74-0088		Flowing	*E. coli*	CFU/100mL	620	

Table 7 (continued). 2009 MassDEP Weymouth and Weir River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers*
FR01	W2053	6/9/09	12:50	74-0088		Flowing	Total Nitrogen	mg/L	0.47	
FR01	W2053	6/9/09	12:50	74-0088		Flowing	Total Phosphorus	mg/L	0.023	
FR01	W2053	6/9/09	12:50	74-0088		Flowing	True Color	PCU	51	
FR01	W2053	6/9/09	12:50	74-0088		Flowing	Turbidity	NTU	4.5	
FR01	W2053	7/14/09	13:11	74-0190		Flowing	Ammonia-N	mg/L	0.03	
FR01	W2053	7/14/09	13:11	74-0190		Flowing	*E. coli*	CFU/100mL	90	
FR01	W2053	7/14/09	13:11	74-0190		Flowing	Total Nitrogen	mg/L	0.55	
FR01	W2053	7/14/09	13:11	74-0190		Flowing	Total Phosphorus	mg/L	0.027	
FR01	W2053	7/14/09	13:11	74-0190		Flowing	True Color	PCU	99	
FR01	W2053	7/14/09	13:11	74-0190		Flowing	Turbidity	NTU	5.0	
FR01	W2053	8/18/09	12:08	74-0267		Flowing	Ammonia-N	mg/L	0.05	
FR01	W2053	8/18/09	12:08	74-0267		Flowing	*E. coli*	CFU/100mL	70	
FR01	W2053	8/18/09	12:08	74-0267		Flowing	Total Nitrogen	mg/L	0.46	
FR01	W2053	8/18/09	12:08	74-0267		Flowing	Total Phosphorus	mg/L	0.028	
FR01	W2053	8/18/09	12:08	74-0267		Flowing	True Color	PCU	58	
FR01	W2053	8/18/09	12:08	74-0267		Flowing	Turbidity	NTU	5.1	
FR01	W2053	9/10/09	11:52	74-0310		Flowing	*E. coli*	CFU/100mL	180	
FR01	W2053	9/22/09	12:26	74-0351		Flowing	Ammonia-N	mg/L	0.02	
FR01	W2053	9/22/09	12:26	74-0351		Flowing	*E. coli*	CFU/100mL	140	
FR01	W2053	9/22/09	12:26	74-0351		Flowing	Total Nitrogen	mg/L	0.25	
FR01	W2053	9/22/09	12:26	74-0351		Flowing	Total Phosphorus	mg/L	0.011	
FR01	W2053	9/22/09	12:26	74-0351		Flowing	True Color	PCU	21	
FR01	W2053	9/22/09	12:26	74-0351		Flowing	Turbidity	NTU	1.7	b, d
MLB01	W2050	5/5/09	14:00	74-0014		Flowing	Ammonia-N	mg/L	0.16	
MLB01	W2050	5/5/09	14:00	74-0014		Flowing	*E. coli*	CFU/100mL	3700	
MLB01	W2050	5/5/09	14:00	74-0014		Flowing	Total Nitrogen	mg/L	1.6	
MLB01	W2050	5/5/09	14:00	74-0014		Flowing	Total Phosphorus	mg/L	0.27	d
MLB01	W2050	5/5/09	14:00	74-0014		Flowing	True Color	PCU	140	
MLB01	W2050	5/5/09	14:00	74-0014		Flowing	Turbidity	NTU	73.0	
MLB01	W2050	6/9/09	13:38	74-0091		Flowing	Ammonia-N	mg/L	0.24	
MLB01	W2050	6/9/09	13:38	74-0091		Flowing	*E. coli*	CFU/100mL	330	
MLB01	W2050	6/9/09	13:38	74-0091		Flowing	Total Nitrogen	mg/L	1.3	
MLB01	W2050	6/9/09	13:38	74-0091		Flowing	Total Phosphorus	mg/L	0.078	
MLB01	W2050	6/9/09	13:38	74-0091		Flowing	True Color	PCU	280	
MLB01	W2050	6/9/09	13:38	74-0091		Flowing	Turbidity	NTU	5.9	
MLB01	W2050	7/14/09	13:55	74-0193		Flowing	Ammonia-N	mg/L	0.08	
MLB01	W2050	7/14/09	13:55	74-0193		Flowing	*E. coli*	CFU/100mL	230	
MLB01	W2050	7/14/09	13:55	74-0193		Flowing	Total Nitrogen	mg/L	1.6	
MLB01	W2050	7/14/09	13:55	74-0193		Flowing	Total Phosphorus	mg/L	0.052	
MLB01	W2050	7/14/09	13:55	74-0193		Flowing	True Color	PCU	>500	
MLB01	W2050	7/14/09	13:55	74-0193		Flowing	Turbidity	NTU	3.5	
MLB01	W2050	8/18/09	12:46	74-0270		Flowing	Ammonia-N	mg/L	0.06	
MLB01	W2050	8/18/09	12:46	74-0270		Flowing	*E. coli*	CFU/100mL	330	
MLB01	W2050	8/18/09	12:46	74-0270		Flowing	Total Nitrogen	mg/L	1.5	

Table 7 (continued). 2009 MassDEP Weymouth and Weir River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers*
MLB01	W2050	8/18/09	12:46	74-0270		Flowing	Total Phosphorus	mg/L	0.094	
MLB01	W2050	8/18/09	12:46	74-0270		Flowing	True Color	PCU	330	
MLB01	W2050	8/18/09	12:46	74-0270		Flowing	Turbidity	NTU	7.9	
MLB01	W2050	9/10/09	12:29	74-0313		Flowing	*E. coli*	CFU/100mL	340	
MLB01	W2050	9/22/09	13:04	74-0354		Flowing	Ammonia-N	mg/L	0.08	
MLB01	W2050	9/22/09	13:04	74-0354		Flowing	*E. coli*	CFU/100mL	240	
MLB01	W2050	9/22/09	13:04	74-0354		Flowing	Total Nitrogen	mg/L	1.5	
MLB01	W2050	9/22/09	13:04	74-0354		Flowing	Total Phosphorus	mg/L	0.057	
MLB01	W2050	9/22/09	13:04	74-0354		Flowing	True Color	PCU	360	
MLB01	W2050	9/22/09	13:04	74-0354		Flowing	Turbidity	NTU	6.4	b, d
MONT02	W2030	5/5/09	11:25	74-0007		Flowing	Ammonia-N	mg/L	0.07	
MONT02	W2030	5/5/09	11:25	74-0007		Flowing	*E. coli*	CFU/100mL	220	
MONT02	W2030	5/5/09	11:25	74-0007		Flowing	Total Nitrogen	mg/L	0.66	
MONT02	W2030	5/5/09	11:25	74-0007		Flowing	Total Phosphorus	mg/L	0.054	d
MONT02	W2030	5/5/09	11:25	74-0007		Flowing	True Color	PCU	56	
MONT02	W2030	5/5/09	11:25	74-0007		Flowing	Turbidity	NTU	4.5	
MONT02	W2030	6/9/09	11:29	74-0084		Flowing	Ammonia-N	mg/L	0.08	
MONT02	W2030	6/9/09	11:29	74-0084		Flowing	*E. coli*	CFU/100mL	480	
MONT02	W2030	6/9/09	11:29	74-0084		Flowing	Total Nitrogen	mg/L	0.68	
MONT02	W2030	6/9/09	11:29	74-0084		Flowing	Total Phosphorus	mg/L	0.051	
MONT02	W2030	6/9/09	11:29	74-0084		Flowing	True Color	PCU	61	
MONT02	W2030	6/9/09	11:29	74-0084		Flowing	Turbidity	NTU	5.0	
MONT02	W2030	7/14/09	11:25	74-0186		Flowing	Ammonia-N	mg/L	0.03	
MONT02	W2030	7/14/09	11:25	74-0186		Flowing	*E. coli*	CFU/100mL	430	
MONT02	W2030	7/14/09	11:25	74-0186		Flowing	Total Nitrogen	mg/L	0.55	
MONT02	W2030	7/14/09	11:25	74-0186		Flowing	Total Phosphorus	mg/L	0.036	
MONT02	W2030	7/14/09	11:25	74-0186		Flowing	True Color	PCU	82	
MONT02	W2030	7/14/09	11:25	74-0186		Flowing	Turbidity	NTU	2.7	
MONT02	W2030	8/18/09	10:59	74-0263		Flowing	Ammonia-N	mg/L	0.03	
MONT02	W2030	8/18/09	10:59	74-0263		Flowing	*E. coli*	CFU/100mL	430	
MONT02	W2030	8/18/09	10:59	74-0263		Flowing	Total Nitrogen	mg/L	0.63	
MONT02	W2030	8/18/09	10:59	74-0263		Flowing	Total Phosphorus	mg/L	0.035	
MONT02	W2030	8/18/09	10:59	74-0263		Flowing	True Color	PCU	52	
MONT02	W2030	8/18/09	10:59	74-0263		Flowing	Turbidity	NTU	2.3	
MONT02	W2030	9/10/09	10:55	74-0306		Flowing	*E. coli*	CFU/100mL	140	
MONT02	W2030	9/22/09	11:01	74-0347		Flowing	Ammonia-N	mg/L	0.05	
MONT02	W2030	9/22/09	11:01	74-0347		Flowing	*E. coli*	CFU/100mL	140	
MONT02	W2030	9/22/09	11:01	74-0347		Flowing	Total Nitrogen	mg/L	0.69	
MONT02	W2030	9/22/09	11:01	74-0347		Flowing	Total Phosphorus	mg/L	0.027	
MONT02	W2030	9/22/09	11:01	74-0347		Flowing	True Color	PCU	47	
MONT02	W2030	9/22/09	11:01	74-0347		Flowing	Turbidity	NTU	1.7	b, d
MONT03	W2031	5/5/09	11:47	74-0008		Flowing	Ammonia-N	mg/L	0.05	
MONT03	W2031	5/5/09	11:47	74-0008		Flowing	*E. coli*	CFU/100mL	110	
MONT03	W2031	5/5/09	11:47	74-0008		Flowing	Total Nitrogen	mg/L	0.50	

Table 7 (continued). 2009 MassDEP Weymouth and Weir River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers*
MONT03	W2031	5/5/09	11:47	74-0008		Flowing	Total Phosphorus	mg/L	0.027	d
MONT03	W2031	5/5/09	11:47	74-0008		Flowing	True Color	PCU	54	
MONT03	W2031	5/5/09	11:47	74-0008		Flowing	Turbidity	NTU	3.4	
MONT03	W2031	6/9/09	11:48	74-0085		Flowing	Ammonia-N	mg/L	0.08	
MONT03	W2031	6/9/09	11:48	74-0085		Flowing	*E. coli*	CFU/100mL	460	
MONT03	W2031	6/9/09	11:48	74-0085		Flowing	Total Nitrogen	mg/L	0.59	
MONT03	W2031	6/9/09	11:48	74-0085		Flowing	Total Phosphorus	mg/L	0.032	
MONT03	W2031	6/9/09	11:48	74-0085		Flowing	True Color	PCU	63	
MONT03	W2031	6/9/09	11:48	74-0085		Flowing	Turbidity	NTU	6.1	
MONT03	W2031	7/14/09	11:40	74-0187		Flowing	Ammonia-N	mg/L	0.03	
MONT03	W2031	7/14/09	11:40	74-0187		Flowing	*E. coli*	CFU/100mL	50	
MONT03	W2031	7/14/09	11:40	74-0187		Flowing	Total Nitrogen	mg/L	0.53	
MONT03	W2031	7/14/09	11:40	74-0187		Flowing	Total Phosphorus	mg/L	0.032	
MONT03	W2031	7/14/09	11:40	74-0187		Flowing	True Color	PCU	80	
MONT03	W2031	7/14/09	11:40	74-0187		Flowing	Turbidity	NTU	2.2	
MONT03	W2031	8/18/09	11:11	74-0264		Flowing	Ammonia-N	mg/L	0.04	
MONT03	W2031	8/18/09	11:11	74-0264		Flowing	*E. coli*	CFU/100mL	170	
MONT03	W2031	8/18/09	11:11	74-0264		Flowing	Total Nitrogen	mg/L	0.59	
MONT03	W2031	8/18/09	11:11	74-0264		Flowing	Total Phosphorus	mg/L	0.027	
MONT03	W2031	8/18/09	11:11	74-0264		Flowing	True Color	PCU	56	
MONT03	W2031	8/18/09	11:11	74-0264		Flowing	Turbidity	NTU	2.7	
MONT03	W2031	9/10/09	11:08	74-0307		Flowing	*E. coli*	CFU/100mL	130	
MONT03	W2031	9/22/09	11:15	74-0348		Flowing	Ammonia-N	mg/L	0.07	
MONT03	W2031	9/22/09	11:15	74-0348		Flowing	*E. coli*	CFU/100mL	230	
MONT03	W2031	9/22/09	11:15	74-0348		Flowing	Total Nitrogen	mg/L	0.64	
MONT03	W2031	9/22/09	11:15	74-0348		Flowing	Total Phosphorus	mg/L	0.025	
MONT03	W2031	9/22/09	11:15	74-0348		Flowing	True Color	PCU	51	
MONT03	W2031	9/22/09	11:15	74-0348		Flowing	Turbidity	NTU	2.7	b, d
MR01	W2047	5/5/09	12:26	74-0009		Flowing	Ammonia-N	mg/L	0.12	
MR01	W2047	5/5/09	12:26	74-0009		Flowing	*E. coli*	CFU/100mL	3600	
MR01	W2047	5/5/09	12:26	74-0009		Flowing	Total Nitrogen	mg/L	2.0	
MR01	W2047	5/5/09	12:26	74-0009		Flowing	Total Phosphorus	mg/L	0.30	d
MR01	W2047	5/5/09	12:26	74-0009		Flowing	True Color	PCU	110	
MR01	W2047	5/5/09	12:26	74-0009		Flowing	Turbidity	NTU	42.0	
MR01	W2047	6/9/09	12:09	74-0086		Flowing	Ammonia-N	mg/L	0.19	
MR01	W2047	6/9/09	12:09	74-0086		Flowing	*E. coli*	CFU/100mL	1100	
MR01	W2047	6/9/09	12:09	74-0086		Flowing	Total Nitrogen	mg/L	1.3	
MR01	W2047	6/9/09	12:09	74-0086		Flowing	Total Phosphorus	mg/L	0.085	
MR01	W2047	6/9/09	12:09	74-0086		Flowing	True Color	PCU	68	
MR01	W2047	6/9/09	12:09	74-0086		Flowing	Turbidity	NTU	11.0	
MR01	W2047	7/14/09	11:58	74-0188		Flowing	Ammonia-N	mg/L	0.05	
MR01	W2047	7/14/09	11:58	74-0188		Flowing	*E. coli*	CFU/100mL	350	
MR01	W2047	7/14/09	11:58	74-0188		Flowing	Total Nitrogen	mg/L	1.0	
MR01	W2047	7/14/09	11:58	74-0188		Flowing	Total Phosphorus	mg/L	0.076	

