

## Section 5-2

# Androscoggin River (Friends of Merrymeeting Bay)

Refer to Chapter 4 of this document for information about sampling methods, sampling sites, and quality assurance.

### Overview

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The lower Androscoggin River is monitored by the Friends of Merrymeeting Bay (FOMB). FOMB has been in existence since 1975 and focuses on protecting the Merrymeeting Bay watershed through research, education, advocacy, and land conservation. They have been monitoring the lower part of the Androscoggin River, tributaries to Merrymeeting Bay, and the Bay since 1999. Their monitoring has extended up the Androscoggin at times (depending on volunteers) to Livermore Falls. FOMB joined the VRMP in 2009 with an interest in bringing about water classification upgrades when possible.

The Androscoggin River is the third largest river in the state. It has a length of 177 miles and drainage area of 3,450 square miles (2,730 sq. mi. in Maine).<sup>1</sup> The headwaters are Umbagog Lake in New Hampshire. From there it flows into New Hampshire and then back into Maine through the towns of Gilead and Bethel. It continues flowing through the towns and cities of Bethel, Rumford, Mexico, Dixfield, Jay, Livermore Falls, Lewiston, Auburn, Lisbon, Lisbon Falls, Durham, Brunswick, and Topsham where it joins the Kennebec River at Merrymeeting Bay.

The Androscoggin River is assigned Class B from the Maine/New Hampshire boundary to its confluence with the Ellis River. It is assigned Class C from the confluence with the Ellis River to Merrymeeting Bay. The “DEP 2010 Integrated Water Quality Monitoring and Assessment Report” lists segments of the main stem in 3 categories:

- The main stem, upstream of Gulf Island Pond, is listed in Category 4-A (Rivers and Streams with Impaired Use, TMDL completed). Causes of impairment are phosphorus, dissolved oxygen, total suspended solids, biological oxygen demand, and algal blooms. In addition, Category 4-A is Lewiston-Auburn variable mileage, CSO affected. Cause of impairment is *E.coli*.
- A number of segments are listed in Category 4-B (Rivers and Streams Impaired by Pollutants-Pollution Control Requirements Expected to Result in Attainment). The cause of non-attainment is dioxin.
- A number of segments are listed in Category 5-D (Rivers and Streams Impaired by Legacy Pollutants). The cause of non-attainment is polychlorinated biphenyls (PCBs).

The Androscoggin River has a long history of industrial and municipal use over the last 200 years.<sup>1</sup> Beginning in the early 1800s, many dams were constructed for mills, primarily in the lower part of the river. By the late 1800s, many textile and lumber mills were in operation, mostly from Lewiston to Brunswick. Pulp and paper mills that are still in operation today were established in the late 1800s in New Hampshire, Rumford, and Jay. Beginning in the late 1920s, Central Maine Power built

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<sup>1</sup> Maine Rivers Website- Androscoggin River Profile

hydroelectric dams that impounded much of the river from Lewiston to Livermore Falls. Some of these uses continue today. “Along its course to the sea, the river is repeatedly dammed. It receives discharges from industrial and municipal sources, as well as polluted runoff from a variety of sources.”<sup>2</sup> Specific problems include mill discharges, combined sewer overflows (CSOs), dam impacts (28 dams exist), and historical sediment toxics.

The primary purpose of monitoring performed by FOMB, done under the VRMP, is to acquire data that will facilitate the water quality classification upgrade of the lower portion of the Androscoggin River. FOMB currently monitors at numerous sites from Merrymeeting Bay upstream to Lewiston. Three of FOMB’s sampling sites are VRMP approved sites and five are non-approved sites.

In 2011, FOMB requested that two of the three approved sites (Water Street Mooring, WSM and Brunswick Canoe Mooring, BCM) be moved from mid-channel to shore. They submitted monitoring data from mid-channel and shore to demonstrate similarity. The Department approved relocation of these approved sites. FOMB renamed these sites Brunswick Water Street (BWS) and Brunswick Canoe Portage (BCP), respectively.

## Methods

The volunteers monitored the Androscoggin River in 2012 at three approved stations [BBB, BWS, BCP] and five non-approved stations [DBL, BIL, FPD, FPU, PBL] on the main stem (Table 5-2-1 and Figures 5-2-1 through 5-2-3).

**Table 5-2-1:** Friends of Merrymeeting Bay sampling sites at Androscoggin River.

VRMP Site ID	Organization Site Code	Sample Location	Class
Androscoggin River-A231-VRMP	BBB	Bay Bridge Jetty	C
Androscoggin River-A281BK-VRMP	BWS	Brunswick Water Street	C
Androscoggin River-A299BK-VRMP	BCP	Brunswick Canoe Portage	C
Androscoggin River-A158-FOMB	DBL	Durham Boat Launch	C
Androscoggin River- A24-FOMB	BIL	Brunswick Interstate Ledges	C
Androscoggin River-A45-FOMB	FPD	Fish Park Downstream	C
Androscoggin River-A47-FOMB	FPU	Fish Park Upstream	C
Androscoggin River-A71-FOMB	PBL	Pejepscot Boat Launch	C

<sup>2</sup> Androscoggin River Alliance Website-Androscoggin River slideshow

# 2012 Androscoggin River Sampling Sites Friends of Merrymeeting Bay

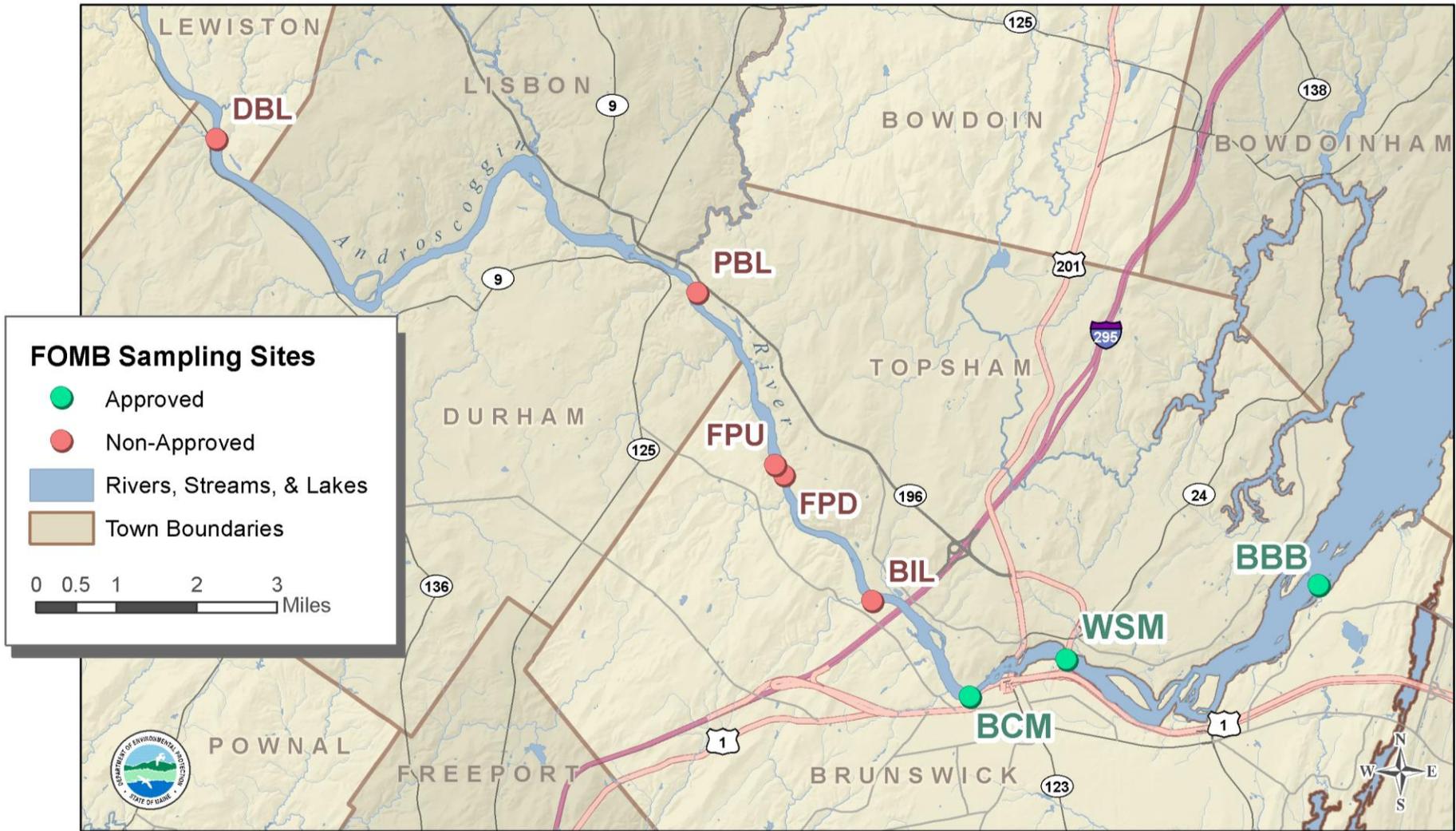


Figure 5-2-1: Map of all Friends of Merrymeeting Bay sampling sites on the Androscoggin River.

Monitoring was conducted from April through October, once per month. At each site, the monitors made direct measurements of water temperature, dissolved oxygen, and specific conductance using a handheld YSI 85 meter. Samples were also collected for *E. coli* bacteria at the three approved sites with a DEP designed bacteria sampling device or extension pole (which uses sterile whirl-paks for water collection). Bacteria samples were delivered to Bowdoin College for analysis by FOMB volunteers. Bacteria monitoring was also done at the non-approved sites, but since sampling at these sites does not meet VRMP requirements the data is not included.

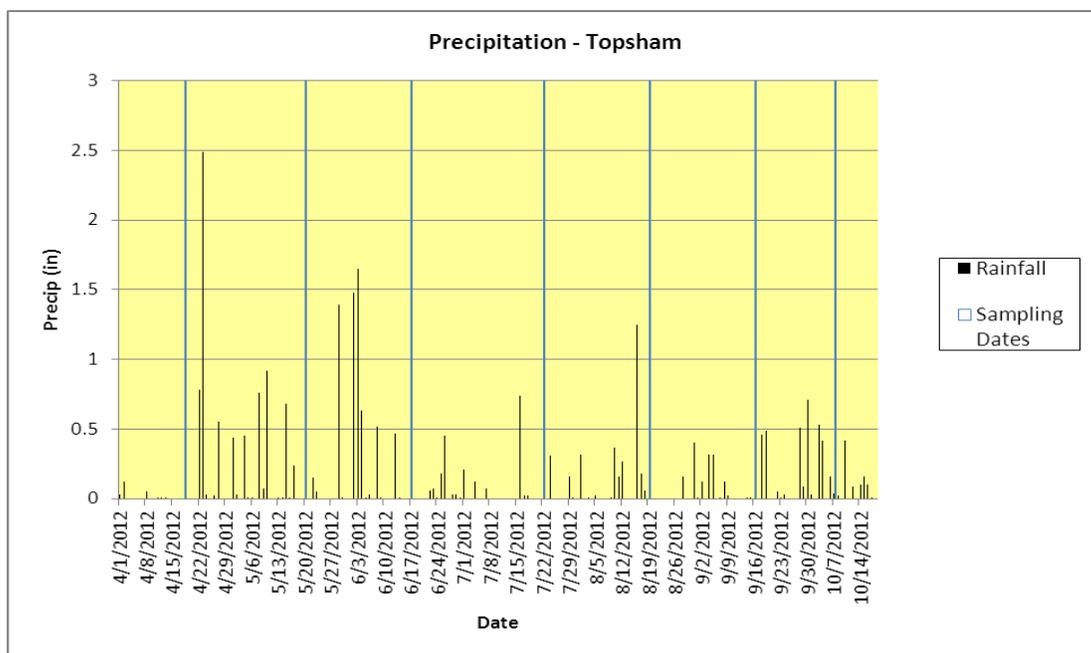
The approved sites met VRMP requirements for sampling laterally and vertically in the river to obtain well-mixed representative samples. As noted in the previous section, two of the approved sites were sampled from shore. The third site was sampled from a jetty allowing for a representative and well-mixed area of the river to be monitored.