Table 7 (continued). 2009 MassDEP Weymouth and Weir River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers*
MR01	W2047	7/14/09	11:58	74-0188		Flowing	True Color	PCU	215	
MR01	W2047	7/14/09	11:58	74-0188		Flowing	Turbidity	NTU	5.3	
MR01	W2047	8/18/09	11:26	74-0265		Flowing	Ammonia-N	mg/L	<0.02	
MR01	W2047	8/18/09	11:26	74-0265		Flowing	*E. coli*	CFU/100mL	1000	
MR01	W2047	8/18/09	11:26	74-0265		Flowing	Total Nitrogen	mg/L	0.92	
MR01	W2047	8/18/09	11:26	74-0265		Flowing	Total Phosphorus	mg/L	0.054	
MR01	W2047	8/18/09	11:26	74-0265		Flowing	True Color	PCU	63	
MR01	W2047	8/18/09	11:26	74-0265		Flowing	Turbidity	NTU	4.3	
MR01	W2047	9/10/09	11:25	74-0308		Flowing	*E. coli*	CFU/100mL	140	
MR01	W2047	9/22/09	11:30	74-0349		Flowing	Ammonia-N	mg/L	<0.02	
MR01	W2047	9/22/09	11:30	74-0349		Flowing	*E. coli*	CFU/100mL	140	
MR01	W2047	9/22/09	11:30	74-0349		Flowing	Total Nitrogen	mg/L	0.99	
MR01	W2047	9/22/09	11:30	74-0349		Flowing	Total Phosphorus	mg/L	0.047	
MR01	W2047	9/22/09	11:30	74-0349		Flowing	True Color	PCU	77	
MR01	W2047	9/22/09	11:30	74-0349		Flowing	Turbidity	NTU	6.1	b, d
MR01D	W2115	9/22/09	11:35	74-0387		Flowing	*E. coli*	MPN/100mL	2	f
MR02	W2048	5/5/09	12:45	74-0010		Flowing	Ammonia-N	mg/L	0.12	
MR02	W2048	5/5/09	12:45	74-0010		Flowing	*E. coli*	CFU/100mL	2000	
MR02	W2048	5/5/09	12:45	74-0010		Flowing	Total Nitrogen	mg/L	1.1	
MR02	W2048	5/5/09	12:45	74-0010		Flowing	Total Phosphorus	mg/L	0.13	d
MR02	W2048	5/5/09	12:45	74-0010		Flowing	True Color	PCU	115	
MR02	W2048	5/5/09	12:45	74-0010		Flowing	Turbidity	NTU	18.5	
MR02	W2048	6/9/09	12:28	74-0087		Flowing	Ammonia-N	mg/L	0.17	
MR02	W2048	6/9/09	12:28	74-0087		Flowing	*E. coli*	CFU/100mL	700	
MR02	W2048	6/9/09	12:28	74-0087		Flowing	Total Nitrogen	mg/L	1.3	
MR02	W2048	6/9/09	12:28	74-0087		Flowing	Total Phosphorus	mg/L	0.10	
MR02	W2048	6/9/09	12:28	74-0087		Flowing	True Color	PCU	79	
MR02	W2048	6/9/09	12:28	74-0087		Flowing	Turbidity	NTU	14.0	
MR02	W2048	7/14/09	12:20	74-0189		Flowing	Ammonia-N	mg/L	0.10	
MR02	W2048	7/14/09	12:20	74-0189		Flowing	*E. coli*	CFU/100mL	190	
MR02	W2048	7/14/09	12:20	74-0189		Flowing	Total Nitrogen	mg/L	1.3	
MR02	W2048	7/14/09	12:20	74-0189		Flowing	Total Phosphorus	mg/L	0.13	
MR02	W2048	7/14/09	12:20	74-0189		Flowing	True Color	PCU	240	
MR02	W2048	7/14/09	12:20	74-0189		Flowing	Turbidity	NTU	9.6	
MR02	W2048	8/18/09	11:42	74-0266		Flowing	Ammonia-N	mg/L	0.03	
MR02	W2048	8/18/09	11:42	74-0266		Flowing	*E. coli*	CFU/100mL	310	
MR02	W2048	8/18/09	11:42	74-0266		Flowing	Total Nitrogen	mg/L	0.95	
MR02	W2048	8/18/09	11:42	74-0266		Flowing	Total Phosphorus	mg/L	0.051	
MR02	W2048	8/18/09	11:42	74-0266		Flowing	True Color	PCU	79	
MR02	W2048	8/18/09	11:42	74-0266		Flowing	Turbidity	NTU	8.3	
MR02	W2048	9/10/09	11:36	74-0309		Flowing	*E. coli*	CFU/100mL	360	
MR02	W2048	9/22/09	11:59	74-0350		Flowing	Ammonia-N	mg/L	0.06	
MR02	W2048	9/22/09	11:59	74-0350		Flowing	*E. coli*	CFU/100mL	420	
MR02	W2048	9/22/09	11:59	74-0350		Flowing	Total Nitrogen	mg/L	1.0	

Table 7 (continued). 2009 MassDEP Weymouth and Weir River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifi-ers*
MR02	W2048	9/22/09	11:59	74-0350		Flowing	Total Phosphorus	mg/L	0.056	
MR02	W2048	9/22/09	11:59	74-0350		Flowing	True Color	PCU	96	
MR02	W2048	9/22/09	11:59	74-0350		Flowing	Turbidity	NTU	10.0	b, d
OSWP01	W2043	5/5/09	12:35	74-0023		Flowing	Ammonia-N	mg/L	0.04	
OSWP01	W2043	5/5/09	12:35	74-0023		Flowing	*E. coli*	CFU/100mL	440	
OSWP01	W2043	5/5/09	12:35	74-0023		Flowing	Total Nitrogen	mg/L	0.73	
OSWP01	W2043	5/5/09	12:35	74-0023		Flowing	Total Phosphorus	mg/L	0.037	
OSWP01	W2043	5/5/09	12:35	74-0023		Flowing	True Color	PCU	55	
OSWP01	W2043	5/5/09	12:35	74-0023		Flowing	Turbidity	NTU	3.0	
OSWP01	W2043	6/4/09	13:41	74-0077		Flowing	Aluminum - Dissolved	µg/L	<40	f
OSWP01	W2043	6/4/09	13:41	74-0077		Flowing	Antimony - Dissolved	µg/L	<0.15	f
OSWP01	W2043	6/4/09	13:41	74-0077		Flowing	Arsenic - Dissolved	µg/L	<0.51	f
OSWP01	W2043	6/4/09	13:41	74-0077		Flowing	Beryllium - Dissolved	µg/L	<0.20	f
OSWP01	W2043	6/4/09	13:41	74-0077		Flowing	Cadmium - Dissolved	µg/L	<0.13	f
OSWP01	W2043	6/4/09	13:41	74-0077		Flowing	Calcium - Dissolved	mg/L	13	f
OSWP01	W2043	6/4/09	13:41	74-0077		Flowing	Chromium - Dissolved	µg/L	<0.22	f
OSWP01	W2043	6/4/09	13:41	74-0077		Flowing	Copper - Dissolved	µg/L	0.41	f
OSWP01	W2043	6/4/09	13:41	74-0077		Flowing	Hardness	mg/L as CaCO3	48	f
OSWP01	W2043	6/4/09	13:41	74-0077		Flowing	Lead - Dissolved	µg/L	0.20	f
OSWP01	W2043	6/4/09	13:41	74-0077		Flowing	Magnesium - Dissolved	mg/L	3.8	f
OSWP01	W2043	6/4/09	13:41	74-0077		Flowing	Nickel - Dissolved	µg/L	0.77	f
OSWP01	W2043	6/4/09	13:41	74-0077		Flowing	Selenium - Dissolved	µg/L	<2.6	f
OSWP01	W2043	6/4/09	13:41	74-0077		Flowing	Silver - Dissolved	µg/L	<0.13	f
OSWP01	W2043	6/4/09	13:41	74-0077		Flowing	Thallium - Dissolved	µg/L	<0.16	f
OSWP01	W2043	6/4/09	13:41	74-0077		Flowing	Zinc - Dissolved	µg/L	7.4	f
OSWP01	W2043	6/9/09	12:25	74-0100		Flowing	Ammonia-N	mg/L	0.20	
OSWP01	W2043	6/9/09	12:25	74-0100		Flowing	*E. coli*	CFU/100mL	110	
OSWP01	W2043	6/9/09	12:25	74-0100		Flowing	Total Nitrogen	mg/L	1.1	
OSWP01	W2043	6/9/09	12:25	74-0100		Flowing	Total Phosphorus	mg/L	0.065	
OSWP01	W2043	6/9/09	12:25	74-0100		Flowing	True Color	PCU	40	
OSWP01	W2043	6/9/09	12:25	74-0100		Flowing	Turbidity	NTU	8.9	
OSWP01	W2043	7/6/09	12:46	74-0136		Flowing	Aluminum - Dissolved	µg/L	<40	
OSWP01	W2043	7/6/09	12:46	74-0136		Flowing	Antimony - Dissolved	µg/L	<0.15	
OSWP01	W2043	7/6/09	12:46	74-0136		Flowing	Arsenic - Dissolved	µg/L	<0.51	
OSWP01	W2043	7/6/09	12:46	74-0136		Flowing	Beryllium - Dissolved	µg/L	<0.20	
OSWP01	W2043	7/6/09	12:46	74-0136		Flowing	Cadmium - Dissolved	µg/L	<0.13	
OSWP01	W2043	7/6/09	12:46	74-0136		Flowing	Calcium - Dissolved	mg/L	10.0	
OSWP01	W2043	7/6/09	12:46	74-0136		Flowing	Chromium - Dissolved	µg/L	<0.22	
OSWP01	W2043	7/6/09	12:46	74-0136		Flowing	Copper - Dissolved	µg/L	0.97	b, d, j
OSWP01	W2043	7/6/09	12:46	74-0136		Flowing	Hardness	mg/L as CaCO3	37	
OSWP01	W2043	7/6/09	12:46	74-0136		Flowing	Lead - Dissolved	µg/L	0.36	

Table 7 (continued). 2009 MassDEP Weymouth and Weir River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers*
OSWP01	W2043	7/6/09	12:46	74-0136		Flowing	Magnesium - Dissolved	mg/L	2.8	b
OSWP01	W2043	7/6/09	12:46	74-0136		Flowing	Nickel - Dissolved	µg/L	0.85	
OSWP01	W2043	7/6/09	12:46	74-0136		Flowing	Selenium - Dissolved	µg/L	<2.6	
OSWP01	W2043	7/6/09	12:46	74-0136		Flowing	Silver - Dissolved	µg/L	<0.13	d
OSWP01	W2043	7/6/09	12:46	74-0136		Flowing	Thallium - Dissolved	µg/L	<0.16	
OSWP01	W2043	7/6/09	12:46	74-0136		Flowing	Zinc - Dissolved	µg/L	6.1	b
OSWP01	W2043	7/14/09	12:45	74-0202		Flowing	Ammonia-N	mg/L	0.03	
OSWP01	W2043	7/14/09	12:45	74-0202		Flowing	*E. coli*	CFU/100mL	30	
OSWP01	W2043	7/14/09	12:45	74-0202		Flowing	Total Nitrogen	mg/L	0.58	
OSWP01	W2043	7/14/09	12:45	74-0202		Flowing	Total Phosphorus	mg/L	0.027	
OSWP01	W2043	7/14/09	12:45	74-0202		Flowing	True Color	PCU	49	
OSWP01	W2043	7/14/09	12:45	74-0202		Flowing	Turbidity	NTU	3.9	
OSWP01	W2043	8/10/09	13:25	74-0295		Flowing	Aluminum - Dissolved	µg/L	<40	f
OSWP01	W2043	8/10/09	13:25	74-0295		Flowing	Antimony - Dissolved	µg/L	0.15	f
OSWP01	W2043	8/10/09	13:25	74-0295		Flowing	Arsenic - Dissolved	µg/L	<0.51	f
OSWP01	W2043	8/10/09	13:25	74-0295		Flowing	Beryllium - Dissolved	µg/L	<0.20	f
OSWP01	W2043	8/10/09	13:25	74-0295		Flowing	Cadmium - Dissolved	µg/L	<0.13	f
OSWP01	W2043	8/10/09	13:25	74-0295		Flowing	Calcium - Dissolved	mg/L	12	f
OSWP01	W2043	8/10/09	13:25	74-0295		Flowing	Chromium - Dissolved	µg/L	0.23	f
OSWP01	W2043	8/10/09	13:25	74-0295		Flowing	Copper - Dissolved	µg/L	0.54	f, j
OSWP01	W2043	8/10/09	13:25	74-0295		Flowing	Hardness	mg/L as CaCO3	45	f
OSWP01	W2043	8/10/09	13:25	74-0295		Flowing	Lead - Dissolved	µg/L	<0.14	f
OSWP01	W2043	8/10/09	13:25	74-0295		Flowing	Magnesium - Dissolved	mg/L	3.4	f
OSWP01	W2043	8/10/09	13:25	74-0295		Flowing	Nickel - Dissolved	µg/L	0.76	f
OSWP01	W2043	8/10/09	13:25	74-0295		Flowing	Selenium - Dissolved	µg/L	<2.6	f
OSWP01	W2043	8/10/09	13:25	74-0295		Flowing	Silver - Dissolved	µg/L	<0.13	f
OSWP01	W2043	8/10/09	13:25	74-0295		Flowing	Thallium - Dissolved	µg/L	<0.16	f
OSWP01	W2043	8/10/09	13:25	74-0295		Flowing	Zinc - Dissolved	µg/L	4.7	f
OSWP01	W2043	8/18/09	12:40	74-0272		Flowing	Ammonia-N	mg/L	0.03	
OSWP01	W2043	8/18/09	12:40	74-0272		Flowing	*E. coli*	CFU/100mL	50	
OSWP01	W2043	8/18/09	12:40	74-0272		Flowing	Total Nitrogen	mg/L	0.60	
OSWP01	W2043	8/18/09	12:40	74-0272		Flowing	Total Phosphorus	mg/L	0.033	
OSWP01	W2043	8/18/09	12:40	74-0272		Flowing	True Color	PCU	65	
OSWP01	W2043	8/18/09	12:40	74-0272		Flowing	Turbidity	NTU	2.9	
OSWP01	W2043	8/31/09	12:10	74-0330		Flowing	Aluminum - Dissolved	µg/L	64	
OSWP01	W2043	8/31/09	12:10	74-0330		Flowing	Antimony - Dissolved	µg/L	0.23	
OSWP01	W2043	8/31/09	12:10	74-0330		Flowing	Arsenic - Dissolved	µg/L	<1.0	
OSWP01	W2043	8/31/09	12:10	74-0330		Flowing	Beryllium - Dissolved	µg/L	<0.20	
OSWP01	W2043	8/31/09	12:10	74-0330		Flowing	Cadmium - Dissolved	µg/L	<0.13	
OSWP01	W2043	8/31/09	12:10	74-0330		Flowing	Calcium - Dissolved	mg/L	9.5	
OSWP01	W2043	8/31/09	12:10	74-0330		Flowing	Chromium - Dissolved	µg/L	<0.22	

Table 7 (continued). 2009 MassDEP Weymouth and Weir River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers*
OSWP01	W2043	8/31/09	12:10	74-0330		Flowing	Copper - Dissolved	µg/L	0.85	b, j
OSWP01	W2043	8/31/09	12:10	74-0330		Flowing	Hardness	mg/L as CaCO3	35	
OSWP01	W2043	8/31/09	12:10	74-0330		Flowing	Lead - Dissolved	µg/L	0.28	
OSWP01	W2043	8/31/09	12:10	74-0330		Flowing	Magnesium - Dissolved	mg/L	2.6	
OSWP01	W2043	8/31/09	12:10	74-0330		Flowing	Nickel - Dissolved	µg/L	0.83	
OSWP01	W2043	8/31/09	12:10	74-0330		Flowing	Selenium - Dissolved	µg/L	<2.6	
OSWP01	W2043	8/31/09	12:10	74-0330		Flowing	Silver - Dissolved	µg/L	<0.53	
OSWP01	W2043	8/31/09	12:10	74-0330		Flowing	Thallium - Dissolved	µg/L	<0.16	
OSWP01	W2043	8/31/09	12:10	74-0330		Flowing	Zinc - Dissolved	µg/L	7.2	b
OSWP01	W2043	9/10/09	11:50	74-0322		Flowing	*E. coli*	CFU/100mL	80	
OSWP01	W2043	9/22/09	12:57	74-0363		Flowing	Ammonia-N	mg/L	0.03	
OSWP01	W2043	9/22/09	12:57	74-0363		Flowing	*E. coli*	CFU/100mL	70	
OSWP01	W2043	9/22/09	12:57	74-0363		Flowing	Hardness	mg/L	49	
OSWP01	W2043	9/22/09	12:57	74-0363		Flowing	Total Nitrogen	mg/L	0.59	
OSWP01	W2043	9/22/09	12:57	74-0363		Flowing	Total Phosphorus	mg/L	0.026	
OSWP01	W2043	9/22/09	12:57	74-0363		Flowing	True Color	PCU	28	
OSWP01	W2043	9/22/09	12:57	74-0363		Flowing	Turbidity	NTU	2.9	
OSWP02	W2044	5/5/09	12:52	74-0024		Flowing	Ammonia-N	mg/L	0.09	
OSWP02	W2044	5/5/09	12:52	74-0024		Flowing	*E. coli*	CFU/100mL	1200	
OSWP02	W2044	5/5/09	12:52	74-0024		Flowing	Total Nitrogen	mg/L	1.1	
OSWP02	W2044	5/5/09	12:52	74-0024		Flowing	Total Phosphorus	mg/L	0.082	
OSWP02	W2044	5/5/09	12:52	74-0024		Flowing	True Color	PCU	110	
OSWP02	W2044	5/5/09	12:52	74-0024		Flowing	Turbidity	NTU	10.0	
OSWP02	W2044	6/9/09	12:45	74-0101		Flowing	Ammonia-N	mg/L	0.11	
OSWP02	W2044	6/9/09	12:45	74-0101		Flowing	*E. coli*	CFU/100mL	1500	
OSWP02	W2044	6/9/09	12:45	74-0101		Flowing	Total Nitrogen	mg/L	1.3	
OSWP02	W2044	6/9/09	12:45	74-0101		Flowing	Total Phosphorus	mg/L	0.051	
OSWP02	W2044	6/9/09	12:45	74-0101		Flowing	True Color	PCU	82	
OSWP02	W2044	6/9/09	12:45	74-0101		Flowing	Turbidity	NTU	6.6	
OSWP02	W2044	7/14/09	13:06	74-0203		Flowing	Ammonia-N	mg/L	0.06	
OSWP02	W2044	7/14/09	13:06	74-0203		Flowing	*E. coli*	CFU/100mL	180	
OSWP02	W2044	7/14/09	13:06	74-0203		Flowing	Total Nitrogen	mg/L	0.94	
OSWP02	W2044	7/14/09	13:06	74-0203		Flowing	Total Phosphorus	mg/L	0.048	
OSWP02	W2044	7/14/09	13:06	74-0203		Flowing	True Color	PCU	175	
OSWP02	W2044	7/14/09	13:06	74-0203		Flowing	Turbidity	NTU	3.8	
OSWP02	W2044	8/18/09	12:55	74-0280		Flowing	Ammonia-N	mg/L	0.06	
OSWP02	W2044	8/18/09	12:55	74-0280		Flowing	*E. coli*	CFU/100mL	240	
OSWP02	W2044	8/18/09	12:55	74-0280		Flowing	Total Nitrogen	mg/L	0.95	
OSWP02	W2044	8/18/09	12:55	74-0280		Flowing	Total Phosphorus	mg/L	0.066	
OSWP02	W2044	8/18/09	12:55	74-0280		Flowing	True Color	PCU	115	
OSWP02	W2044	8/18/09	12:55	74-0280		Flowing	Turbidity	NTU	4.4	
OSWP02	W2044	9/10/09	12:09	74-0323		**	*E. coli*	CFU/100mL	190	
OSWP02	W2044	9/22/09	13:27	74-0364		Flowing	Ammonia-N	mg/L	0.06	

Table 7 (continued). 2009 MassDEP Weymouth and Weir River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifi-ers*
OSWP02	W2044	9/22/09	13:27	74-0364		Flowing	*E. coli*	CFU/100mL	240	
OSWP02	W2044	9/22/09	13:27	74-0364		Flowing	Total Nitrogen	mg/L	0.99	
OSWP02	W2044	9/22/09	13:27	74-0364		Flowing	Total Phosphorus	mg/L	0.043	
OSWP02	W2044	9/22/09	13:27	74-0364		Flowing	True Color	PCU	100	
OSWP02	W2044	9/22/09	13:27	74-0364		Flowing	Turbidity	NTU	4.1	
OSWP03	W2045	5/5/09	13:03	74-0025		Flowing	Ammonia-N	mg/L	0.16	
OSWP03	W2045	5/5/09	13:03	74-0025		Flowing	*E. coli*	CFU/100mL	1200	
OSWP03	W2045	5/5/09	13:03	74-0025		Flowing	Total Nitrogen	mg/L	1.9	
OSWP03	W2045	5/5/09	13:03	74-0025		Flowing	Total Phosphorus	mg/L	0.30	
OSWP03	W2045	5/5/09	13:03	74-0025		Flowing	True Color	PCU	98	
OSWP03	W2045	5/5/09	13:03	74-0025		Flowing	Turbidity	NTU	47.0	
OSWP03	W2045	6/9/09	13:02	74-0102		Flowing	Ammonia-N	mg/L	0.06	
OSWP03	W2045	6/9/09	13:02	74-0102		Flowing	*E. coli*	CFU/100mL	560	
OSWP03	W2045	6/9/09	13:02	74-0102		Flowing	Total Nitrogen	mg/L	1.3	
OSWP03	W2045	6/9/09	13:02	74-0102		Flowing	Total Phosphorus	mg/L	0.033	
OSWP03	W2045	6/9/09	13:02	74-0102		Flowing	True Color	PCU	67	
OSWP03	W2045	6/9/09	13:02	74-0102		Flowing	Turbidity	NTU	2.7	
OSWP03	W2045	7/14/09	13:24	74-0204		Flowing	Ammonia-N	mg/L	0.05	
OSWP03	W2045	7/14/09	13:24	74-0204		Flowing	*E. coli*	CFU/100mL	180	
OSWP03	W2045	7/14/09	13:24	74-0204		Flowing	Total Nitrogen	mg/L	1.0	
OSWP03	W2045	7/14/09	13:24	74-0204		Flowing	Total Phosphorus	mg/L	0.044	
OSWP03	W2045	7/14/09	13:24	74-0204		Flowing	True Color	PCU	140	
OSWP03	W2045	7/14/09	13:24	74-0204		Flowing	Turbidity	NTU	3.1	
OSWP03	W2045	8/18/09	13:05	74-0281		Flowing	Ammonia-N	mg/L	0.02	
OSWP03	W2045	8/18/09	13:05	74-0281		Flowing	*E. coli*	CFU/100mL	420	
OSWP03	W2045	8/18/09	13:05	74-0281		Flowing	Total Nitrogen	mg/L	1.1	
OSWP03	W2045	8/18/09	13:05	74-0281		Flowing	Total Phosphorus	mg/L	0.051	
OSWP03	W2045	8/18/09	13:05	74-0281		Flowing	True Color	PCU	92	
OSWP03	W2045	8/18/09	13:05	74-0281		Flowing	Turbidity	NTU	2.1	
OSWP03	W2045	9/10/09	12:18	74-0324		Flowing	*E. coli*	CFU/100mL	190	
OSWP03	W2045	9/22/09	13:35	74-0365		Flowing	Ammonia-N	mg/L	0.04	
OSWP03	W2045	9/22/09	13:35	74-0365		Flowing	*E. coli*	CFU/100mL	160	
OSWP03	W2045	9/22/09	13:35	74-0365		Flowing	Hardness	mg/L	51	
OSWP03	W2045	9/22/09	13:35	74-0365		Flowing	Total Nitrogen	mg/L	1.3	
OSWP03	W2045	9/22/09	13:35	74-0365		Flowing	Total Phosphorus	mg/L	0.052	
OSWP03	W2045	9/22/09	13:35	74-0365		Flowing	True Color	PCU	87	
OSWP03	W2045	9/22/09	13:35	74-0365		Flowing	Turbidity	NTU	2.2	
OSWP04	W2046	5/5/09	13:09	74-0026		Flowing	Ammonia-N	mg/L	0.08	
OSWP04	W2046	5/5/09	13:09	74-0026		Flowing	*E. coli*	CFU/100mL	1000	
OSWP04	W2046	5/5/09	13:09	74-0026		Flowing	Total Nitrogen	mg/L	1.1	
OSWP04	W2046	5/5/09	13:09	74-0026		Flowing	Total Phosphorus	mg/L	0.082	
OSWP04	W2046	5/5/09	13:09	74-0026		Flowing	True Color	PCU	79	
OSWP04	W2046	5/5/09	13:09	74-0026		Flowing	Turbidity	NTU	15.0	
OSWP04	W2046	6/9/09	13:12	74-0103		Flowing	Ammonia-N	mg/L	0.06	