## Results

Refer to Appendices A-1 and A-2 in discussion of individual site data and trends, as well as graphed data (Figures 5-2-5 through 5-2-14), at the end of this section of the report.

### Precipitation

Figure 5-2-4 provides a graph of rainfall and sampling dates for the monitoring period. Rainfall data was obtained from Weather Underground (<http://www.wunderground.com>). Weather station choice was based on proximity and station with most complete records. If there was an airport station close by, this was chosen. This information provides an overview of rainfall events and can be useful in interpreting monitoring results for some parameters.



**Figure 5-2-2:** Seasonal precipitation measured at Highland Green, Topsham.

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### *Dissolved Oxygen*

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Dissolved oxygen (DO) was measured 1-7 times at each of the eight sampling sites (Table 5-2-2 and Table 5-2-3). Monitoring occurred from April to October. Class C criteria for DO are a minimum of 5.0 mg/l (milligrams/liter) or 60% saturation, whichever is higher. To meet water quality criteria, both concentration and saturation standards must be met.

**Table 5-2-2:** A summary of minimum, maximum, and average dissolved oxygen concentration values (mg/l) at Friends of Merrymeeting Bay monitoring sites on the Androscoggin River.

Site	Approved Site	# of Samples	Minimum Value	Maximum Value	Average Value
BBB	Y	6	7.2	10.3	8.4
BWS	Y	5	7.6	10.7	8.9
BCP	Y	6	7.1	9.8	8.2
DBL	N	1	14.5	14.5	14.5
BIL	N	5	7.4	14.7	9.6
FPD	N	7	7.5	14.9	9.3
FPU	N	7	7.5	14.4	9.3
PBL	N	7	7.5	14.2	9.3

**Table 5-2-3:** A summary of minimum, maximum, and average dissolved oxygen saturation (%) values at Friends of Merrymeeting Bay monitoring sites on the Androscoggin River.

Site	Approved Site	# of Samples	Minimum Value	Maximum Value	Average Value
BBB	Y	6	83.5	103.5	90.8
BWS	Y	5	87.6	105.4	96.8
BCP	Y	6	83.4	101.1	88.6
DBL	N	1	112.8	112.8	112.8
BIL	N	5	87.7	115.2	96.9
FPD	N	7	87.7	114.5	95.3
FPU	N	7	88.1	111.6	94.8
PBL	N	7	87.6	111.5	96.1

Dissolved oxygen concentrations measured at Androscoggin River approved sites ranged from 7.1 mg/l to 10.7 mg/l. The three sites are very similar, although BWS was slightly higher. The lowest values were the late July and/or mid-August sampling events. Site BBB values for July and August were both 7.2 mg/l. BWS lowest value was in August at 7.6 mg/l. Site BCP July and August values were 7.1mg/l and 7.4 mg/l, respectively.

Dissolved oxygen concentrations measured at Androscoggin River non-approved sites ranged from 7.4 mg/l -14.9 mg/l. Site DBL was sampled only 1 time-mid April. The remaining sites BIL, FPU, FPD, and PBL were all very similar. The lowest readings were all around 7.5-8.3 mg/l for the late July and mid-August sampling events. Dissolved oxygen never dropped below the Class C standard of 5.0 mg/l. Dissolved oxygen percent saturation ranged from 83.4%-115.2% and did not go below the Class C standard of 60%. [See graphs at end of report]

Friends of Merrymeeting Bay volunteers do a good job of getting out early in the morning to sample. All but 2 of the 44 measurements were taken by 8:15 am or earlier. This is the recommended time to sample because DO is lowest at this time of day. Dissolved oxygen is also affected by flow conditions and temperature. During high flow conditions, more oxygen enters the river from the atmosphere as the water is more turbulent and there is more opportunity for re-aeration. Cooler water holds more oxygen.

### Water Temperature

Temperature was measured 1-7 times at each of the eight sampling sites (Table 5-2-4). Monitoring occurred from April through October. Maine's Regulations Relating to Temperature (06-096 CMR Chapter 582) require that discharge of pollutants not raise the temperature of any river and stream above the EPA criteria for indigenous species (23°C maximum and 19°C weekly average) or 0.3°C (0.5°F) above the temperature that would naturally occur outside a mixing zone established by the Board of Environmental Protection. Pollutant is defined in statute as many things including dirt and heat. For tidal waters, discharge of pollutants may not raise the temperature more than 4°F (2.2°C) or more than 1.5°F (0.8°C) from June 1 to September 1, and may not cause the temperature of any tidal waters to exceed 85°F (29°C) at any point outside a mixing zone established by the Board of Environmental Protection.

**Table 5-2-4:** A summary of minimum, maximum, and average water temperature (°C) values at Friends of Merrymeeting Bay monitoring sites on the Androscoggin River.

Site	Approved Site	# of Samples	Minimum Value	Maximum Value	Average Value
BBB	Y	3	16.2	20.7	18.8
BWS	Y	5	14.9	24.5	19.6
BCP	Y	4	15.1	23.4	18.7
DBL	N	1	4.8	4.8	4.8
BIL	N	5	4.9	24.9	17.8
FPD	N	7	4.8	25.2	17.8
FPU	N	7	4.7	25.1	17.8
PBL	N	7	5.1	25.3	17.5

Temperatures measured at all the Androscoggin River sites ranged from 4.7°-25.2°C (Celsius).

All of the approved sites had very similar temperature for all but one date. The August value at Site BBB was lower than the other two sites (20.7°C vs. 22.7- 23.4°C) which were high. Temperature was not recorded in July for Sites BBB and BCP. The July value for Site WSM was the highest recorded (24.5°C). The non-approved sites were all very similar. Temperature was high in July and August ranging from 22.9-25.3°C.

### *Specific Conductance*

Specific conductance was measured 1-7 times at each of the eight sampling sites as well (Table 5-2-5). Monitoring occurred from April through October. Specific conductance is related to the amount of dissolved materials in the water. While there are no numerical standards, a relationship exists between conductivity and chloride which has numerical criteria. In general, streams located in urban areas tend to have high specific conductance due to polluted urban stormwater runoff. This may also in large part be due to salt buildup in surface and groundwater from road maintenance practices. Also, discharges from pulp and paper mills upstream measurably increase the conductivity of the river.

**Table 5-2-5:** A summary of minimum, maximum, and average specific conductance values (micro-ohms/cm,  $\mu\text{S}/\text{cm}$ ) at Friends of Merrymeeting Bay monitoring sites on the Androscoggin River.

Site	Approved Site	# of Samples	Minimum Value	Maximum Value	Average Value
BBB	Y	6	58	108	81
BWS	Y	5	105	111	109
BCP	Y	5	54	86	70
DBL	N	1	35	35	35
BIL	N	5	39	92	66
FPD	N	7	38	100	74
FPU	N	7	38	94	74
PBL	N	7	38	99	75

Specific conductance at all the sites ranged from 35-111 $\mu\text{S}/\text{cm}$ , which are elevated somewhat from natural background values, reflecting upstream point and non-point source discharges.

Approved Sites BBB and BCP were very similar with minimum values 54-58  $\mu\text{S}/\text{cm}$  and maximum values 86- 108  $\mu\text{S}/\text{cm}$ . Site BWS was higher with values consistent through the season ranging from 105-111  $\mu\text{S}/\text{cm}$ . The non-approved sites were all very similar with minimum values 38-39  $\mu\text{S}/\text{cm}$  and maximum values 66-74  $\mu\text{S}/\text{cm}$  (exclusive of Site DBL which was sampled only 1 time).

## Bacteria

*Escherichia coli* bacteria were measured 6 times at each of the three approved sampling sites (Table 5-2-6). Monitoring occurred from April through October. Enterococcus bacteria are used as the indicator organism for marine waters, and *E. coli* bacteria are used for freshwaters. While these types of bacteria are not pathogens, their presence in the water may indicate the presence of other organisms including bacteria and viruses that can cause gastrointestinal illnesses. Class C criteria for bacteria are as follows: “Between May 15<sup>th</sup> and September 30<sup>th</sup>, the number of *Escherichia Coli* of human and domestic origin shall not exceed a geometric mean of 126/100 ml (milliliters) or an instantaneous level of 236/100 ml.”

Results for the non-approved sites were not included, since non-approved methods are used for collection at those sites. Geometric means are calculated instead of averages because measures like bacteria often have a few very large values that strongly influence the mean and make it a poor predictor.

**Table 5-2-6:** A summary of minimum, maximum, and geometric mean values (MPN/100mL) for bacteria at Friends of Merrymeeting Bay monitoring sites on the Androscoggin River.

Site	Bacteria Type	# of Samples	Minimum Value	Maximum Value	Geometric Mean
BBB	<i>E. coli</i>	6	10	78	34
BWS	<i>E. coli</i>	6	12	101	29
BCP	<i>E. coli</i>	6	7	71	19

None of these approved sites had maximum values exceeding the instantaneous criterion (see Appendix A-1 and the graphs at the end of this report). Typically, observed high bacterial levels are associated with stormwater runoff and/or combined sewer overflows. None of the sampling coincided with significant rain events. The only sampling date close to a significant rain event was the August 19<sup>th</sup> date. There was recorded 1.25” of rain at the Highland Green in Topsham monitoring station on 9/16/2013. The highest values for the three sites were for this date ranging from 71-101MPN/100 ml.

## Discussion and Recommendations

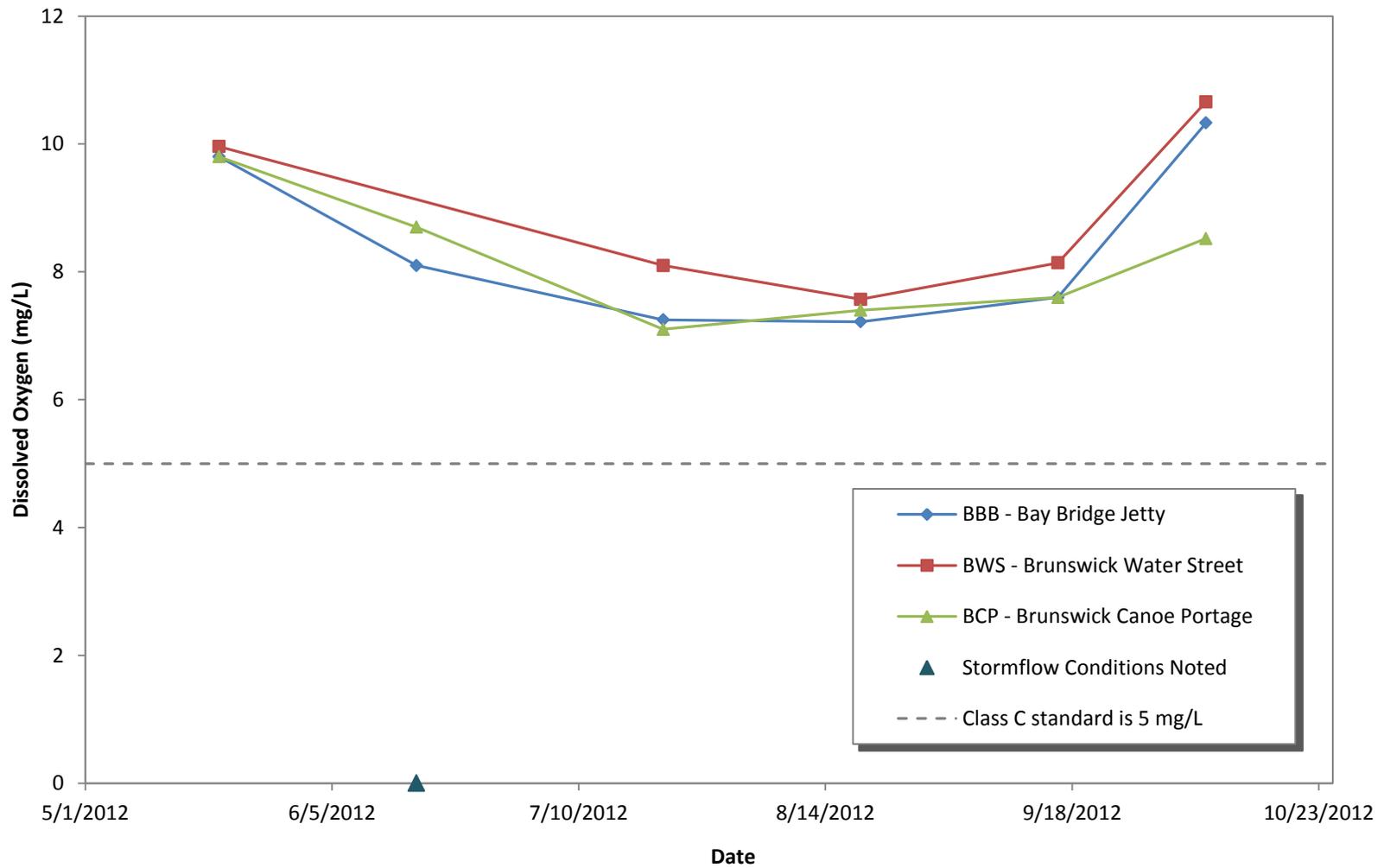
There are numerous sources of pollution and other stresses to the Androscoggin River sites monitored by the Friends of Merrymeeting Bay that could potentially have an impact on water quality. Some of those sources of pollution and stress may include:

- Point source pollution (pollution originating from a direct discharge including wastewater treatment plant discharge, combined sewer overflows and overboard discharges).
- Non-point source pollution (e.g., eroded soil, fertilizers, pesticides, heavy metals, petroleum residues, road salt, septic systems, wildlife and pet feces) and polluted stormwater originating from urban impervious surfaces (e.g., streets, parking lots, driveways, rooftops), agriculture, and forestry.

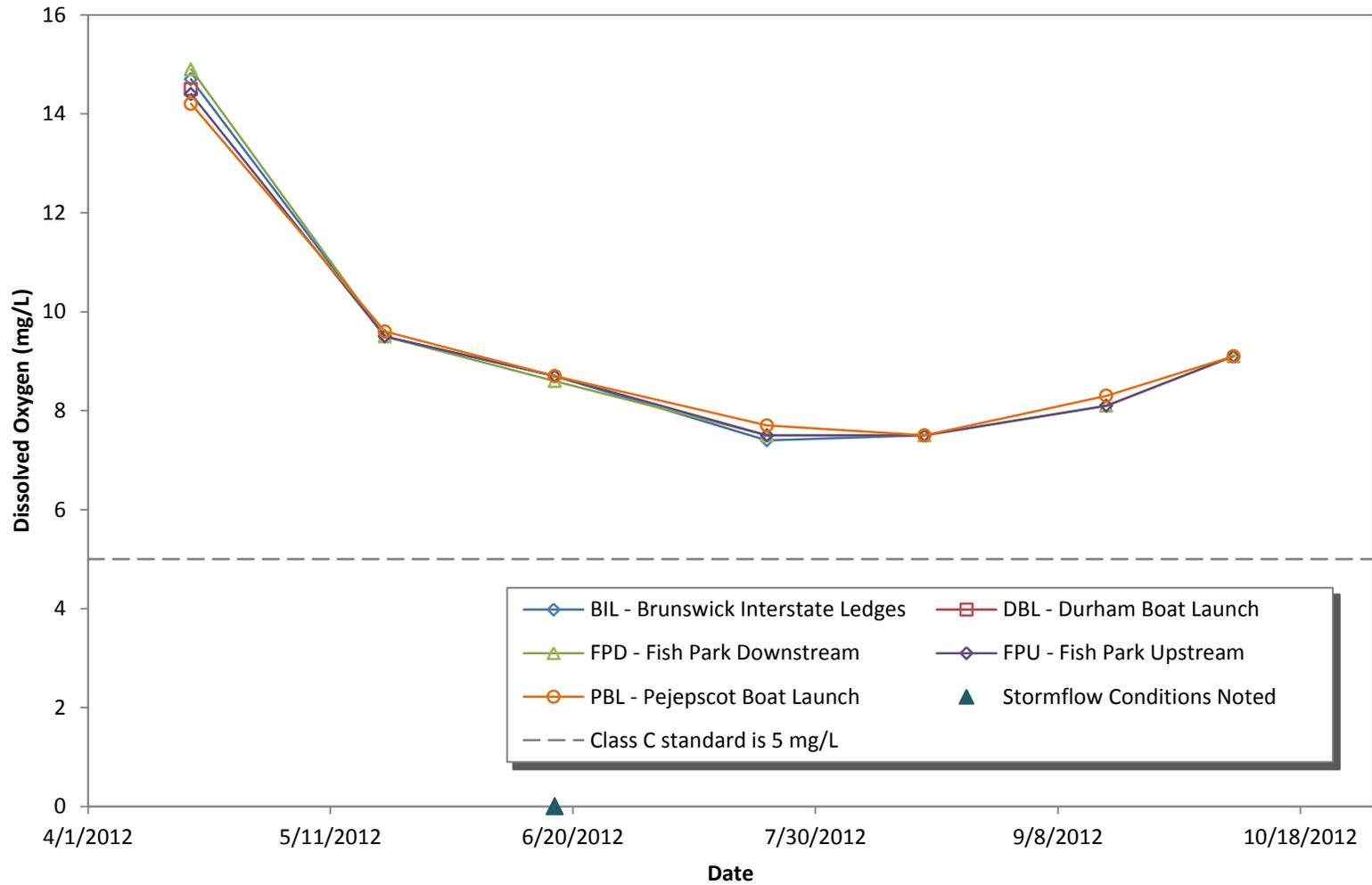
- Ponds and impoundments (which often create more pond-like aquatic habitat conditions that may have higher water temperatures and lower dissolved oxygen concentrations than free-flowing waters).
- Natural effects of wetlands (such as contributing waters to a stream/river that have low dissolved oxygen levels due to the decomposition of large amounts of organic matter, respiration of abundant plant matter, and low re-aeration rates that are characteristic of many wetlands).

The following are recommendations for future monitoring:

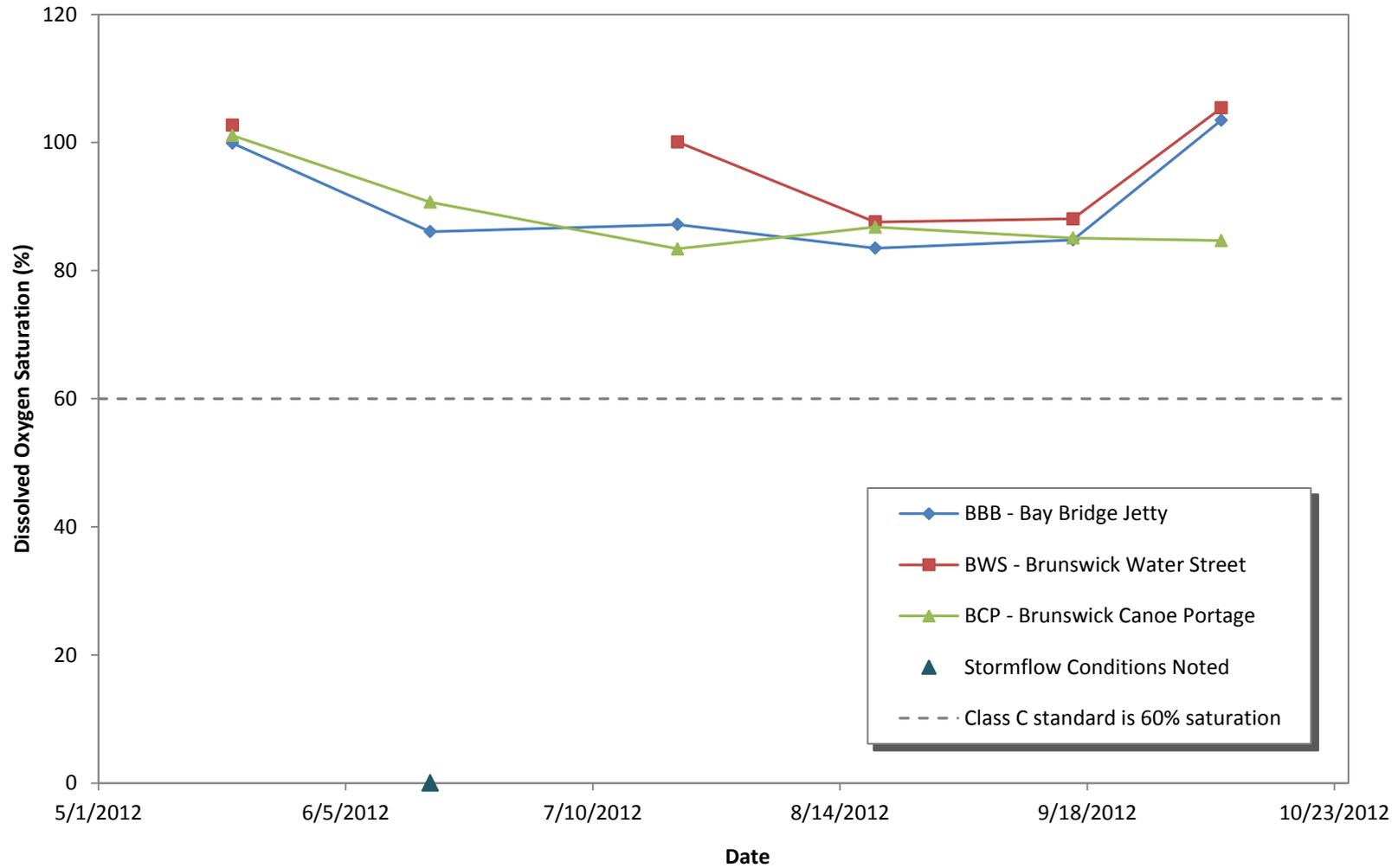
- River temperatures are substantially lower in April and October, and dissolved oxygen concentrations are proportionally higher. There is a good argument for collecting as much water quality data as possible, but if a primary goal of FOMB is to demonstrate the river meets minimum DO criterion for reclassification, they should reconsider the value of extending the season.
- Bacteria monitoring should include a mix of sampling events to include both dry and runoff events. High bacteria levels appear to be related here, not surprisingly, to precipitation/runoff events. If possible, volunteer leaders could try to collect 1-2 bacteria samples during/after rain events.
- Continue monitoring at all stations (or at least a subset of sites) to develop a long-term trend database.