Table 7 (continued). 2009 MassDEP Weymouth and Weir River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifi-ers*
OSWP04	W2046	6/9/09	13:12	74-0103		Flowing	*E. coli*	CFU/100mL	160	
OSWP04	W2046	6/9/09	13:12	74-0103		Flowing	Total Nitrogen	mg/L	1.2	
OSWP04	W2046	6/9/09	13:12	74-0103		Flowing	Total Phosphorus	mg/L	0.024	
OSWP04	W2046	6/9/09	13:12	74-0103		Flowing	True Color	PCU	46	
OSWP04	W2046	6/9/09	13:12	74-0103		Flowing	Turbidity	NTU	1.7	
OSWP04	W2046	7/14/09	13:37	74-0205		Flowing	Ammonia-N	mg/L	0.04	
OSWP04	W2046	7/14/09	13:37	74-0205		Flowing	*E. coli*	CFU/100mL	230	
OSWP04	W2046	7/14/09	13:37	74-0205		Flowing	Total Nitrogen	mg/L	1.0	
OSWP04	W2046	7/14/09	13:37	74-0205		Flowing	Total Phosphorus	mg/L	0.035	
OSWP04	W2046	7/14/09	13:37	74-0205		Flowing	True Color	PCU	120	
OSWP04	W2046	7/14/09	13:37	74-0205		Flowing	Turbidity	NTU	2.6	
OSWP04	W2046	8/18/09	13:22	74-0282		Flowing	Ammonia-N	mg/L	0.03	
OSWP04	W2046	8/18/09	13:22	74-0282		Flowing	*E. coli*	CFU/100mL	260	
OSWP04	W2046	8/18/09	13:22	74-0282		Flowing	Total Nitrogen	mg/L	0.99	
OSWP04	W2046	8/18/09	13:22	74-0282		Flowing	Total Phosphorus	mg/L	0.034	
OSWP04	W2046	8/18/09	13:22	74-0282		Flowing	True Color	PCU	62	
OSWP04	W2046	8/18/09	13:22	74-0282		Flowing	Turbidity	NTU	2.0	
OSWP04	W2046	9/10/09	12:30	74-0325		Flowing	*E. coli*	CFU/100mL	150	
OSWP04	W2046	9/22/09	13:53	74-0366		Flowing	Ammonia-N	mg/L	0.03	
OSWP04	W2046	9/22/09	13:53	74-0366		Flowing	*E. coli*	CFU/100mL	110	
OSWP04	W2046	9/22/09	13:53	74-0366		Flowing	Total Nitrogen	mg/L	1.0	
OSWP04	W2046	9/22/09	13:53	74-0366		Flowing	Total Phosphorus	mg/L	0.022	
OSWP04	W2046	9/22/09	13:53	74-0366		Flowing	True Color	PCU	62	
OSWP04	W2046	9/22/09	13:53	74-0366		Flowing	Turbidity	NTU	2.5	
PLR	W2039	5/5/09	12:12	74-0022		Flowing	Ammonia-N	mg/L	0.06	
PLR	W2039	5/5/09	12:12	74-0022		Flowing	*E. coli*	CFU/100mL	900	
PLR	W2039	5/5/09	12:12	74-0022		Flowing	Total Nitrogen	mg/L	1.3	
PLR	W2039	5/5/09	12:12	74-0022		Flowing	Total Phosphorus	mg/L	0.028	
PLR	W2039	5/5/09	12:12	74-0022		Flowing	True Color	PCU	40	
PLR	W2039	5/5/09	12:12	74-0022		Flowing	Turbidity	NTU	3.8	
PLR	W2039	6/9/09	11:58	74-0099		Flowing	Ammonia-N	mg/L	0.05	
PLR	W2039	6/9/09	11:58	74-0099		Flowing	*E. coli*	CFU/100mL	280	
PLR	W2039	6/9/09	11:58	74-0099		Flowing	Total Nitrogen	mg/L	1.3	
PLR	W2039	6/9/09	11:58	74-0099		Flowing	Total Phosphorus	mg/L	0.022	
PLR	W2039	6/9/09	11:58	74-0099		Flowing	True Color	PCU	19	
PLR	W2039	6/9/09	11:58	74-0099		Flowing	Turbidity	NTU	3.6	
PLR	W2039	7/14/09	12:24	74-0201		Flowing	Ammonia-N	mg/L	0.13	
PLR	W2039	7/14/09	12:24	74-0201		Flowing	*E. coli*	CFU/100mL	160	
PLR	W2039	7/14/09	12:24	74-0201		Flowing	Total Nitrogen	mg/L	2.2	
PLR	W2039	7/14/09	12:24	74-0201		Flowing	Total Phosphorus	mg/L	0.027	
PLR	W2039	7/14/09	12:24	74-0201		Flowing	True Color	PCU	46	
PLR	W2039	7/14/09	12:24	74-0201		Flowing	Turbidity	NTU	4.2	
PLR	W2039	8/18/09	12:05	74-0278		Flowing	Ammonia-N	mg/L	0.04	
PLR	W2039	8/18/09	12:05	74-0278		Flowing	*E. coli*	CFU/100mL	600	

Table 7 (continued). 2009 MassDEP Weymouth and Weir River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers*
PLR	W2039	8/18/09	12:05	74-0278		Flowing	Total Nitrogen	mg/L	1.8	
PLR	W2039	8/18/09	12:05	74-0278		Flowing	Total Phosphorus	mg/L	0.028	
PLR	W2039	8/18/09	12:05	74-0278		Flowing	True Color	PCU	45	
PLR	W2039	8/18/09	12:05	74-0278		Flowing	Turbidity	NTU	3.1	
PLR	W2039	9/10/09	11:30	74-0321		Flowing	*E. coli*	CFU/100mL	310	
PLR	W2039	9/22/09	12:26	74-0362		Flowing	Ammonia-N	mg/L	0.04	
PLR	W2039	9/22/09	12:26	74-0362		Flowing	*E. coli*	CFU/100mL	250	
PLR	W2039	9/22/09	12:26	74-0362		Flowing	Total Nitrogen	mg/L	1.4	
PLR	W2039	9/22/09	12:26	74-0362		Flowing	Total Phosphorus	mg/L	0.017	
PLR	W2039	9/22/09	12:26	74-0362		Flowing	True Color	PCU	24	
PLR	W2039	9/22/09	12:26	74-0362		Flowing	Turbidity	NTU	2.6	
TB01	W2029	5/5/09	10:52	74-0006		Flowing	*E. coli*	CFU/100mL	2200	
TB01	W2029	5/5/09	10:52	74-0006		Flowing	Suspended Solids	mg/L	30	
TB01	W2029	5/5/09	10:52	74-0006		Flowing	True Color	PCU	<30	
TB01	W2029	5/5/09	10:52	74-0006		Flowing	Turbidity	NTU	28.5	
TB01	W2029	6/9/09	10:52	74-0083		Flowing	*E. coli*	CFU/100mL	330	
TB01	W2029	6/9/09	10:52	74-0083		Flowing	Suspended Solids	mg/L	1.9	d
TB01	W2029	6/9/09	10:52	74-0083		Flowing	True Color	PCU	<15	
TB01	W2029	6/9/09	10:52	74-0083		Flowing	Turbidity	NTU	1.6	
TB01	W2029	7/14/09	10:22	74-0185		Flowing	Ammonia-N	mg/L	0.28	
TB01	W2029	7/14/09	10:22	74-0185		Flowing	*E. coli*	CFU/100mL	1600	
TB01	W2029	7/14/09	10:22	74-0185		Flowing	Suspended Solids	mg/L	<1.0	
TB01	W2029	7/14/09	10:22	74-0185		Flowing	Total Nitrogen	mg/L	1.2	
TB01	W2029	7/14/09	10:22	74-0185		Flowing	Total Phosphorus	mg/L	0.018	
TB01	W2029	7/14/09	10:22	74-0185		Flowing	True Color	PCU	<15	
TB01	W2029	7/14/09	10:22	74-0185		Flowing	Turbidity	NTU	1.7	
TB01	W2029	8/18/09	10:30	74-0262		Flowing	Ammonia-N	mg/L	0.12	
TB01	W2029	8/18/09	10:30	74-0262		Flowing	*E. coli*	CFU/100mL	520	
TB01	W2029	8/18/09	10:30	74-0262		Flowing	Suspended Solids	mg/L	1.1	
TB01	W2029	8/18/09	10:30	74-0262		Flowing	Total Nitrogen	mg/L	0.93	
TB01	W2029	8/18/09	10:30	74-0262		Flowing	Total Phosphorus	mg/L	0.013	
TB01	W2029	8/18/09	10:30	74-0262		Flowing	True Color	PCU	15	
TB01	W2029	8/18/09	10:30	74-0262		Flowing	Turbidity	NTU	1.9	
TB01	W2029	9/10/09	10:31	74-0305		Flowing	*E. coli*	CFU/100mL	650	
TB01	W2029	9/22/09	10:31	74-0346		Flowing	Ammonia-N	mg/L	0.16	
TB01	W2029	9/22/09	10:31	74-0346		Flowing	*E. coli*	CFU/100mL	380	
TB01	W2029	9/22/09	10:31	74-0346		Flowing	Suspended Solids	mg/L	<1.0	
TB01	W2029	9/22/09	10:31	74-0346		Flowing	Total Nitrogen	mg/L	1.3	
TB01	W2029	9/22/09	10:31	74-0346		Flowing	Total Phosphorus	mg/L	0.012	
TB01	W2029	9/22/09	10:31	74-0346		Flowing	True Color	PCU	<15	
TB01	W2029	9/22/09	10:31	74-0346		Flowing	Turbidity	NTU	1.5	b, d
TB02	W2028	5/5/09	10:28	74-0005		Flowing	*E. coli*	CFU/100mL	390	
TB02	W2028	5/5/09	10:28	74-0005		Flowing	Suspended Solids	mg/L	21	
TB02	W2028	5/5/09	10:28	74-0005		Flowing	True Color	PCU	<15	

Table 7 (continued). 2009 MassDEP Weymouth and Weir River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers*
TB02	W2028	5/5/09	10:28	74-0005		Flowing	Turbidity	NTU	15.0	
TB02	W2028	6/9/09	10:30	74-0082		Flowing	*E. coli*	CFU/100mL	250	
TB02	W2028	6/9/09	10:30	74-0082		Flowing	Suspended Solids	mg/L	1.1	d
TB02	W2028	6/9/09	10:30	74-0082		Flowing	True Color	PCU	<15	
TB02	W2028	6/9/09	10:30	74-0082		Flowing	Turbidity	NTU	1.5	
TB02	W2028	7/14/09	10:45	74-0184		Flowing	Ammonia-N	mg/L	0.17	
TB02	W2028	7/14/09	10:45	74-0184		Flowing	*E. coli*	CFU/100mL	540	
TB02	W2028	7/14/09	10:45	74-0184		Flowing	Suspended Solids	mg/L	<1.0	
TB02	W2028	7/14/09	10:45	74-0184		Flowing	Total Nitrogen	mg/L	1.1	
TB02	W2028	7/14/09	10:45	74-0184		Flowing	Total Phosphorus	mg/L	0.011	
TB02	W2028	7/14/09	10:45	74-0184		Flowing	True Color	PCU	<15	
TB02	W2028	7/14/09	10:45	74-0184		Flowing	Turbidity	NTU	1.3	
TB02	W2028	8/18/09	10:09	74-0261		Flowing	Ammonia-N	mg/L	0.09	t
TB02	W2028	8/18/09	10:09	74-0261		Flowing	*E. coli*	CFU/100mL	590	t
TB02	W2028	8/18/09	10:09	74-0261		Flowing	Suspended Solids	mg/L	<1.0	t
TB02	W2028	8/18/09	10:09	74-0261		Flowing	Total Nitrogen	mg/L	0.94	t
TB02	W2028	8/18/09	10:09	74-0261		Flowing	Total Phosphorus	mg/L	0.012	t
TB02	W2028	8/18/09	10:09	74-0261		Flowing	True Color	PCU	<15	t
TB02	W2028	8/18/09	10:09	74-0261		Flowing	Turbidity	NTU	1.6	t
TB02	W2028	8/18/09	10:15	74-0299		Flowing	*Enterococci*	CFU/100mL	380	t
TB02	W2028	9/10/09	10:22	74-0302	74-0304	Flowing	*E. coli*	CFU/100mL	510	
TB02	W2028	9/22/09	10:08	74-0345		Flowing	Ammonia-N	mg/L	0.14	
TB02	W2028	9/22/09	10:08	74-0345		Flowing	*E. coli*	CFU/100mL	440	
TB02	W2028	9/22/09	10:08	74-0345		Flowing	Suspended Solids	mg/L	<1.0	
TB02	W2028	9/22/09	10:08	74-0345		Flowing	Total Nitrogen	mg/L	1.2	
TB02	W2028	9/22/09	10:08	74-0345		Flowing	Total Phosphorus	mg/L	0.013	
TB02	W2028	9/22/09	10:08	74-0345		Flowing	True Color	PCU	<15	
TB02	W2028	9/22/09	10:08	74-0345		Flowing	Turbidity	NTU	1.2	b, d
WB02	W2032	5/5/09	9:57	74-0015		Flowing	Ammonia-N	mg/L	0.10	t
WB02	W2032	5/5/09	9:57	74-0015		Flowing	*E. coli*	CFU/100mL	1800	t
WB02	W2032	5/5/09	9:57	74-0015		Flowing	Total Nitrogen	mg/L	0.64	t
WB02	W2032	5/5/09	9:57	74-0015		Flowing	Total Phosphorus	mg/L	0.032	t
WB02	W2032	5/5/09	9:57	74-0015		Flowing	True Color	PCU	37	t
WB02	W2032	5/5/09	9:57	74-0015		Flowing	Turbidity	NTU	2.2	t
WB02	W2032	6/9/09	9:45	74-0092		Flowing	Ammonia-N	mg/L	0.07	t
WB02	W2032	6/9/09	9:45	74-0092		Flowing	*E. coli*	CFU/100mL	2500	t
WB02	W2032	6/9/09	9:45	74-0092		Flowing	Total Nitrogen	mg/L	0.69	t
WB02	W2032	6/9/09	9:45	74-0092		Flowing	Total Phosphorus	mg/L	0.033	t
WB02	W2032	6/9/09	9:45	74-0092		Flowing	True Color	PCU	42	t
WB02	W2032	6/9/09	9:45	74-0092		Flowing	Turbidity	NTU	1.5	t
WB02	W2032	7/14/09	9:50	74-0194		Flowing	Ammonia-N	mg/L	0.04	
WB02	W2032	7/14/09	9:50	74-0194		Flowing	*E. coli*	CFU/100mL	310	
WB02	W2032	7/14/09	9:50	74-0194		Flowing	Total Nitrogen	mg/L	0.64	
WB02	W2032	7/14/09	9:50	74-0194		Flowing	Total Phosphorus	mg/L	0.021	

Table 7 (continued). 2009 MassDEP Weymouth and Weir River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers*
WB02	W2032	7/14/09	9:50	74-0194		Flowing	True Color	PCU	54	
WB02	W2032	7/14/09	9:50	74-0194		Flowing	Turbidity	NTU	2.0	
WB02	W2032	8/18/09	9:56	74-0271		Flowing	Ammonia-N	mg/L	0.04	t
WB02	W2032	8/18/09	9:56	74-0271		Flowing	*E. coli*	CFU/100mL	720	t
WB02	W2032	8/18/09	9:56	74-0271		Flowing	Total Nitrogen	mg/L	0.66	t
WB02	W2032	8/18/09	9:56	74-0271		Flowing	Total Phosphorus	mg/L	0.032	t
WB02	W2032	8/18/09	9:56	74-0271		Flowing	True Color	PCU	73	t
WB02	W2032	8/18/09	9:56	74-0271		Flowing	Turbidity	NTU	1.4	t
WB02	W2032	9/10/09	9:50	74-0314		Flowing	*E. coli*	CFU/100mL	1700	
WB02	W2032	9/22/09	9:45	74-0355		Flowing	Ammonia-N	mg/L	0.06	
WB02	W2032	9/22/09	9:45	74-0355		Flowing	*E. coli*	CFU/100mL	1300	
WB02	W2032	9/22/09	9:45	74-0355		Flowing	Total Nitrogen	mg/L	0.68	
WB02	W2032	9/22/09	9:45	74-0355		Flowing	Total Phosphorus	mg/L	0.023	
WB02	W2032	9/22/09	9:45	74-0355		Flowing	True Color	PCU	57	
WB02	W2032	9/22/09	9:45	74-0355		Flowing	Turbidity	NTU	1.4	
WR01	W2033	5/5/09	10:24	74-0016		Flowing	Ammonia-N	mg/L	0.04	
WR01	W2033	5/5/09	10:24	74-0016		Flowing	*E. coli*	CFU/100mL	10	
WR01	W2033	5/5/09	10:24	74-0016		Flowing	Total Nitrogen	mg/L	1.1	
WR01	W2033	5/5/09	10:24	74-0016		Flowing	Total Phosphorus	mg/L	0.035	
WR01	W2033	5/5/09	10:24	74-0016		Flowing	True Color	PCU	98	
WR01	W2033	5/5/09	10:24	74-0016		Flowing	Turbidity	NTU	2.1	
WR01	W2033	6/9/09	10:19	74-0093		Flowing	Ammonia-N	mg/L	0.09	
WR01	W2033	6/9/09	10:19	74-0093		Flowing	*E. coli*	CFU/100mL	250	
WR01	W2033	6/9/09	10:19	74-0093		Flowing	Total Nitrogen	mg/L	1.2	
WR01	W2033	6/9/09	10:19	74-0093		Flowing	Total Phosphorus	mg/L	0.051	
WR01	W2033	6/9/09	10:19	74-0093		Flowing	True Color	PCU	59	
WR01	W2033	6/9/09	10:19	74-0093		Flowing	Turbidity	NTU	3.4	
WR01	W2033	7/14/09	10:23	74-0195		Flowing	Ammonia-N	mg/L	0.05	
WR01	W2033	7/14/09	10:23	74-0195		Flowing	*E. coli*	CFU/100mL	40	
WR01	W2033	7/14/09	10:23	74-0195		Flowing	Total Nitrogen	mg/L	1.2	
WR01	W2033	7/14/09	10:23	74-0195		Flowing	Total Phosphorus	mg/L	0.052	
WR01	W2033	7/14/09	10:23	74-0195		Flowing	True Color	PCU	155	
WR01	W2033	7/14/09	10:23	74-0195		Flowing	Turbidity	NTU	3.4	
WR01	W2033	8/18/09	10:25	74-0279		Flowing	Ammonia-N	mg/L	0.03	
WR01	W2033	8/18/09	10:25	74-0279		Flowing	*E. coli*	CFU/100mL	250	
WR01	W2033	8/18/09	10:25	74-0279		Flowing	Total Nitrogen	mg/L	1.1	
WR01	W2033	8/18/09	10:25	74-0279		Flowing	Total Phosphorus	mg/L	0.041	
WR01	W2033	8/18/09	10:25	74-0279		Flowing	True Color	PCU	71	
WR01	W2033	8/18/09	10:25	74-0279		Flowing	Turbidity	NTU	2.3	
WR01	W2033	9/10/09	10:15	74-0315		Flowing	*E. coli*	CFU/100mL	80	
WR01	W2033	9/22/09	10:17	74-0356		Flowing	Ammonia-N	mg/L	0.04	
WR01	W2033	9/22/09	10:17	74-0356		Flowing	*E. coli*	CFU/100mL	110	
WR01	W2033	9/22/09	10:17	74-0356		Flowing	Total Nitrogen	mg/L	1.3	
WR01	W2033	9/22/09	10:17	74-0356		Flowing	Total Phosphorus	mg/L	0.030	

Table 7 (continued). 2009 MassDEP Weymouth and Weir River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifi-ers*
WR01	W2033	9/22/09	10:17	74-0356		Flowing	True Color	PCU	86	
WR01	W2033	9/22/09	10:17	74-0356		Flowing	Turbidity	NTU	1.9	
WR02	W2034	5/5/09	10:35	74-0017	74-0018	Flowing	Ammonia-N	mg/L	0.05	
WR02	W2034	5/5/09	10:35	74-0017	74-0018	Flowing	*E. coli*	CFU/100mL	80	
WR02	W2034	5/5/09	10:35	74-0017	74-0018	Flowing	Total Nitrogen	mg/L	1.1	
WR02	W2034	5/5/09	10:35	74-0017	74-0018	Flowing	Total Phosphorus	mg/L	0.037	
WR02	W2034	5/5/09	10:35	74-0017	74-0018	Flowing	True Color	PCU	98	
WR02	W2034	5/5/09	10:35	74-0017	74-0018	Flowing	Turbidity	NTU	3.0	
WR02	W2034	6/9/09	10:35	74-0094	74-0095	Flowing	Ammonia-N	mg/L	0.10	
WR02	W2034	6/9/09	10:35	74-0094	74-0095	Flowing	*E. coli*	CFU/100mL	470	
WR02	W2034	6/9/09	10:35	74-0094	74-0095	Flowing	Total Nitrogen	mg/L	1.2	
WR02	W2034	6/9/09	10:35	74-0094	74-0095	Flowing	Total Phosphorus	mg/L	0.054	
WR02	W2034	6/9/09	10:35	74-0094	74-0095	Flowing	True Color	PCU	60	
WR02	W2034	6/9/09	10:35	74-0094	74-0095	Flowing	Turbidity	NTU	4.3	
WR02	W2034	7/14/09	10:35	74-0196	74-0197	Flowing	Ammonia-N	mg/L	0.06	
WR02	W2034	7/14/09	10:35	74-0196	74-0197	Flowing	*E. coli*	CFU/100mL	70	
WR02	W2034	7/14/09	10:35	74-0196	74-0197	Flowing	Total Nitrogen	mg/L	1.1	
WR02	W2034	7/14/09	10:35	74-0196	74-0197	Flowing	Total Phosphorus	mg/L	0.053	
WR02	W2034	7/14/09	10:35	74-0196	74-0197	Flowing	True Color	PCU	170	
WR02	W2034	7/14/09	10:35	74-0196	74-0197	Flowing	Turbidity	NTU	3.6	
WR02	W2034	8/18/09	10:48	74-0273	74-0274	Flowing	Ammonia-N	mg/L	0.04	
WR02	W2034	8/18/09	10:48	74-0273	74-0274	Flowing	*E. coli*	CFU/100mL	240	
WR02	W2034	8/18/09	10:48	74-0273	74-0274	Flowing	Total Nitrogen	mg/L	0.97	
WR02	W2034	8/18/09	10:48	74-0273	74-0274	Flowing	Total Phosphorus	mg/L	0.040	
WR02	W2034	8/18/09	10:48	74-0273	74-0274	Flowing	True Color	PCU	74	
WR02	W2034	8/18/09	10:48	74-0273	74-0274	Flowing	Turbidity	NTU	1.9	
WR02	W2034	9/10/09	10:27	74-0316	74-0317	Flowing	*E. coli*	CFU/100mL	100	
WR02	W2034	9/22/09	10:41	74-0357	74-0358	Flowing	Ammonia-N	mg/L	0.04	
WR02	W2034	9/22/09	10:41	74-0357	74-0358	Flowing	*E. coli*	CFU/100mL	100	
WR02	W2034	9/22/09	10:41	74-0357	74-0358	Flowing	Total Nitrogen	mg/L	1.2	
WR02	W2034	9/22/09	10:41	74-0357	74-0358	Flowing	Total Phosphorus	mg/L	0.030	
WR02	W2034	9/22/09	10:41	74-0357	74-0358	Flowing	True Color	PCU	91	
WR02	W2034	9/22/09	10:41	74-0357	74-0358	Flowing	Turbidity	NTU	2.1	

*See Appendix 1 for a complete list of data symbols and qualifiers

Table 8. 2009 MassDEP Weymouth and Weir River Watershed *E. coli* geometric means of samples for sites with a minimum of five samples.

*The detection limit or the upper quantification limit is generally used in the geometric mean calculation if the result was either below the detection limit or above the upper quantification limit. For Weymouth and Weir sampling, no results were below the detection limit or above the upper quantification limit. Results from duplicate samples were removed before completing the geometric mean calculation.

Station ID	Unique ID	Waterbody	# of *E. coli* Samples	Geometric Mean (CFU/100 mL)*
ACCB03	W2037	Accord Brook	6	124
CHR01	W2051	Cochato River	6	262
CMR02	W2042	Crooked Meadow River	6	68
CRB02	W2049	Cranberry Brook	6	233
FB01	W2027	Furnace Brook	6	252
FB02	W2026	Furnace Brook	6	251
FR01	W2053	Farm River	6	230
MLB01	W2050	Mary Lee Brook	6	443
MONT02	W2030	Monatiquot River	6	269
MONT03	W2031	Monatiquot River	6	153
MR01	W2047	Mill River	6	548
MR02	W2048	Mill River	6	482
OSWP01	W2043	Old Swamp River	6	86
OSWP02	W2044	Old Swamp River	6	390
OSWP03	W2045	Old Swamp River	6	340
OSWP04	W2046	Old Swamp River	6	232
PLR	W2039	Plymouth River	6	351
TB01	W2029	Town Brook	6	728
TB02	W2028	Town Brook	6	437
WB02	W2032	Weymouth Back River	6	1142
WR01	W2033	Weir River	6	78
WR02	W2034	Weir River	6	136

Table 9. 2009 MassDEP Weymouth and Weir River Watershed *in-situ* attended probe data

Station ID	Unique ID	Water Body	OWMID	Date	Time	Flow Condition	Sample Depth (meters)	Depth Qualifiers*	Temperature (deg. C)	Temperature Qualifiers*	pH (SU)	pH Qualifiers*	Specifiic Conductivity (uS/cm)	Specific Conductivity Qualifiers*	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers*	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers*	Saturation (%)	Saturation Qualifiers*
ACCB01	W2035	Accord Brook	74-0296	8/31/09	13:02	Flowing	0.5		17.5		6.1		205		131		8.6		91	
ACCB01	W2035	Accord Brook	74-0375	9/22/09	11:18	Flowing	0.2		14.5		6.6		251		161		8.9		88	
ACCB02	W2036	Accord Brook	74-0331	8/31/09	13:34	Flowing	0.3		17.5		6.0		213		136		8.6		92	
ACCB03	W2037	Accord Brook	74-0059	6/8/09	11:52	Flowing	0.0	i	17.4		6.0		360		230		2.8		30	
ACCB03	W2037	Accord Brook	74-0072	6/10/09	12:47	Flowing	0.0	i	14.7		6.0		366		234		3.7		37	
ACCB03	W2037	Accord Brook	74-0164	7/13/09	13:16	Flowing	0.2		18.1		5.9		274		175		2.6		28	
ACCB03	W2037	Accord Brook	74-0177	7/15/09	11:46	Flowing	0.1		17.4		5.9		317		203		2.3		24	
ACCB03	W2037	Accord Brook	74-0240	8/17/09	10:13	Flowing	0.1		22.0		5.9		357		229		0.7		9	
ACCB03	W2037	Accord Brook	74-0253	8/19/09	12:43	Flowing	0.2		23.6		6.0		366		234		0.8		9	
ACCB03	W2037	Accord Brook	74-0256	8/31/09	13:57	Flowing	0.3		18.0		5.7		253		162		2.2		24	
CHR00D	W2089	Cochato River	74-0104	6/8/09	13:41	Flowing	0.2		19.6		6.9		306		196		8.5		94	
CHR00D	W2089	Cochato River	74-0215	7/13/09	15:01	Flowing	0.2		22.4		7.0		243		156		8.7		##	
CHR00D	W2089	Cochato River	74-0216	7/15/09	14:23	Flowing	0.1		21.1		7.0		275		176		9.7		##	
CHR00D	W2089	Cochato River	74-0297	8/17/09	11:28	Flowing	0.1		22.6		6.6		316		202		4.3		50	
CHR00D	W2089	Cochato River	74-0384	9/21/09	11:59	Flowing	0.2		14.5		6.6		276		177		6.9		68	
CHR01	W2051	Cochato River	74-0061	6/8/09	13:21	Flowing	0.3		19.2		6.6		316		202		5.5		61	
CHR01	W2051	Cochato River	74-0074	6/10/09	15:32	Flowing	0.2		15.3		6.6		321		206		6.4		65	
CHR01	W2051	Cochato River	74-0166	7/13/09	14:43	Flowing	0.4		21.0		6.8		246		157		8.1		93	
CHR01	W2051	Cochato River	74-0179	7/15/09	14:05	Flowing	0.1		19.5		6.7		282		180		7.1		78	

Table 9 (continued). 2009 MassDEP Weymouth and Weir River Watershed *in-situ* attended probe data

Station ID	Unique ID	Water Body	OWMID	Date	Time	Flow Condition	Sample Depth (meters)	Depth Qualifiers*	Temperature (deg. C)	Temperature Qualifiers*	pH (SU)	pH Qualifiers*	Specifiic Conductivity (uS/cm)	Specific Conductivity Qualifiers*	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers*	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers*	Saturation (%)	Saturation Qualifiers*
CHR01	W2051	Cochato River	74-0242	8/17/09	11:12	Flowing	0.2		22.6		6.4		323		207		4.2		49	
CHR01	W2051	Cochato River	74-0255	8/19/09	14:48	Flowing	0.3		24.3		6.5		334		214		4.6		56	
CHR01	W2051	Cochato River	74-0383	9/21/09	12:15	Flowing	0.4		14.7		6.5		283		181		6.3		63	
CMR02	W2042	Crooked Meadow River	74-0035	5/5/09	11:16	Flowing	0.3		14.6		7.0		590		377		9.4		94	
CMR02	W2042	Crooked Meadow River	74-0109	6/9/09	11:20	Flowing	0.5		19.2		7.0		587		376		7.0		77	
CMR02	W2042	Crooked Meadow River	74-0211	7/14/09	11:30	Flowing	0.3		20.5		6.9		445		285		7.7		87	
CMR02	W2042	Crooked Meadow River	74-0288	8/18/09	11:20	Flowing	0.7		26.0		7.1		501		320		6.3		79	
CMR02	W2042	Crooked Meadow River	74-0376	9/22/09	11:38	Flowing	0.2		17.1		6.9		500		320		8.6		89	
CRB02	W2049	Cranberry Brook	74-0060	6/8/09	12:42	Flowing	0.0	i	18.0		6.9		462		296		8.8		94	
CRB02	W2049	Cranberry Brook	74-0073	6/10/09	15:09	Flowing	0.1		15.3		6.9		389		249		8.9		91	
CRB02	W2049	Cranberry Brook	74-0165	7/13/09	14:09	Flowing	0.2		19.7		6.8		252		162		8.5		94	
CRB02	W2049	Cranberry Brook	74-0178	7/15/09	13:41	Flowing	0.1		20.5		6.8		268		171		8.4		95	
CRB02	W2049	Cranberry Brook	74-0241	8/17/09	10:51	Flowing	0.1		21.8		6.8		363		232		8.5		97	
CRB02	W2049	Cranberry Brook	74-0254	8/19/09	14:22	Flowing	0.1		23.8		7.0		398		255		8.0		96	
EEL01	W2040	Eel River	74-0125	6/11/09	13:03	Flowing	--		12.7	s	--		--		--		--		--	
EEL01	W2040	Eel River	74-0386	10/1/09	11:22	Flowing	--		11.1	s	--		--		--		--		--	
FB01	W2027	Furnace Brook	74-0050	6/5/09	10:24	Flowing	0.1		13.8		7.0		752	c	481	c	9.2		90	
FB01	W2027	Furnace Brook	74-0063	6/10/09	10:03	Flowing	0.0	i	13.2		6.8		772	c	494	c	9.0		87	
FB01	W2027	Furnace Brook	74-0155	7/10/09	9:24	Flowing	0.1		15.6		7.1		674		431		9.3		94	