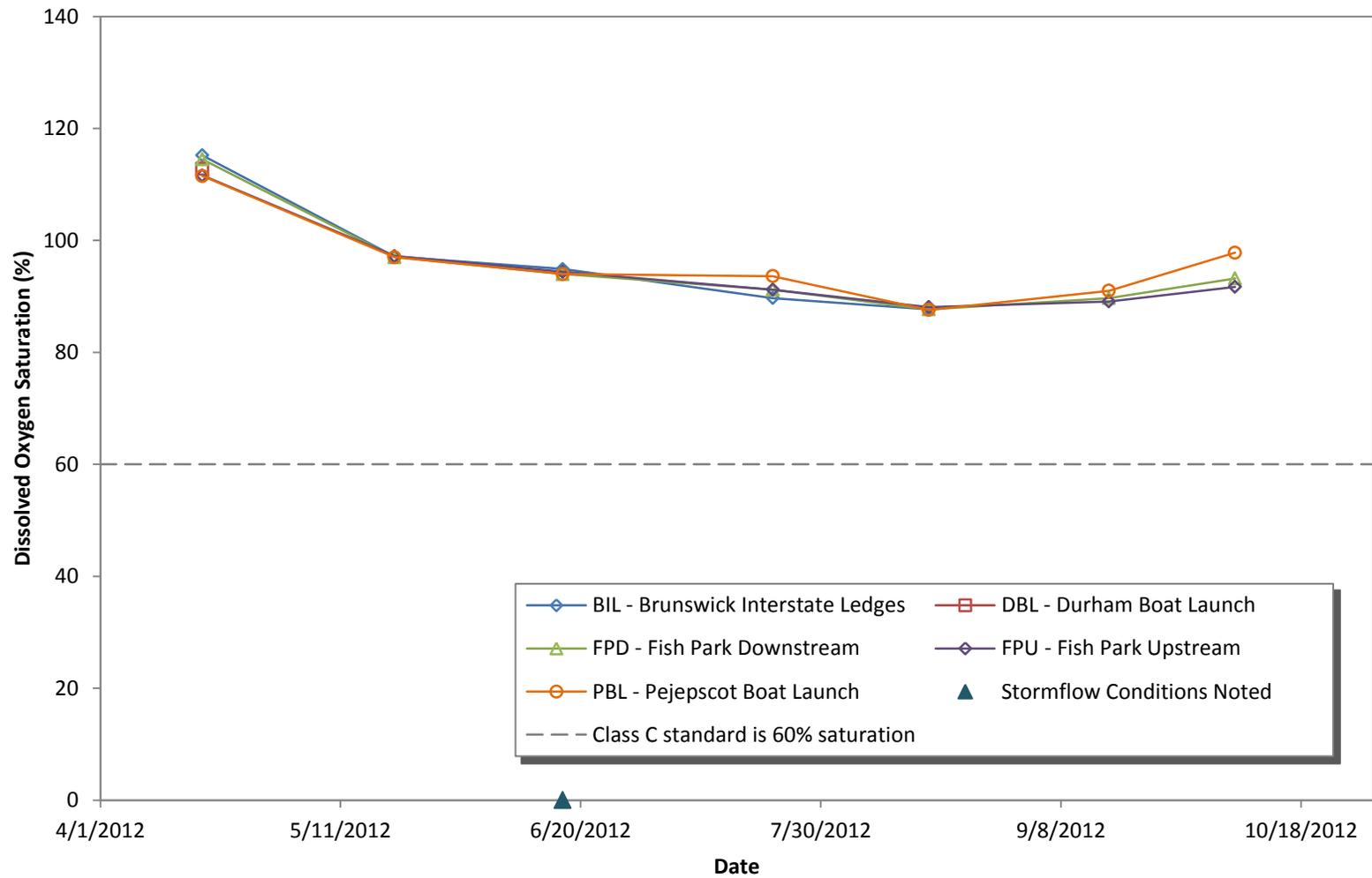
**Figure 5-2-3. Dissolved oxygen concentrations of Friends of Merrymeeting Bay approved monitoring sites on the Androscoggin River for 2012**



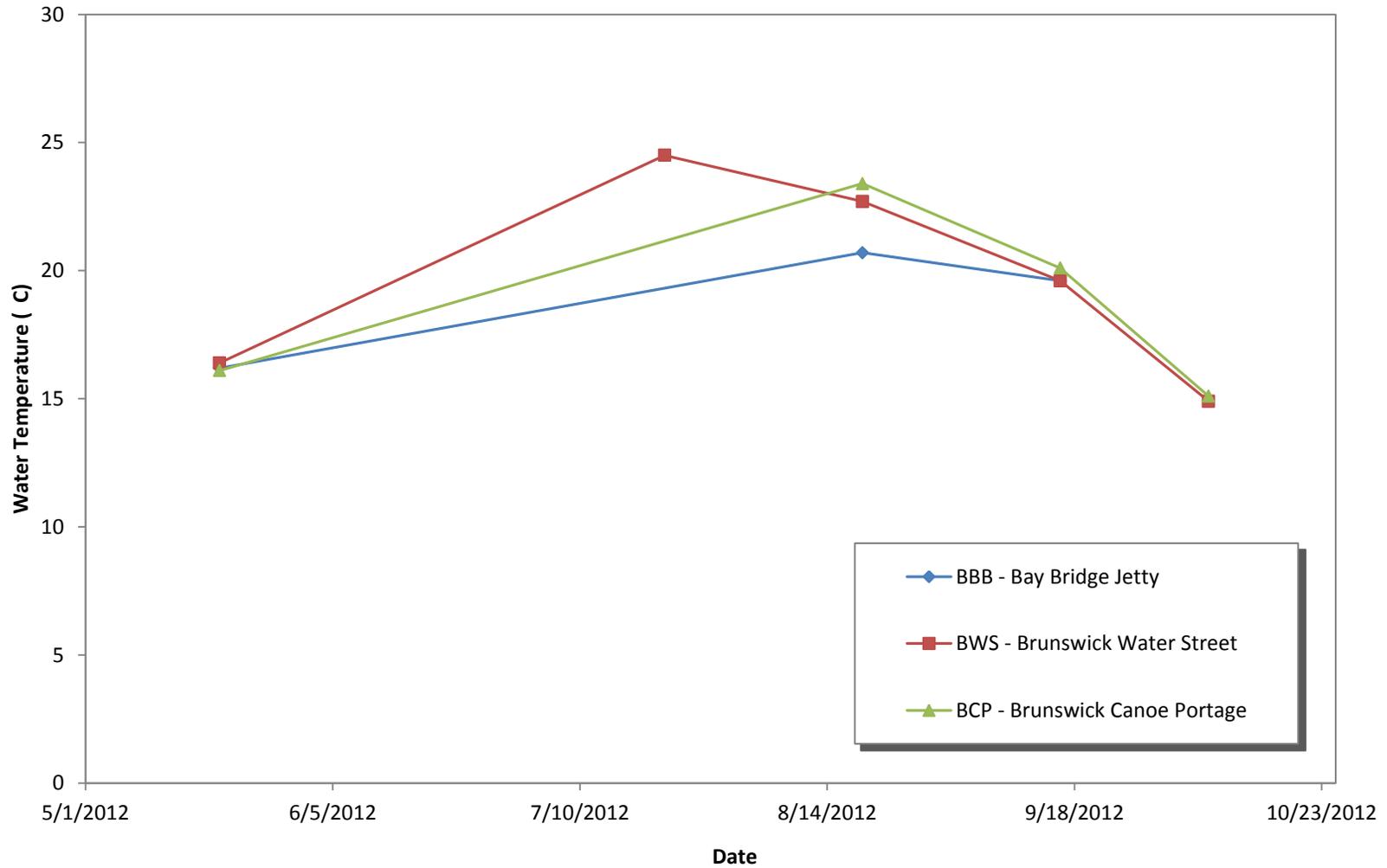
**Figure 5-2-4. Dissolved oxygen concentrations at Friends of Merrymeeting Bay non-approved monitoring sites on the Androscoggin River for 2012**