Table 9 (continued). 2009 MassDEP Weymouth and Weir River Watershed *in-situ* attended probe data

Station ID	Unique ID	Water Body	OWMID	Date	Time	Flow Condition	Sample Depth (meters)	Depth Qualifiers*	Temperature (deg. C)	Temperature Qualifiers*	pH (SU)	pH Qualifiers*	Specifiic Conductivity (uS/cm)	Specific Conductivity Qualifiers*	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers*	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers*	Saturation (%)	Saturation Qualifiers*
FB01	W2027	Furnace Brook	74-0168	7/15/09	9:37	Flowing	0.1		15.6		7.1		741	c	474	c	9.2		94	
FB01	W2027	Furnace Brook	74-0231	8/14/09	9:10	Flowing	0.1		16.4		7.2		732		469		9.2		95	
FB01	W2027	Furnace Brook	74-0244	8/19/09	10:07	Flowing	0.1		17.5		7.1		784		502		9.2		98	
FB01	W2027	Furnace Brook	74-0336	9/18/09	10:48	Flowing	0.2		15.0		7.3		774		495		9.3		94	
FB01	W2027	Furnace Brook	74-0339	9/21/09	10:54	Flowing	0.2		14.7		7.2		790		506		9.7		96	
FB02	W2026	Furnace Brook	74-0049	6/5/09	9:53	Flowing	0.2		15.0		6.9		654		418		8.6		86	
FB02	W2026	Furnace Brook	74-0062	6/8/09	9:58	Flowing	0.0	i	15.5		7.0		676		433		8.8		90	
FB02	W2026	Furnace Brook	74-0154	7/10/09	9:03	Flowing	0.2		16.5		7.0		569		364		9.0		92	
FB02	W2026	Furnace Brook	74-0167	7/13/09	10:09	Flowing	0.2		17.0		7.0		550		352		8.7		92	
FB02	W2026	Furnace Brook	74-0230	8/14/09	8:49	Flowing	0.1		18.3		7.1		632		405		8.5		91	
FB02	W2026	Furnace Brook	74-0243	8/17/09	8:48	Flowing	0.1		20.7		6.9		678		434		8.0		90	
FB02	W2026	Furnace Brook	74-0335	9/18/09	10:26	Flowing	0.1		15.2		7.0		673		431		9.0		91	
FB02	W2026	Furnace Brook	74-0338	9/21/09	10:32	Flowing	0.2		15.1		6.9		736		471		9.1		91	
FR01	W2053	Farm River	74-0130	6/11/09	16:00	Flowing	--		15.6	s	--		--		--		--		--	
FR01	W2053	Farm River	74-0392	10/1/09	13:52	Flowing	--		12.5	s	--		--		--		--		--	
MLB01	W2050	Mary Lee Brook	74-0058	6/5/09	16:45	Flowing	0.1		14.2		6.8		306		196		8.6		85	
MLB01	W2050	Mary Lee Brook	74-0071	6/10/09	15:57	Flowing	0.2		13.4		6.8		333		213		8.9		87	
MLB01	W2050	Mary Lee Brook	74-0131	6/11/09	16:28	Flowing	--		13.6	s	--		--		--		--		--	
MLB01	W2050	Mary Lee Brook	74-0163	7/10/09	13:07	Flowing	0.2		15.7		6.4		249		160		8.2		83	
MLB01	W2050	Mary Lee Brook	74-0176	7/15/09	14:43	Flowing	0.1		17.3		6.4		259		166		7.9		83	

Table 9 (continued). 2009 MassDEP Weymouth and Weir River Watershed *in-situ* attended probe data

Station ID	Unique ID	Water Body	OWMID	Date	Time	Flow Condition	Sample Depth (meters)	Depth Qualifiers*	Temperature (deg. C)	Temperature Qualifiers*	pH (SU)	pH Qualifiers*	Specifiic Conductivity (uS/cm)	Specific Conductivity Qualifiers*	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers*	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers*	Saturation (%)	Saturation Qualifiers*
MLB01	W2050	Mary Lee Brook	74-0239	8/14/09	13:21	Flowing	0.2		17.8		6.8		363		232		8.1		86	
MLB01	W2050	Mary Lee Brook	74-0252	8/19/09	15:10	Flowing	0.1		22.2		6.9		418		268		7.4		87	
MLB01	W2050	Mary Lee Brook	74-0337	9/18/09	11:31	Flowing	0.2		13.7		6.6		297		190		8.8		86	
MLB01	W2050	Mary Lee Brook	74-0340	9/21/09	11:39	Flowing	0.2		13.6		6.7		340		217		9.2		89	
MLB01	W2050	Mary Lee Brook	74-0372	9/22/09	13:11	Flowing	0.2		15.6		6.8		353		226		8.8		89	
MLB01	W2050	Mary Lee Brook	74-0393	10/1/09	13:30	Flowing	--		11.4	s	--		--		--		--		--	
MONT02	W2030	Monatiquot River	74-0051	6/5/09	11:36	Flowing	0.2		18.0		7.5		530		339		9.3		99	
MONT02	W2030	Monatiquot River	74-0064	6/8/09	10:40	Flowing	0.2		18.6		7.5		558		357		9.1		99	
MONT02	W2030	Monatiquot River	74-0156	7/10/09	9:56	Flowing	0.4		17.7		7.2		380		243		9.1		96	
MONT02	W2030	Monatiquot River	74-0169	7/13/09	11:34	Flowing	0.4		19.8		7.1		364		233		8.6		96	
MONT02	W2030	Monatiquot River	74-0232	8/14/09	9:42	Flowing	0.3		19.8		7.3		467		299		8.8		97	
MONT02	W2030	Monatiquot River	74-0245	8/17/09	9:17	Flowing	0.3		23.8		7.3		517		331		8.2		98	
MONT03	W2031	Monatiquot River	74-0052	6/5/09	12:07	Flowing	0.3		18.4		7.0		522		334		7.6		81	
MONT03	W2031	Monatiquot River	74-0065	6/8/09	11:02	Flowing	0.2		18.8		6.9		559		358		6.6		72	
MONT03	W2031	Monatiquot River	74-0157	7/10/09	10:13	Flowing	0.3		17.9		6.9		376		241		8.1		86	
MONT03	W2031	Monatiquot River	74-0170	7/13/09	11:59	Flowing	0.4		20.2		6.9		356		228		7.9		89	
MONT03	W2031	Monatiquot River	74-0233	8/14/09	10:07	Flowing	0.3		19.8		6.9		454		291		6.9		76	
MONT03	W2031	Monatiquot River	74-0246	8/17/09	9:37	Flowing	0.2		23.8		6.8		515		329		5.8		69	
MR01	W2047	Mill River	74-0029	5/5/09	12:32	Flowing	0.1		12.0		6.9		254	u	162	u	9.9		93	

Table 9 (continued). 2009 MassDEP Weymouth and Weir River Watershed *in-situ* attended probe data

Station ID	Unique ID	Water Body	OWMID	Date	Time	Flow Condition	Sample Depth (meters)	Depth Qualifiers*	Temperature (deg. C)	Temperature Qualifiers*	pH (SU)	pH Qualifiers*	Specifiic Conductivity (uS/cm)	Specific Conductivity Qualifiers*	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers*	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers*	Saturation (%)	Saturation Qualifiers*
MR01	W2047	Mill River	74-0106	6/9/09	12:14	Flowing	0.1		15.2		7.1		387		248		8.6		87	
MR01	W2047	Mill River	74-0208	7/14/09	12:05	Flowing	0.2		16.8		7.0		280		179		9.2		96	
MR01	W2047	Mill River	74-0285	8/18/09	11:33	Flowing	0.0	i	22.6		7.1		389		249		7.6		89	
MR01	W2047	Mill River	74-0369	9/22/09	11:38	Flowing	0.1		15.7		7.1		371		237		9.4		95	
MR02	W2048	Mill River	74-0030	5/5/09	12:55	Flowing	0.3		12.1		6.6		217		139		8.9		84	
MR02	W2048	Mill River	74-0107	6/9/09	12:32	Flowing	0.1		15.3		7.0		476	u	305	u	7.6		77	
MR02	W2048	Mill River	74-0209	7/14/09	12:27	Flowing	0.1		16.8		6.5		286		183		6.4		67	
MR02	W2048	Mill River	74-0286	8/18/09	11:52	Flowing	0.1		23.2		7.0		402		257		6.6		79	
MR02	W2048	Mill River	74-0370	9/22/09	12:06	Flowing	0.1		15.6		6.9		380		243		8.3		83	
OSWP01	W2043	Old Swamp River	74-0056	6/5/09	15:15	Flowing	0.2		14.1		6.7		328		210		6.1		60	
OSWP01	W2043	Old Swamp River	74-0069	6/10/09	13:19	Flowing	0.1		13.3		6.6		330		211		6.4		62	
OSWP01	W2043	Old Swamp River	74-0129	6/11/09	15:05	Flowing	--		13.4	s	--		--		--		--		--	
OSWP01	W2043	Old Swamp River	74-0161	7/10/09	12:01	Flowing	0.1		14.5		6.6		239		153		7.0		69	
OSWP01	W2043	Old Swamp River	74-0174	7/15/09	12:18	Flowing	0.1		16.1		6.6		254		163		6.6		67	
OSWP01	W2043	Old Swamp River	74-0237	8/14/09	12:27	Flowing	0.1		17.7		6.6		305		195		5.2		55	
OSWP01	W2043	Old Swamp River	74-0250	8/19/09	13:16	Flowing	0.1		21.1		6.4		333		213		3.3		38	
OSWP01	W2043	Old Swamp River	74-0390	10/1/09	12:20	Flowing	--		12.4	s	--		--		--		--		--	
OSWP02	W2044	Old Swamp River	74-0032	5/5/09	12:54	Flowing	0.8		11.6		6.6		286		183		8.3		77	
OSWP02	W2044	Old Swamp River	74-0111	6/9/09	12:52	Flowing	0.1		14.9		6.6		360		230		6.6		66	
OSWP02	W2044	Old Swamp River	74-0213	7/14/09	13:11	Flowing	0.4		18.0		6.5		271		173		6.7		72	

Table 9 (continued). 2009 MassDEP Weymouth and Weir River Watershed *in-situ* attended probe data

Station ID	Unique ID	Water Body	OWMID	Date	Time	Flow Condition	Sample Depth (meters)	Depth Qualifiers*	Temperature (deg. C)	Temperature Qualifiers*	pH (SU)	pH Qualifiers*	Specifiic Conductivity (uS/cm)	Specific Conductivity Qualifiers*	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers*	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers*	Saturation (%)	Saturation Qualifiers*
OSWP02	W2044	Old Swamp River	74-0290	8/18/09	12:55	Flowing	0.1		24.0		6.4		337		216		4.8		57	
OSWP02	W2044	Old Swamp River	74-0378	9/22/09	13:26	Flowing	0.1		15.9	u	6.6		311	u	199	u	7.3		74	
OSWP03	W2045	Old Swamp River	74-0057	6/5/09	15:59	Flowing	0.2		15.2		6.8		355		227		8.4		84	
OSWP03	W2045	Old Swamp River	74-0070	6/10/09	13:53	Flowing	0.1		13.9		6.8		371		238		8.7		85	
OSWP03	W2045	Old Swamp River	74-0128	6/11/09	14:40	Flowing	--		14.0	s	--		--		--		--		--	
OSWP03	W2045	Old Swamp River	74-0162	7/10/09	12:30	Flowing	0.2		15.6		6.5		268		171		8.0		81	
OSWP03	W2045	Old Swamp River	74-0175	7/15/09	12:58	Flowing	0.2		17.2		6.6		289		185		7.7		81	
OSWP03	W2045	Old Swamp River	74-0238	8/14/09	12:53	Flowing	0.2		18.7		6.7		317		203		7.5		81	
OSWP03	W2045	Old Swamp River	74-0251	8/19/09	13:45	Flowing	0.2		23.0		6.7		351		225		7.0		83	
OSWP03	W2045	Old Swamp River	74-0389	10/1/09	11:52	Flowing	--		11.9	s	--		--		--		--		--	
OSWP04	W2046	Old Swamp River	74-0034	5/5/09	13:20	Flowing	0.5		11.6		6.8		409		262		10.1		93	
OSWP04	W2046	Old Swamp River	74-0112	6/9/09	13:20	Flowing	0.2		14.9		6.7		531		340		8.4		84	
OSWP04	W2046	Old Swamp River	74-0214	7/14/09	13:44	Flowing	0.5		16.7		6.8		414		265		8.8		92	
OSWP04	W2046	Old Swamp River	74-0291	8/18/09	13:27	Flowing	0.5		##	u	6.5	i	494	i	316	i	7.1	u, i	83	u, i
OSWP04	W2046	Old Swamp River	74-0379	9/22/09	13:52	Flowing	0.1		15.2	u	6.7		470		301		9.1		91	
PLR	W2039	Plymouth River	74-0033	5/5/09	12:16	Flowing	0.5		11.9		6.8		748	c	479	c	9.3		87	
PLR	W2039	Plymouth River	74-0110	6/9/09	12:08	Flowing	0.3		14.2		6.9		732	c	468	c	8.3		82	
PLR	W2039	Plymouth River	74-0126	6/11/09	13:33	Flowing	--		13.5	s	--		--		--		--		--	
PLR	W2039	Plymouth River	74-0212	7/14/09	12:27	Flowing	0.3		16.7		6.6		640		409		7.7		81	
PLR	W2039	Plymouth River	74-0289	8/18/09	12:09	Flowing	0.4		21.0		6.7		657		421		6.8		78	
PLR	W2039	Plymouth River	74-0377	9/22/09	12:30	Flowing	0.3		14.9		6.8		652		417		8.3		82	

Table 9 (continued). 2009 MassDEP Weymouth and Weir River Watershed *in-situ* attended probe data

Station ID	Unique ID	Water Body	OWMID	Date	Time	Flow Condition	Sample Depth (meters)	Depth Qualifiers*	Temperature (deg. C)	Temperature Qualifiers*	pH (SU)	pH Qualifiers*	Specifiic Conductivity (uS/cm)	Specific Conductivity Qualifiers*	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers*	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers*	Saturation (%)	Saturation Qualifiers*
PLR	W2039	Plymouth River	74-0391	10/1/09	11:05	Flowing	--		11.3	s	--		--		--		--		--	
TB01	W2029	Town Brook	74-0028	5/5/09	11:00	Flowing	0.3		13.3		7.0		779	u, c	498	u, c	9.7		93	
TB01	W2029	Town Brook	74-0105	6/9/09	10:59	Flowing	0.2		15.5		7.2		1072	c	686	c	9.2		94	
TB01	W2029	Town Brook	74-0207	7/14/09	10:30	Flowing	0.1		17.8		7.2		970	c	621	c	8.8		95	
TB01	W2029	Town Brook	74-0284	8/18/09	10:37	Flowing	0.1		20.8		7.3		1005		643		8.6		98	
TB01	W2029	Town Brook	74-0368	9/22/09	10:39	Flowing	0.1		16.4		7.3		1067	u	683	u	9.6		99	
TB02	W2028	Town Brook	74-0027	5/5/09	10:40	Flowing	0.1		13.2		6.8		875	u, c	560	u, c	9.6		92	
TB02	W2028	Town Brook	74-0113	6/9/09	10:36	Flowing	0.3		15.5		7.2		1123	c	719	c	9.2		94	
TB02	W2028	Town Brook	74-0206	7/14/09	10:52	Flowing	0.1		18.0		7.2		977	c	625	c	8.9		95	
TB02	W2028	Town Brook	74-0283	8/18/09	10:18	Flowing	0.7	t	21.8	t	7.2	t	##	c, t	##	c, t	5.6	t	74	t
TB02	W2028	Town Brook	74-0367	9/22/09	10:17	Flowing	0.3		16.4		7.1		1127	u	721	u	9.4		97	
UNTP01	W2038	Unnamed Tributary	74-0127	6/11/09	14:16	Flowing	--		13.4	s	--		--		--		--		--	
UNTP01	W2038	Unnamed Tributary	74-0388	10/1/09	11:35	Flowing	--		11.8	s	--		--		--		--		--	
WB02	W2032	Weymouth Back River	74-0031	5/5/09	10:05	Flowing	##	i, t	15.1	t	6.7	t	##	u, c, t	##	u, c, t	8.5	t	88	t
WB02	W2032	Weymouth Back River	74-0053	6/5/09	12:54	Flowing	0.2	t	18.1	t	6.9	t	##	u, c, t	##	u, c, t	8.4	t	93	t
WB02	W2032	Weymouth Back River	74-0108	6/9/09	9:53	Flowing	0.0	i, t	18.6	t	6.6	t	##	c, t	##	c, t	8.5	t	93	t
WB02	W2032	Weymouth Back River	74-0066	6/10/09	10:58	Flowing	0.1	t	17.3	t	6.7	t	##	c, t	##	c, t	8.9	t	95	t
WB02	W2032	Weymouth Back River	74-0158	7/10/09	10:41	**	0.3		19.3		7.0		378		242		9.1		99	
WB02	W2032	Weymouth Back River	74-0210	7/14/09	9:57	Flowing	0.1		21.5		6.9		398		255		8.6		99	
WB02	W2032	Weymouth Back River	74-0171	7/15/09	10:22	**	0.2		21.8		6.9		398		254		8.5		98	

Table 9 (continued). 2009 MassDEP Weymouth and Weir River Watershed *in-situ* attended probe data

Station ID	Unique ID	Water Body	OWMID	Date	Time	Flow Condition	Sample Depth (meters)	Depth Qualifiers*	Temperature (deg. C)	Temperature Qualifiers*	pH (SU)	pH Qualifiers*	Specifiic Conductivity (uS/cm)	Specific Conductivity Qualifiers*	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers*	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers*	Saturation (%)	Saturation Qualifiers*
WB02	W2032	Weymouth Back River	74-0234	8/14/09	10:50	Flowing	0.2		21.2		6.7		405		259		8.4		95	
WB02	W2032	Weymouth Back River	74-0287	8/18/09	10:01	Flowing	0.6	t	23.5	t	7.0	t	##	u, c, t	##	u, c, t	4.2	t	57	t
WB02	W2032	Weymouth Back River	74-0247	8/19/09	10:55	Flowing	0.7	t	23.9	t	7.2	t	##	c, t	##	c, t	5.6	t	79	t
WB02	W2032	Weymouth Back River	74-0373	9/22/09	9:52	Flowing	0.1		17.6		6.7		1070	u	685	u	9.2		97	
WR01	W2033	Weir River	74-0054	6/5/09	13:45	Flowing	0.3		17.3		7.1		402		257		7.3		76	
WR01	W2033	Weir River	74-0067	6/10/09	11:50	Flowing	0.3		15.4		6.9		420		269		7.8		79	
WR01	W2033	Weir River	74-0123	6/11/09	12:05	Flowing	--		15.2	s	--		--		--		--		--	
WR01	W2033	Weir River	74-0159	7/10/09	11:12	Flowing	0.4		16.7		6.6		293		188		7.5		77	
WR01	W2033	Weir River	74-0172	7/15/09	10:55	Flowing	0.3		18.6		6.7		322		206		7.1		76	
WR01	W2033	Weir River	74-0235	8/14/09	11:26	Flowing	0.3		19.3		6.8		379		243		7.5		82	
WR01	W2033	Weir River	74-0248	8/19/09	11:34	Flowing	0.3		24.0		7.0		388		248		6.7		81	
WR01	W2033	Weir River	74-0374	9/22/09	10:24	Flowing	0.2		15.4		6.8		358		229		8.3		84	
WR01	W2033	Weir River	74-0371	10/1/09	10:10	Flowing	--		12.9	s	--		--		--		--		--	
WR02	W2034	Weir River	74-0055	6/5/09	14:15	Flowing	0.3		17.5		7.0		409		262		6.9		73	
WR02	W2034	Weir River	74-0068	6/10/09	12:13	Flowing	0.3		15.8		6.9		431		276		7.2		74	
WR02	W2034	Weir River	74-0124	6/11/09	12:37	Flowing	--		15.5	s	--		--		--		--		--	
WR02	W2034	Weir River	74-0160	7/10/09	11:29	Flowing	0.3		17.1		6.5		296		189		7.2		75	
WR02	W2034	Weir River	74-0173	7/15/09	11:16	Flowing	0.1		18.9		6.7		324		207		6.8		74	
WR02	W2034	Weir River	74-0236	8/14/09	11:46	Flowing	0.3		19.6		6.8		383		245		7.2		79	
WR02	W2034	Weir River	74-0249	8/19/09	12:11	Flowing	0.3		24.4		7.0		397		254		6.0		73	

Table 9 (continued). 2009 MassDEP Weymouth and Weir River Watershed *in-situ* attended probe data

Station ID	Unique ID	Water Body	OWMID	Date	Time	Flow Condition	Sample Depth (meters)	Depth Qualifiers*	Temperature (deg. C)	Temperature Qualifiers*	pH (SU)	pH Qualifiers*	Specifiic Conductivity (uS/cm)	Specific Conductivity Qualifiers*	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers*	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers*	Saturation (%)	Saturation Qualifiers*
WR02	W2034	Weir River	74-0385	10/1/09	10:33	Flowing	--		12.9	s	--		--		--		--		--	

*See Appendix 1 for a complete list of data symbols and qualifiers

Table 10. 2009 MassDEP Weymouth and Weir River Watershed summary of unattended probe temperature data

Station ID	Unique ID	Waterbody	OWMID	Flow Condition	Start Date	Deployment Duration (Hours)	Average (deg. C)	Minimum (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)	Average Daily Amount of Time > 20 deg. C (Hours)
ACCB03	W2037	Accord Brook	74-0046	Flowing	6/8/09	48.5	16.0	14.0	19.0	17.7	0.0	0.0%	0.0	0.0
ACCB03	W2037	Accord Brook	74-0151	Flowing	7/13/09	46.0	17.5	16.2	19.0	18.3	0.0	0.0%	0.0	0.0
ACCB03	W2037	Accord Brook	74-0227	Flowing	8/17/09	50.0	23.0	21.9	24.2	24.2	50.0	100.0%	0.0	24.0
CHR01	W2051	Cochato River	74-0048	Flowing	6/8/09	50.0	17.1	14.9	20.2	19.2	1.4	2.9%	0.0	0.0
CHR01	W2051	Cochato River	74-0153	Flowing	7/13/09	47.0	19.8	17.5	22.0	21.2	22.4	47.7%	0.0	11.4
CHR01	W2051	Cochato River	74-0229	Flowing	8/17/09	51.0	23.6	22.4	24.4	24.4	51.0	100.0%	0.0	24.0
CRB02	W2049	Cranberry Brook	74-0047	Flowing	6/8/09	50.0	15.4	13.5	20.1	16.2	0.9	1.9%	0.0	0.0
CRB02	W2049	Cranberry Brook	74-0152	Flowing	7/13/09	47.0	17.8	15.5	20.4	20.1	2.6	5.5%	0.0	2.1
CRB02	W2049	Cranberry Brook	74-0228	Flowing	8/17/09	51.0	22.4	20.7	24.3	24.3	51.0	100.0%	0.0	24.0
FB01	W2027	Furnace Brook	74-0037	Flowing	6/5/09	115.5	13.7	13.0	15.2	14.6	0.0	0.0%	0.0	0.0
FB01	W2027	Furnace Brook	74-0142	Flowing	7/10/09	120.0	16.2	15.2	18.5	17.0	0.0	0.0%	0.0	0.0
FB01	W2027	Furnace Brook	74-0218	Flowing	8/14/09	120.5	17.3	16.3	18.6	18.3	0.0	0.0%	0.0	0.0
FB01	W2027	Furnace Brook	74-0333	Flowing	9/18/09	71.5	14.4	13.2	15.6	15.0	0.0	0.0%	0.0	0.0
FB02	W2026	Furnace Brook	74-0036	Flowing	6/5/09	71.5	14.9	14.0	15.9	15.4	0.0	0.0%	0.0	0.0
FB02	W2026	Furnace Brook	74-0141	Flowing	7/10/09	72.5	17.7	16.4	19.2	18.5	0.0	0.0%	0.0	0.0
FB02	W2026	Furnace Brook	74-0217	Flowing	8/14/09	71.5	20.1	18.4	20.9	20.6	43.9	61.5%	0.0	17.7
FB02	W2026	Furnace Brook	74-0332	Flowing	9/18/09	72.0	14.9	13.6	16.1	15.8	0.0	0.0%	0.0	0.0
MLB01	W2050	Mary Lee Brook	74-0045	Flowing	6/5/09	118.5	14.4	12.5	17.3	16.1	0.0	0.0%	0.0	0.0
MLB01	W2050	Mary Lee Brook	74-0150	Flowing	7/10/09	121.0	16.2	14.1	18.0	17.5	0.0	0.0%	0.0	0.0
MLB01	W2050	Mary Lee Brook	74-0226	Flowing	8/14/09	121.5	20.1	17.8	22.3	21.3	72.2	59.5%	0.0	14.3
MLB01	W2050	Mary Lee Brook	74-0334	Flowing	9/18/09	71.5	13.7	11.3	15.7	14.8	0.0	0.0%	0.0	0.0
MONT02	W2030	Monatiquot River	74-0038	Flowing	6/5/09	70.5	18.1	16.4	20.1	19.3	2.3	3.2%	0.0	1.1
MONT02	W2030	Monatiquot River	74-0143	Flowing	7/10/09	73.5	19.6	17.6	21.2	20.9	21.8	29.6%	0.0	9.8
MONT02	W2030	Monatiquot River	74-0219	Flowing	8/14/09	71.0	22.9	19.8	25.1	24.4	70.3	99.1%	0.0	24.0
MONT03	W2031	Monatiquot River	74-0039	Flowing	6/5/09	70.5	18.7	16.7	21.1	20.2	13.5	19.1%	0.0	5.3
MONT03	W2031	Monatiquot River	74-0144	Flowing	7/10/09	73.0	19.8	17.9	21.5	21.2	27.7	37.9%	0.0	10.4

Table 10 (continued). 2009 MassDEP Weymouth and Weir River Watershed summary of unattended probe temperature data

Station ID	Unique ID	Waterbody	OWMID	Flow Condition	Start Date	Deployment Duration (Hours)	Average (deg. C)	Minimum (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)	Average Daily Amount of Time > 20 deg. C (Hours)
MONT03	W2031	Monatiquot River	74-0220	Flowing	8/14/09	71.0	23.2	19.8	25.8	25.1	70.7	99.5%	0.0	24.0
OSWP01	W2043	Old Swamp River	74-0043	Flowing	6/5/09	117.5	14.0	13.0	15.8	14.9	0.0	0.0%	0.0	0.0
OSWP01	W2043	Old Swamp River	74-0148	Flowing	7/10/09	119.5	15.8	14.2	18.4	17.0	0.0	0.0%	0.0	0.0
OSWP01	W2043	Old Swamp River	74-0224	Flowing	8/14/09	120.5	19.6	17.5	21.1	20.3	35.7	29.7%	0.0	7.2
OSWP03	W2045	Old Swamp River	74-0044	Flowing	6/5/09	117.5	15.1	13.0	18.8	17.1	0.0	0.0%	0.0	0.0
OSWP03	W2045	Old Swamp River	74-0149	Flowing	7/10/09	119.5	16.6	14.0	18.7	18.4	0.0	0.0%	0.0	0.0
OSWP03	W2045	Old Swamp River	74-0225	Flowing	8/14/09	120.5	21.2	18.6	23.6	22.8	96.3	80.0%	0.0	19.3
WB02	W2032	Weymouth Back River	74-0040	Flowing	6/5/09	117.5	18.3	15.5	20.4	19.6	6.5	5.5%	0.0	1.6
WB02	W2032	Weymouth Back River	74-0145	**	7/10/09	119.0	22.0	19.3	23.6	23.2	114.6	96.3%	0.0	23.2
WB02	W2032	Weymouth Back River	74-0221	Flowing	8/14/09	119.5	25.0	21.1	28.5	28.0	119.5	100.0%	0.9	24.0
WR01	W2033	Weir River	74-0041	Flowing	6/5/09	117.5	16.8	15.0	19.3	18.2	0.0	0.0%	0.0	0.0
WR01	W2033	Weir River	74-0146	Flowing	7/10/09	119.0	19.0	16.7	20.7	20.2	16.1	13.6%	0.0	4.0
WR01	W2033	Weir River	74-0222	Flowing	8/14/09	120.0	22.8	19.2	24.9	24.0	117.8	98.2%	0.0	24.0
WR02	W2034	Weir River	74-0042	Flowing	6/5/09	117.5	17.3	15.3	19.8	18.8	0.0	0.0%	0.0	0.0
WR02	W2034	Weir River	74-0147	Flowing	7/10/09	119.5	19.4	17.0	21.3	20.8	38.7	32.3%	0.0	8.3
WR02	W2034	Weir River	74-0223	Flowing	8/14/09	120.0	23.4	19.6	25.3	24.5	119.1	99.3%	0.0	24.0

(Note: the sampling interval for all unattended probes was 30 minutes.)