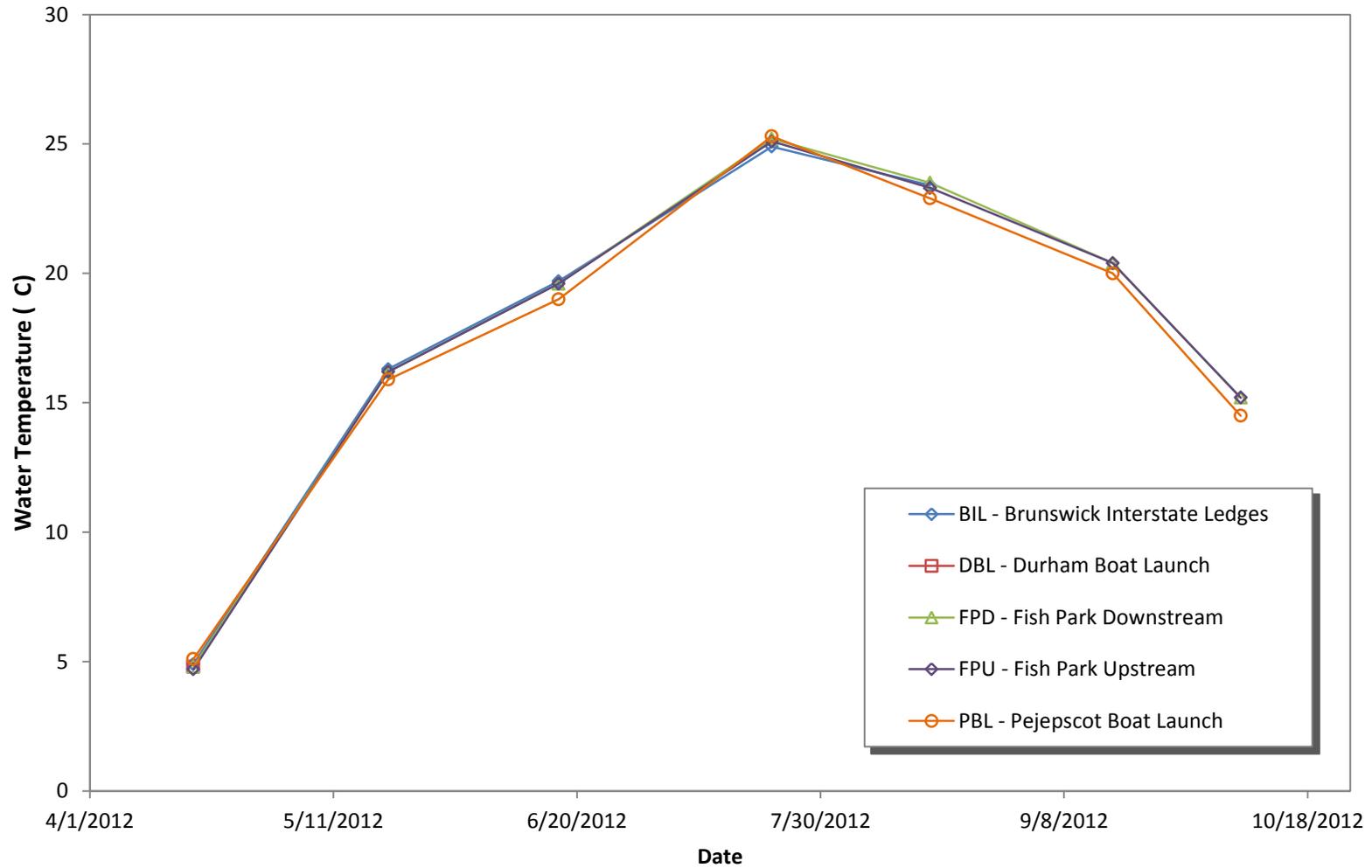
**Figure 5-2-5. Dissolved oxygen % saturation of Friends of Merrymeeting Bay approved monitoring sites on the Androscoggin River for 2012**



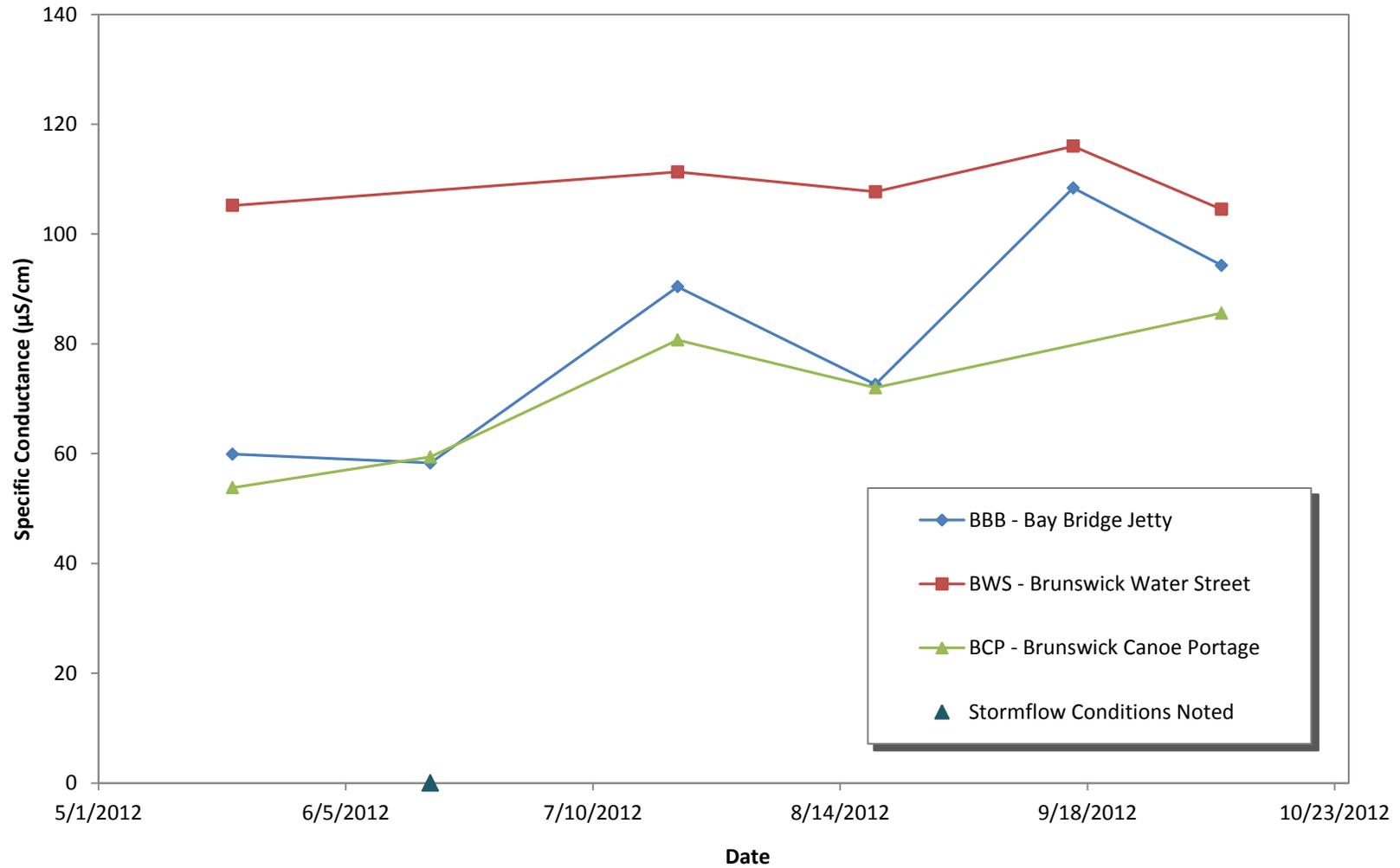
**Figure 5-2-6. Dissolved oxygen % saturation at Friends of Merrymeeting Bay non-approved monitoring sites on the Androscoggin River for 2012**



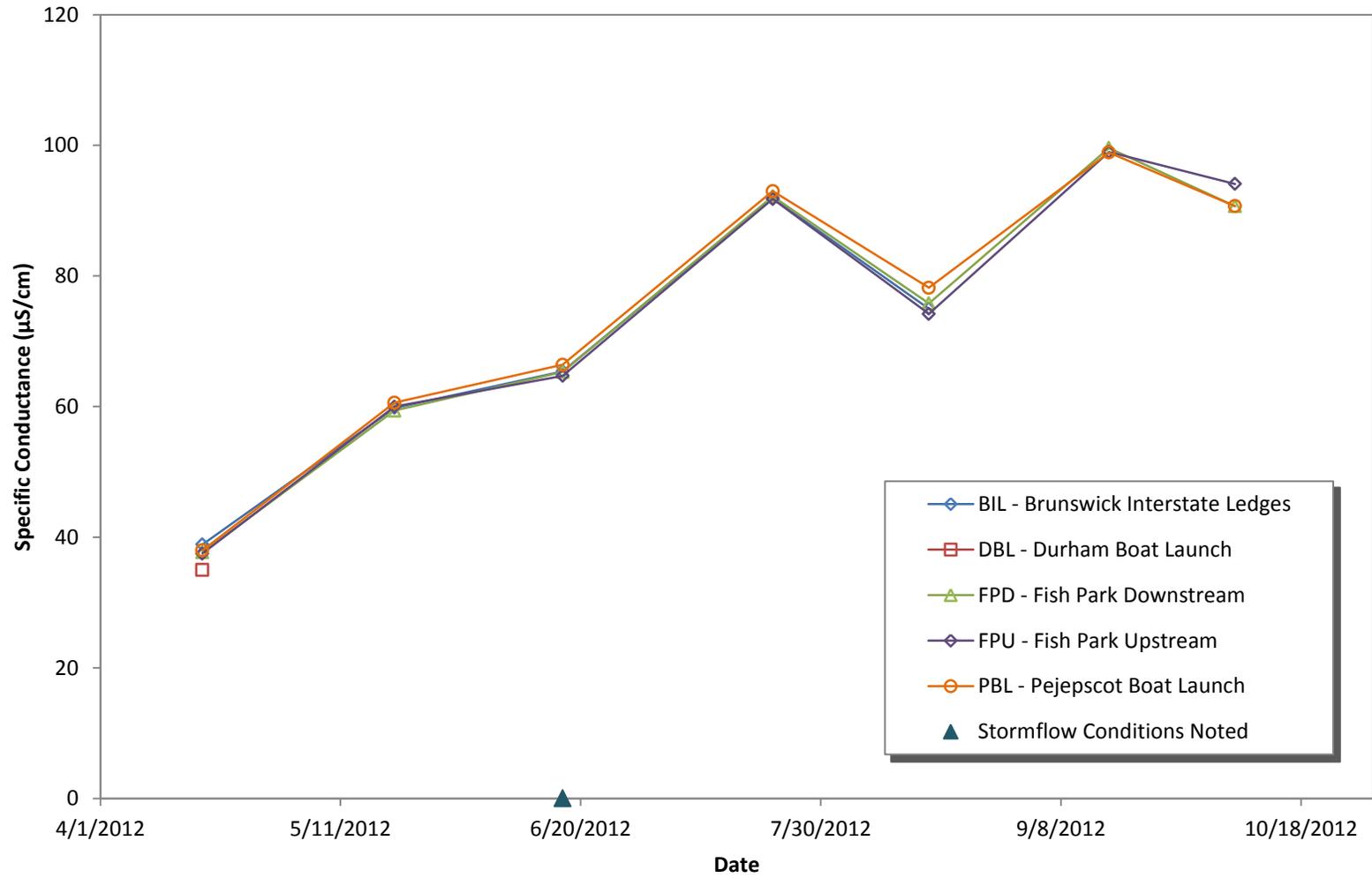
**Figure 5-2-7. Water temperatures of Friends of Merrymeeting Bay approved monitoring sites on the Androscoggin River for 2012**



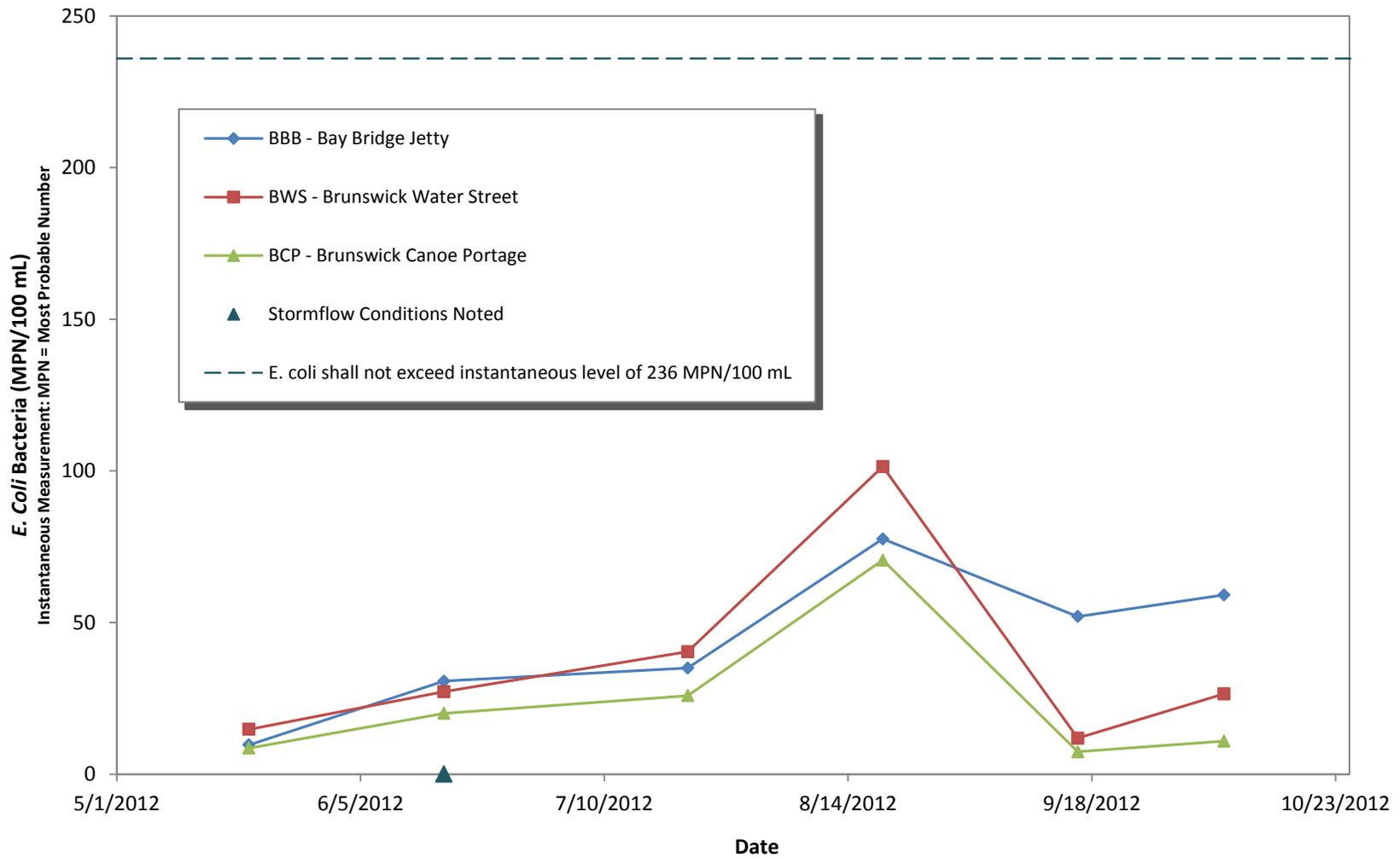
**Figure 5-2-8. Water temperatures at Friends of Merrymeeting Bay non-approved monitoring sites on the Androscoggin River for 2012**



**Figure 5-2-9. Specific Conductance at Friends of Merrymeeting Bay approved monitoring sites on the Androscoggin River for 2012**



**Figure 5-2-10. Specific conductance at Friends of Merrymeeting Bay non-approved monitoring sites on the Androscoggin River for 2012**



**Figure 5-2-11. *E. Coli* bacteria at Friends of Merrymeeting Bay approved monitoring sites on the Androscoggin River for 2012**

Appendix A-1. 2012 water quality data for "Approved" and "Non-Approved" sites. Non-Approved sites do not yet meet official VRMP sample location criteria and/or require further inspection and review.

\* Sampling depths are only reported for Tier 1 VRMP sites.

\*\* "N" = normal environmental sample ; "D" = field duplicate; "D.O." = dissolved oxygen; "Spec. Cond" = specific conductance; "Turb" = turbidity; "TSS" = total suspended solids"

Refer to Appendix A-2 for observational data and quality assurance/quality control (QA/QC) notes.

Organization Site Code	VRMP Site ID	Date	Time	** Sample Type Qualifier	* Sample Depth	Depth Unit	Water Temp (DEG C)	** D.O. Sat. (%)	** D.O. (MG/L)	** Spec. Cond. (US/CM)	Salinity (PPTH)	Turbidity (NTU)	** TSS (MG/L)	E Coli Bacteria (MPN/ 100ML)	Enterococci (MPN/ 100ML)
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**Androscoggin River, Friends of Merrymeeting Bay - Approved Sites:**

BBB - BAY															
BRIDGE JETTY	ANDROSCOGGIN RIVER - A231 - VRMP	5/20/2012	8:15 AM	N			16.2	99.9	9.8	59.9				9.7	
BBB	ANDROSCOGGIN RIVER - A231 - VRMP	6/17/2012	7:30 AM	N				86.1	8.1	58.3				30.7	
BBB	ANDROSCOGGIN RIVER - A231 - VRMP	7/22/2012	7:50 AM	N				87.2	7.25	90.4				35	
BBB	ANDROSCOGGIN RIVER - A231 - VRMP	8/19/2012	7:35 AM	N			20.7	83.5	7.22	72.6				77.6	
BBB	ANDROSCOGGIN RIVER - A231 - VRMP	9/16/2012	7:45 AM	N			19.6	84.8	7.6	108.4				52	
BBB	ANDROSCOGGIN RIVER - A231 - VRMP	10/7/2012	8:40 AM	N				103.5	10.33	94.3				59.1	
BBB	ANDROSCOGGIN RIVER - A231 - VRMP	10/7/2012	8:40 AM	D										59.1	
WSM - WATER STREET															
MOORING	ANDROSCOGGIN RIVER - A281 - VRMP	5/20/2012	7:45 AM	N			16.4	102.7	9.96	105.2				14.8	
WSM	ANDROSCOGGIN RIVER - A281 - VRMP	6/17/2012	7:45 AM	N										27.2	
WSM	ANDROSCOGGIN RIVER - A281 - VRMP	7/22/2012	7:20 AM	N			24.5	100.1	8.1	111.3				40.4	
WSM	ANDROSCOGGIN RIVER - A281 - VRMP	7/22/2012	7:20 AM	D										52.8	
WSM	ANDROSCOGGIN RIVER - A281 - VRMP	8/19/2012	7:12 AM	N			22.7	87.6	7.57	107.7				101.4	
WSM	ANDROSCOGGIN RIVER - A281 - VRMP	9/16/2012	7:10 AM	N			19.6	88.1	8.14	116				11.9	
WSM	ANDROSCOGGIN RIVER - A281 - VRMP	10/7/2012	8:10 AM	N			14.9	105.4	10.66	104.5				26.5	
BCP - BRUNSWICK CANOE															
PORTAGE	ANDROSCOGGIN RIVER - A299 - VRMP	5/20/2012	7:45 AM	N			16.1	101.1	9.8	53.8				8.6	
BCP	ANDROSCOGGIN RIVER - A299 - VRMP	6/17/2012	8:00 AM	N				90.7	8.7	59.4				20.1	
BCP	ANDROSCOGGIN RIVER - A299 - VRMP	6/17/2012	8:00 AM	D										24.1	
BCP	ANDROSCOGGIN RIVER - A299 - VRMP	7/22/2012	7:45 AM	N				83.4	7.1	80.7				25.9	
BCP	ANDROSCOGGIN RIVER - A299 - VRMP	8/19/2012	8:05 AM	N			23.4	86.8	7.4	72				70.6	
BCP	ANDROSCOGGIN RIVER - A299 - VRMP	9/16/2012	7:40 AM	N			20.1	85.1	7.6					7.4	
BCP	ANDROSCOGGIN RIVER - A299 - VRMP	10/7/2012	8:45 AM	N			15.1	84.7	8.52	85.6				10.9	

Organization Site Code	VRMP Site ID	Date	Time	** Sample Type Qualifier	* Sample Depth	Depth Unit	Water Temp (DEG C)	** D.O. Sat. (%)	** D.O. (MG/L)	** Spec. Cond. (US/CM)	Salinity (PPTH)	Turbidity (NTU)	** TSS (MG/L)	E Coli Bacteria (MPN/100ML)	Enterococci (MPN/100ML)
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**Androscoggin River, Friends of Merrymeeting Bay - Non-approved Sites:**

DBL - DURHAM BOAT LAUNCH	ANDROSCOGGIN RIVER - A158 - FOMB	4/18/2012	7:00 AM	N			4.8	112.8	14.5	35					
DBL	ANDROSCOGGIN RIVER - A158 - FOMB	4/18/2012	7:00 AM	D			4.8	112.8	14.5	35					
BIL - BRUNSWICK INTERSTATE LEDGES	ANDROSCOGGIN RIVER - A24 - FOMB	4/18/2012	8:00 AM	N			4.9	115.2	14.7	38.9					
BIL	ANDROSCOGGIN RIVER - A24 - FOMB	5/20/2012	8:00 AM	N			16.3	97.1	9.5	59.8					
BIL	ANDROSCOGGIN RIVER - A24 - FOMB	6/17/2012	8:00 AM	N			19.7	94.9	8.7	65.4					
BIL	ANDROSCOGGIN RIVER - A24 - FOMB	7/22/2012	8:00 AM	N			24.9	89.7	7.4	91.9					
BIL	ANDROSCOGGIN RIVER - A24 - FOMB	8/17/2012	7:55 AM	N			23.4	87.7	7.5	75					
BIL	ANDROSCOGGIN RIVER - A24 - FOMB	8/17/2012	7:55 AM	D			23.4	87.7	7.5	75					
FPD - FISH PARK DOWNSTREAM															
M	ANDROSCOGGIN RIVER - A45 - FOMB	4/18/2012	7:45 AM	N			4.8	114.5	14.9	37.7					
FPD	ANDROSCOGGIN RIVER - A45 - FOMB	5/20/2012	7:45 AM	N			16.2	97	9.5	59.4					
FPD	ANDROSCOGGIN RIVER - A45 - FOMB	6/17/2012	7:40 AM	N			19.6	94	8.6	65.3					
FPD	ANDROSCOGGIN RIVER - A45 - FOMB	7/22/2012	7:45 AM	N			25.2	91.2	7.5	92.2					
FPD	ANDROSCOGGIN RIVER - A45 - FOMB	7/22/2012	7:45 AM	D			25.2	91.2	7.5	92.2					
FPD	ANDROSCOGGIN RIVER - A45 - FOMB	8/17/2012	7:30 AM	N			23.5	87.7	7.5	75.8					
FPD	ANDROSCOGGIN RIVER - A45 - FOMB	9/16/2012	7:30 AM	N			20.4	89.7	8.1	99.6					
FPD	ANDROSCOGGIN RIVER - A45 - FOMB	10/7/2012	7:45 AM	N			15.2	93.2	9.1	90.7					
FPU - FISH PARK UPSTREAM															
	ANDROSCOGGIN RIVER - A47 - FOMB	4/18/2012	7:30 AM	N			4.7	111.6	14.4	37.5					
FPU	ANDROSCOGGIN RIVER - A47 - FOMB	5/20/2012	7:30 AM	N			16.2	97.2	9.5	60					
FPU	ANDROSCOGGIN RIVER - A47 - FOMB	6/17/2012	7:25 AM	N			19.6	94.4	8.7	64.7					
FPU	ANDROSCOGGIN RIVER - A47 - FOMB	6/17/2012	7:25 AM	D			19.8	94.4	8.7	64.7					
FPU	ANDROSCOGGIN RIVER - A47 - FOMB	7/22/2012	7:30 AM	N			25.1	91.2	7.5	91.8					
FPU	ANDROSCOGGIN RIVER - A47 - FOMB	8/17/2012	7:20 AM	N			23.3	88.1	7.5	74.2					
FPU	ANDROSCOGGIN RIVER - A47 - FOMB	9/16/2012	7:20 AM	N			20.4	89.1	8.1	99					
FPU	ANDROSCOGGIN RIVER - A47 - FOMB	10/7/2012	7:25 AM	N			15.2	91.7	9.1	94.1					
FPU	ANDROSCOGGIN RIVER - A47 - FOMB	10/7/2012	7:25 AM	D			15.2	91.7	9.1	94.1					