Table 11. 2009 MassDEP Weymouth and Weir River Watershed summary of unattended probe dissolved oxygen data *(*Note: the sampling interval for all unattended probes was 30 minutes.)

Station ID	Unique ID	WaterBody	OWMID	Flow Condition	Start Date	Deployment Duration (Hours)	Average (mg/L)	Minimum (mg/L)	Mean of the Daily Min (mg/L)	Amount of Time < 3.0 mg/L (Hours)	Amount of Time < 5.0 mg/L (Hours)	Amount of Time < 6.0 mg/L (Hours)	Average Daily Amount of Time < 3.0 mg/L (Hours)	Average Daily Amount of Time < 5.0 mg/L (Hours)	Average Daily Amount of Time < 6.0 mg/L (Hours)	Average Saturation (%)	Minimum Saturation (%)	Maximum Saturation (%)
ACCB03	W2037	Accord Brook	74-0046	Flowing	6/8/09	48.5	2.9	1.9	1.9	35.8	48.5	48.5	23.5	24.0	24.0	30	19	50
ACCB03	W2037	Accord Brook	74-0151	Flowing	7/13/09	46.0	2.2	1.9	1.9	46.0	46.0	46.0	24.0	24.0	24.0	23	19	31
ACCB03	W2037	Accord Brook	74-0227	Flowing	8/17/09	50.0	0.3	0.2	0.2	50.0	50.0	50.0	24.0	24.0	24.0	3	2	8
CHR01	W2051	Cochato River	74-0048	Flowing	6/8/09	50.0	6.2	5.1	5.1	0.0	0.0	22.3	0.0	0.0	14.2	65	53	84
CHR01	W2051	Cochato River	74-0153	Flowing	7/13/09	47.0	6.6	5.2	5.9	0.0	0.0	14.8	0.0	0.0	4.1	73	56	95
CHR01	W2051	Cochato River	74-0229	Flowing	8/17/09	51.0	4.9	4.1	4.1	0.0	28.0	51.0	0.0	13.1	24.0	59	47	71
CRB02	W2049	Cranberry Brook	74-0047	Flowing	6/8/09	50.0	8.5	7.7	8.3	0.0	0.0	0.0	0.0	0.0	0.0	86	82	92
CRB02	W2049	Cranberry Brook	74-0152	Flowing	7/13/09	47.0	8.4	8.1	8.1	0.0	0.0	0.0	0.0	0.0	0.0	89	87	92
CRB02	W2049	Cranberry Brook	74-0228	Flowing	8/17/09	51.0	7.9	7.5	7.5	0.0	0.0	0.0	0.0	0.0	0.0	92	89	97
FB01	W2027	Furnace Brook	74-0037	Flowing	6/5/09	115.5	8.5	7.8	8.0	0.0	0.0	0.0	0.0	0.0	0.0	83	75	93
FB01	W2027	Furnace Brook	74-0142	Flowing	7/10/09	120.0	8.0	7.3	7.7	0.0	0.0	0.0	0.0	0.0	0.0	82	75	93
FB01	W2027	Furnace Brook	74-0218	Flowing	8/14/09	120.5	9.1	8.9	8.9	0.0	0.0	0.0	0.0	0.0	0.0	96	93	101
FB01	W2027	Furnace Brook	74-0333	Flowing	9/18/09	71.5	9.5	9.1	9.3	0.0	0.0	0.0	0.0	0.0	0.0	95	93	97
FB02	W2026	Furnace Brook	74-0036	Flowing	6/5/09	71.5	8.5	7.8	8.2	0.0	0.0	0.0	0.0	0.0	0.0	85	78	90
FB02	W2026	Furnace Brook	74-0141	Flowing	7/10/09	72.5	8.7	8.1	8.3	0.0	0.0	0.0	0.0	0.0	0.0	91	87	95
FB02	W2026	Furnace Brook	74-0217	Flowing	8/14/09	71.5	8.0	7.5	7.6	0.0	0.0	0.0	0.0	0.0	0.0	89	84	93
FB02	W2026	Furnace Brook	74-0332	Flowing	9/18/09	72.0	8.9	8.6	8.7	0.0	0.0	0.0	0.0	0.0	0.0	90	88	93
MLB01	W2050	Mary Lee Brook	74-0045	Flowing	6/5/09	118.5	8.4	7.9	8.1	0.0	0.0	0.0	0.0	0.0	0.0	83	78	85
MLB01	W2050	Mary Lee Brook	74-0150	Flowing	7/10/09	95.0	7.4	6.3	7.0	0.0	0.0	0.0	0.0	0.0	0.0	75	65	87
MLB01	W2050	Mary Lee Brook	74-0226	Flowing	8/14/09	121.5	7.7	7.2	7.4	0.0	0.0	0.0	0.0	0.0	0.0	85	83	88
MLB01	W2050	Mary Lee Brook	74-0334	Flowing	9/18/09	71.5	8.9	8.4	8.6	0.0	0.0	0.0	0.0	0.0	0.0	87	86	88
MONT02	W2030	Monatiquot River	74-0038	Flowing	6/5/09	70.5	8.9	8.5	8.6	0.0	0.0	0.0	0.0	0.0	0.0	95	93	98
MONT02	W2030	Monatiquot River	74-0143	Flowing	7/10/09	73.5	8.6	8.2	8.3	0.0	0.0	0.0	0.0	0.0	0.0	94	90	98
MONT02	W2030	Monatiquot River	74-0219	Flowing	8/14/09	71.0	8.2	7.9	8.0	0.0	0.0	0.0	0.0	0.0	0.0	97	96	99
MONT03	W2031	Monatiquot River	74-0039	Flowing	6/5/09	70.5	7.5	6.2	6.9	0.0	0.0	0.0	0.0	0.0	0.0	81	67	94

Table 11 (continued). 2009 MassDEP Weymouth and Weir River Watershed summary of unattended probe dissolved oxygen data

Station ID	Unique ID	WaterBody	OWMID	Flow Condition	Start Date	Deployment Duration (Hours)	Average (mg/L)	Minimum (mg/L)	Mean of the Daily Min (mg/L)	Amount of Time < 3.0 mg/L (Hours)	Amount of Time < 5.0 mg/L (Hours)	Amount of Time < 6.0 mg/L (Hours)	Average Daily Amount of Time < 3.0 mg/L (Hours)	Average Daily Amount of Time < 5.0 mg/L (Hours)	Average Daily Amount of Time < 6.0 mg/L (Hours)	Average Saturation (%)	Minimum Saturation (%)	Maximum Saturation (%)
MONT03	W2031	Monatiquot River	74-0144	Flowing	7/10/09	73.0	7.6	6.8	7.1	0.0	0.0	0.0	0.0	0.0	0.0	84	74	94
MONT03	W2031	Monatiquot River	74-0220	Flowing	8/14/09	71.0	6.5	5.6	6.1	0.0	0.0	17.3	0.0	0.0	4.0	77	67	87
OSWP01	W2043	Old Swamp River	74-0043	Flowing	6/5/09	117.5	6.0	5.2	5.4	0.0	0.0	59.4	0.0	0.0	14.1	58	52	67
OSWP01	W2043	Old Swamp River	74-0148	Flowing	7/10/09	119.5	6.3	5.5	5.8	0.0	0.0	31.8	0.0	0.0	7.8	63	58	88
OSWP01	W2043	Old Swamp River	74-0224	Flowing	8/14/09	120.5	3.7	2.6	3.3	16.3	117.9	120.5	1.3	24.0	24.0	41	29	54
OSWP03	W2045	Old Swamp River	74-0044	Flowing	6/5/09	117.5	8.0	7.3	7.6	0.0	0.0	0.0	0.0	0.0	0.0	80	76	87
OSWP03	W2045	Old Swamp River	74-0149	Flowing	7/10/09	119.5	7.5	6.8	7.1	0.0	0.0	0.0	0.0	0.0	0.0	77	71	87
OSWP03	W2045	Old Swamp River	74-0225	Flowing	8/14/09	120.5	6.7	6.3	6.4	0.0	0.0	0.0	0.0	0.0	0.0	77	74	80
WB02	W2032	Weymouth Back River	74-0040	Flowing	6/5/09	117.5	8.2	4.4	5.6	0.0	1.0	5.8	0.0	0.0	0.4	91	53	144
WB02	W2032	Weymouth Back River	74-0145	**	7/10/09	119.0	8.4	7.7	8.0	0.0	0.0	0.0	0.0	0.0	0.0	97	90	101
WB02	W2032	Weymouth Back River	74-0221	Flowing	8/14/09	119.5	7.7	4.2	5.3	0.0	3.0	6.4	0.0	0.6	1.4	98	56	166
WR01	W2033	Weir River	74-0041	Flowing	6/5/09	117.5	6.9	6.2	6.4	0.0	0.0	0.0	0.0	0.0	0.0	72	66	81
WR01	W2033	Weir River	74-0146	Flowing	7/10/09	119.0	6.9	6.6	6.6	0.0	0.0	0.0	0.0	0.0	0.0	75	72	80
WR01	W2033	Weir River	74-0222	Flowing	8/14/09	120.0	6.6	6.1	6.3	0.0	0.0	0.0	0.0	0.0	0.0	77	72	84
WR02	W2034	Weir River	74-0042	Flowing	6/5/09	117.5	6.7	6.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	70	65	77
WR02	W2034	Weir River	74-0147	Flowing	7/10/09	119.5	6.8	6.3	6.3	0.0	0.0	0.0	0.0	0.0	0.0	74	70	79
WR02	W2034	Weir River	74-0223	Flowing	8/14/09	120.0	6.1	5.7	5.9	0.0	0.0	55.5	0.0	0.0	10.9	73	69	81

Table 12: 2009 MassDEP Weymouth and Weir River Watershed continuous temperature deploy data

Station ID	Unique ID	Water Body	OWMID	Start Date	End Date	Total Deployment (Hours)	Average (deg. C)	Standard Deviation	Minimum (deg. C)	Maximum (deg. C)	Mean of the Daily Max (deg. C)	Range of 7-Day Average of the Daily Maximum (deg. C)	Maximum Weekly Average Temperature (deg. C)	Amount of Time > 20 deg. C (Hours)	Maximum Duration > 20 deg. C (Hours)	Average Daily Amount of Time > 20 deg. C (Hours)	Average Daily Amount of Time > 28.3 deg. C (Hours)
EEL01	W2040	Eel River	74-0116	6/11/09	10/1/09	2685.5	15.6	2.0	10.0	21.9	17.0	14.8-20.8	19.3	55.2	13.3	0.5	0.0
FR01	W2053	Farm River	74-0121	6/11/09	10/1/09	2685.0	19.4	3.0	12.3	26.5	20.9	17.0-26.3	25.2	1011.5	328.7	9.1	0.0
MLB01	W2050	Mary Lee Brook	74-0122	6/11/09	10/1/09	2684.5	16.9	2.3	10.8	23.2	18.0	15.5-22.5	21.6	308.7	185.6	2.8	0.0
OSWP01	W2043	Old Swamp River	74-0120	6/11/09	10/1/09	2684.5	16.9	2.2	12.0	23.1	17.7	14.7-21.9	21.0	290.8	135.9	2.6	0.0
OSWP03	W2045	Old Swamp River	74-0119	6/11/09	10/1/09	2315.5	17.5	2.7	11.3	25.3	18.9	15.5-24.2	22.6	457.6	207.1	4.8	0.0
PLR	W2039	Plymouth River	74-0117	6/11/09	10/1/09	2685.0	17.2	2.4	11.2	23.5	18.3	15.5-22.6	21.6	403.8	160.7	3.6	0.0
UNTP01	W2038	Unnamed Tributary	74-0118	6/11/09	10/1/09	2685.0	16.8	2.2	11.0	22.7	18.0	15.4-21.9	20.8	249.7	69.1	2.2	0.0
WR01	W2033	Weir River	74-0114	6/11/09	10/1/09	2685.5	19.0	2.7	12.8	25.7	20.0	16.4-24.9	24.0	910.0	319.7	8.2	0.0
WR02	W2034	Weir River	74-0115	6/11/09	10/1/09	2685.5	19.4	2.8	12.8	26.6	20.5	16.8-25.3	24.6	1013.5	321.8	9.1	0.0

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Appendix 1: 2009 Data Symbols and Qualifiers

Excerpted from: Water Quality Data Validation Report for Year 2009 Project Data (CN 362.0)

The following data qualifiers or symbols are used in the MADEP/DWM WQD database for qualified and censored water quality and multi-probe 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

Multi-probe-specific Qualifiers:

" i " = inaccurate readings from Multi-probe 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 Multi-probe 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 Multi-probe 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