Organization Site Code	VRMP Site ID	Date	Time	** Sample Type Qualifier	* Sample Depth	Depth Unit	Water Temp (DEG C)	** D.O. Sat. (%)	** D.O. (MG/L)	** Spec. Cond. (US/CM)	Salinity (PPTH)	Turbidity (NTU)	** TSS (MG/L)	E Coli Bacteria (MPN/100ML)	Enterococci (MPN/100ML)
PBL - PEJEPSCOT BOAT LAUNCH	ANDROSCOGGIN RIVER - A71 - FOMB	4/18/2012	6:30 AM	N			5.1	111.5	14.2	38					
PBL	ANDROSCOGGIN RIVER - A71 - FOMB	5/20/2012	7:00 AM	N			15.9	97	9.6	60.6					
PBL	ANDROSCOGGIN RIVER - A71 - FOMB	5/20/2012	7:00 AM	D			15.9	97	9.6	60.6					
PBL	ANDROSCOGGIN RIVER - A71 - FOMB	6/17/2012	7:00 AM	N			19	94	8.7	66.4					
PBL	ANDROSCOGGIN RIVER - A71 - FOMB	7/22/2012	7:05 AM	N			25.3	93.6	7.7	93					
PBL	ANDROSCOGGIN RIVER - A71 - FOMB	8/17/2012	7:00 AM	N			22.9	87.6	7.5	78.2					
PBL	ANDROSCOGGIN RIVER - A71 - FOMB	9/16/2012	6:55 AM	N			20	91	8.3	98.9					
PBL	ANDROSCOGGIN RIVER - A71 - FOMB	9/16/2012	6:55 AM	D			20	91	8.3	98.9					
PBL	ANDROSCOGGIN RIVER - A71 - FOMB	10/7/2012	7:05 AM	N			14.5	97.8	9.1	90.7					

Appendix A-2. 2012 observational data and quality assurance/quality control (QA/QC) notes for "approved" and "non-approved" sites.  
 \*\* "N" = normal environmental sample; "D" = field duplicate; "L" = lab duplicate; "D.O." = dissolved oxygen; "Spec. Cond" = specific conductance; "Turb"= turbidity  
 Refer to Appendix A-1 for water quality data

Organization Site Code	VRMP Site ID	Date	Time	** Sample Type Qualifier	Flow	Stage	Air Temp (°C)	Sample Location	Current Weather	Air Condition	Past 24HR Weather	Habitat	Tide Stage	Water Appearance	Comments
<b>Androscoggin River, Friends of Merrymeeting Bay - Approved Sites:</b>															
BBB - BAY BRIDGE JETTY	ANDROSCOGGIN RIVER - A231 - VRMP	5/20/2012	8:15 AM	N	BASE FLOW	MED	19	BANK	CLEAR	CALM	CLEAR			DARKLY STAINED	NON-WADEABLE/MID-DEPTH DID NOT COMPLETE LAB PARAMETERS TO BE SAMPLED PORTION OF VRMP FIELD DATA SHEETS.
BBB	ANDROSCOGGIN RIVER - A231 - VRMP	6/17/2012	7:30 AM	N	STORM FLOW	HIGH		WADING	CLEAR	CALM	CLEAR			DARKLY STAINED	EXTREMELY HIGH WATER & SIGNIFICANT FRESET NO VERTICAL DEPTH RECORDED. NO VALUE FOR WATER TEMPERATURE. D.O. METER-DID NOT ALLOW TO WARM UP FOR AT LEAST 20 MINUTES (15 MINS). DID NOT COMPLETE LAB PARAMETERS TO BE SAMPLED PORTION OF VRMP FIELD DATA SHEETS NON-WADEABLE/MID-DEPTH NO VALUE FOR WATER TEMPERATURE. DID NOT COMPLETE LAB PARAMETERS TO BE SAMPLED PORTION OF VRMP FIELD DATA SHEETS.
BBB	ANDROSCOGGIN RIVER - A231 - VRMP	7/22/2012	7:50 AM	N	BASE FLOW	MED	20.9	BANK	PARTLY CLOUDY	CALM	CLEAR			DARKLY STAINED	NON-WADEABLE/MID-DEPTH DID NOT COMPLETE LAB PARAMETERS TO BE SAMPLED PORTION OF VRMP FIELD DATA SHEETS.
BBB	ANDROSCOGGIN RIVER - A231 - VRMP	8/19/2012	7:35 AM	N		MED		BANK	CLEAR	BREEZE	HEAVY RAIN, LIGHT RAIN			DARKLY STAINED	NON-WADEABLE/MID-DEPTH DID NOT COMPLETE LAB PARAMETERS TO BE SAMPLED PORTION OF VRMP FIELD DATA SHEETS.
BBB	ANDROSCOGGIN RIVER - A231 - VRMP	9/16/2012	7:45 AM	N	BASE FLOW	MED		BANK	CLEAR	BREEZE				DARKLY STAINED	NON-WADEABLE/MID-DEPTH DID NOT COMPLETE LAB PARAMETERS TO BE SAMPLED PORTION OF VRMP FIELD DATA SHEETS.
BBB	ANDROSCOGGIN RIVER - A231 - VRMP	10/7/2012	8:40 AM	N	BASE FLOW	MED	12	BANK	PARTLY CLOUDY					DARKLY STAINED	NON-WADEABLE/MID-DEPTH NO VALUE FOR WATER TEMPERATURE. DID NOT COMPLETE LAB PARAMETERS TO BE SAMPLED PORTION OF VRMP FIELD DATA SHEETS.
BBB	ANDROSCOGGIN RIVER - A231 - VRMP	10/7/2012	8:40 AM	D				BANK							NON-WADEABLE/MID-DEPTH NO VALUE FOR WATER TEMPERATURE. DID NOT COMPLETE LAB PARAMETERS TO BE SAMPLED PORTION OF VRMP FIELD DATA SHEETS.
WSM - WATER STREET	ANDROSCOGGIN RIVER - A281 - VRMP	5/20/2012	7:45 AM	N	BASE FLOW	MED	19	BANK	CLEAR	CALM	CLEAR			DARKLY STAINED	NON-WADEABLE/MID-DEPTH DO TITRATION = 9.3, 9.4 AND 9.2. DID NOT COMPLETE LAB PARAMETERS TO BE SAMPLED PORTION OF VRMP FIELD DATA SHEETS.
WSM	ANDROSCOGGIN RIVER - A281 - VRMP	6/17/2012	7:45 AM	N											NON-WADEABLE/MID-DEPTH NO FIELD SHEET SO ONLY ENTERED BACTERIA RESULTS. DID NOT COMPLETE LAB PARAMETERS TO BE SAMPLED PORTION OF VRMP FIELD DATA SHEETS.
WSM	ANDROSCOGGIN RIVER - A281 - VRMP	7/22/2012	7:20 AM	N	BASE FLOW	MED	20.7	BANK	PARTLY CLOUDY	CALM	CLEAR			DARKLY STAINED	NON-WADEABLE/MID-DEPTH D.O. TITRATION=7.7 AND 7.8 DID NOT COMPLETE LAB PARAMETERS TO BE SAMPLED PORTION OF VRMP FIELD DATA SHEETS.
WSM	ANDROSCOGGIN RIVER - A281 - VRMP	7/22/2012	7:20 AM	D				BANK							NON-WADEABLE/MID-DEPTH D.O. TITRATION=7.7 AND 7.8 DID NOT COMPLETE LAB PARAMETERS TO BE SAMPLED PORTION OF VRMP FIELD DATA SHEETS.
WSM	ANDROSCOGGIN RIVER - A281 - VRMP	8/19/2012	7:12 AM	N		MED		BANK	CLEAR	CALM	HEAVY RAIN, LIGHT RAIN			DARKLY STAINED	COOL RAIN FOR DAYS BEFORE. NON-WADEABLE/MID-DEPTH DO TITRATION = 7.4 AND 7.6. DID NOT COMPLETE LAB PARAMETERS TO BE SAMPLED PORTION OF VRMP FIELD DATA SHEETS.
WSM	ANDROSCOGGIN RIVER - A281 - VRMP	9/16/2012	7:10 AM	N	BASE FLOW	MED		BANK	CLEAR	BREEZE				DARKLY STAINED	NON-WADEABLE/MID-DEPTH DID NOT COMPLETE LAB PARAMETERS TO BE SAMPLED PORTION OF VRMP FIELD DATA SHEETS.
WSM	ANDROSCOGGIN RIVER - A281 - VRMP	10/7/2012	8:10 AM	N	BASE FLOW	MED	11.5	BANK	PARTLY CLOUDY					DARKLY STAINED	NO RAIN, COLD NON-WADEABLE/MID-DEPTH D.O. TITRATION = 8.8, 8.6 AND 8.7. DID NOT COMPLETE LAB PARAMETERS TO BE SAMPLED PORTION OF VRMP FIELD DATA SHEETS.
BCP - BRUNSWICK CANOE PORTAGE	ANDROSCOGGIN RIVER - A299 - VRMP	5/20/2012	7:45 AM	N	BASE FLOW		16.1	WADING	CLEAR	CALM	CLEAR			DARKLY STAINED	WADEABLE/1.5 FT BELOW SURFACE DID NOT COMPLETE LAB PARAMETERS TO BE SAMPLED PORTION OF VRMP FIELD DATA SHEETS.
BCP	ANDROSCOGGIN RIVER - A299 - VRMP	6/17/2012	8:00 AM	N	STORM FLOW	HIGH		WADING	CLEAR	CALM	CLEAR			DARKLY STAINED	D.O. METER- DID NOT ALLOW TO WARM UP AT LEAST 20 MINUTES (15 MIN). NO VERTICAL DEPTH RECORDED. NO VALUE FOR WATER TEMP. DID NOT COMPLETE LAB PARAMETERS TO BE SAMPLED PORTION OF VRMP FIELD DATA SHEETS.
BCP	ANDROSCOGGIN RIVER - A299 - VRMP	6/17/2012	8:00 AM	D				WADING							D.O. METER- DID NOT ALLOW TO WARM UP AT LEAST 20 MINUTES (15 MIN). NO VERTICAL DEPTH RECORDED. NO VALUE FOR WATER TEMP. DID NOT COMPLETE LAB PARAMETERS TO BE SAMPLED PORTION OF VRMP FIELD DATA SHEETS.

Organization Site Code	VRMP Site ID	Date	Time	** Sample Type Qualifier	Flow	Stage	Air Temp (°C)	Sample Location	Current Weather	Air Condition	Past 24HR Weather	Habitat	Tide Stage	Water Appearance	Comments
BCP	ANDROSCOGGIN RIVER - A299 - VRMP	7/22/2012	7:45 AM	N	BASE FLOW	LOW	19.9	WADING	CLEAR	CALM	CLEAR	RUN		DARKLY STAINED	WADEABLE/1.5 FT BELOW SURFACE D.O. METER- DID NOT ALLOW TO WARM UP AT LEAST 20 MINUTES (15 MIN). NO VALUE FOR WATER TEMP. DID NOT COMPLETE LAB PARAMETERS TO BE SAMPLED PORTION OF VRMP FIELD DATA SHEETS.
BCP	ANDROSCOGGIN RIVER - A299 - VRMP	8/19/2012	8:05 AM	N	BASE FLOW	MED	21	BANK	CLEAR		HEAVY RAIN, LIGHT RAIN	RUN		DARKLY STAINED	COOL RAIN SEVERAL DAYS BEFORE. NON-WADEABLE/MID-DEPTH DID NOT COMPLETE LAB PARAMETERS TO BE SAMPLED PORTION OF VRMP FIELD DATA SHEETS. NO VERTICAL DEPTH RECORDED. DID NOT COMPLETE LAB PARAMETERS TO BE SAMPLED PORTION OF VRMP FIELD DATA SHEETS.
BCP	ANDROSCOGGIN RIVER - A299 - VRMP	9/16/2012	7:40 AM	N	BASE FLOW	LOW	13.9	WADING	CLEAR	CALM	CLEAR	RUN		DARKLY STAINED	
BCP	ANDROSCOGGIN RIVER - A299 - VRMP	10/7/2012	8:45 AM	N	BASE FLOW	LOW		WADING	CLEAR	CALM	CLEAR	RUN		DARKLY STAINED	WADEABLE/MID-DEPTH DID NOT COMPLETE LAB PARAMETERS TO BE SAMPLED PORTION OF VRMP FIELD DATA SHEETS.

**Androscoggin River, Friends of Merrymeeting Bay - Non-approved Sites:**

DBL - DURHAM BOAT LAUNCH	ANDROSCOGGIN RIVER - A158 - FOMB	4/18/2012	7:00 AM	N			5	BANK	CLEAR		CLEAR, HEAVY RAIN				NON-WADEABLE/MID-DEPTH D.O METER-DID NOT ALLOW TO WARM UP FOR AT LEAST 20 MINUTES (15 MINS). DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
DBL BIL - BRUNSWICK INTERSTATE LEDGES	ANDROSCOGGIN RIVER - A158 - FOMB	4/18/2012	7:00 AM	D				BANK							NON-WADEABLE/MID-DEPTH D.O METER-DID NOT ALLOW TO WARM UP FOR AT LEAST 20 MINUTES (15 MINS). DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
BIL	ANDROSCOGGIN RIVER - A24 - FOMB	4/18/2012	8:00 AM	N			6.5	BANK	CLEAR		CLEAR, HEAVY RAIN				NON-WADEABLE/MID-DEPTH D.O METER-DID NOT ALLOW TO WARM UP FOR AT LEAST 20 MINUTES (15 MINS). DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
BIL	ANDROSCOGGIN RIVER - A24 - FOMB	5/20/2012	8:00 AM	N			14.5	BANK	CLEAR	CALM	CLEAR				WADEABLE/1.5 FT BELOW SURFACE D.O METER-DID NOT ALLOW TO WARM UP FOR AT LEAST 20 MINUTES (TIME NOT RECORDED)? WINKLER D.O. = 9.4 DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
BIL	ANDROSCOGGIN RIVER - A24 - FOMB	6/17/2012	8:00 AM	N			14.5	WADING	CLEAR	CALM	CLEAR				WADEABLE/1.5 FT BELOW SURFACE DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
BIL	ANDROSCOGGIN RIVER - A24 - FOMB	7/22/2012	8:00 AM	N			20	BANK	CLEAR, PARTLY CLOUDY	CALM	CLEAR, PARTLY CLOUDY				WADEABLE/1.5 FT BELOW SURFACE DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
BIL	ANDROSCOGGIN RIVER - A24 - FOMB	8/17/2012	7:55 AM	N			17.5	WADING		CALM	CLEAR				WADEABLE/1.5 FT BELOW SURFACE D.O. TITRATION = 7.4 DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
BIL FPD - FISH PARK DOWNSTREAM	ANDROSCOGGIN RIVER - A24 - FOMB	8/17/2012	7:55 AM	D				WADING							WADEABLE/1.5 FT BELOW SURFACE D.O. TITRATION = 7.4 DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
FPD	ANDROSCOGGIN RIVER - A45 - FOMB	4/18/2012	7:45 AM	N			6.5	BANK	CLEAR		CLEAR, HEAVY RAIN				NON-WADEABLE/MID-DEPTH D.O METER-DID NOT ALLOW TO WARM UP FOR AT LEAST 20 MINUTES (15 MINS). DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
FPD	ANDROSCOGGIN RIVER - A45 - FOMB	5/20/2012	7:45 AM	N			14.5	BANK	CLEAR	CALM	CLEAR				NON-WADEABLE/3 FT BELOW SURFACE D.O METER-DID NOT ALLOW TO WARM UP FOR AT LEAST 20 MINUTES (TIME NOT RECORDED)? WINKLER D.O. = 9.4 DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
FPD	ANDROSCOGGIN RIVER - A45 - FOMB	6/17/2012	7:40 AM	N			11.5	BANK	CLEAR	CALM	CLEAR				NON-WADEABLE/3 FT BELOW SURFACE DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
FPD	ANDROSCOGGIN RIVER - A45 - FOMB	7/22/2012	7:45 AM	N			18.5	BANK	CLEAR, PARTLY CLOUDY	CALM	CLEAR, PARTLY CLOUDY				NON-WADEABLE/3 FT BELOW SURFACE DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
FPD	ANDROSCOGGIN RIVER - A45 - FOMB	7/22/2012	7:45 AM	D				BANK							NON-WADEABLE/3 FT BELOW SURFACE DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
FPD	ANDROSCOGGIN RIVER - A45 - FOMB	8/17/2012	7:30 AM	N			15	BANK		CALM	CLEAR				WADEABLE/MID-DEPTH DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
FPD	ANDROSCOGGIN RIVER - A45 - FOMB	9/16/2012	7:30 AM	N			11	BANK	CLEAR		CLEAR, CLOUDY, LIGHT RAIN, PARTLY CLOUDY				NON-WADEABLE/3 FT BELOW SURFACE DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.

Organization Site Code	VRMP Site ID	Date	Time	** Sample Type Qualifier	Flow	Stage	Air Temp (°C)	Sample Location	Current Weather	Air Condition	Past 24HR Weather	Habitat	Tide Stage	Water Appearance	Comments
FPD	ANDROSCOGGIN RIVER - A45 - FOMB	10/7/2012	7:45 AM	N			4.5	BANK	CLEAR, FOGGY	CALM	CLEAR, LIGHT RAIN, SHOWERS				WADEABLE/1.5 FT BELOW SURFACE DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
FPU - FISH PARK UPSTREAM	ANDROSCOGGIN RIVER - A47 - FOMB	4/18/2012	7:30 AM	N			6.5	BANK	CLEAR	CALM	CLEAR, HEAVY RAIN				NON-WADEABLE/MID-DEPTH D.O METER-DID NOT ALLOW TO WARM UP FOR AT LEAST 20 MINUTES (15 MINS). DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
FPU	ANDROSCOGGIN RIVER - A47 - FOMB	5/20/2012	7:30 AM	N			14.5	BANK	CLEAR	CALM	CLEAR				NON-WADEABLE/3 FT BELOW SURFACE D.O METER-DID NOT ALLOW TO WARM UP FOR AT LEAST 20 MINUTES (TIME NOT RECORDED)? DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
FPU	ANDROSCOGGIN RIVER - A47 - FOMB	6/17/2012	7:25 AM	N			11	BANK	CLEAR	CALM	CLEAR				NON-WADEABLE/3 FT BELOW SURFACE DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
FPU	ANDROSCOGGIN RIVER - A47 - FOMB	6/17/2012	7:25 AM	D				BANK							NON-WADEABLE/3 FT BELOW SURFACE DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
FPU	ANDROSCOGGIN RIVER - A47 - FOMB	7/22/2012	7:30 AM	N			18	BANK	CLEAR, PARTLY CLOUDY	CALM	CLEAR, PARTLY CLOUDY				NON-WADEABLE/3 FT BELOW SURFACE DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
FPU	ANDROSCOGGIN RIVER - A47 - FOMB	8/17/2012	7:20 AM	N			15	BANK		CALM	CLEAR				WADEABLE/MID-DEPTH DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
FPU	ANDROSCOGGIN RIVER - A47 - FOMB	9/16/2012	7:20 AM	N			9	BANK	CLEAR		CLEAR, CLOUDY, LIGHT RAIN, PARTLY CLOUDY				NON-WADEABLE/3 FT BELOW SURFACE DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
FPU	ANDROSCOGGIN RIVER - A47 - FOMB	10/7/2012	7:25 AM	N			4	BANK	CLEAR, FOGGY	CALM	CLEAR, LIGHT RAIN, SHOWERS				WADEABLE/1.5 FT BELOW SURFACE DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
FPU PBL - PEJEPSCOT BOAT LAUNCH	ANDROSCOGGIN RIVER - A47 - FOMB	10/7/2012	7:25 AM	D				BANK							WADEABLE/1.5 FT BELOW SURFACE DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
PBL	ANDROSCOGGIN RIVER - A71 - FOMB	4/18/2012	6:30 AM	N			5	BANK	CLEAR	CALM	CLEAR, HEAVY RAIN				NON-WADEABLE/MID-DEPTH D.O METER-DID NOT ALLOW TO WARM UP FOR AT LEAST 20 MINUTES (15 MINS). DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
PBL	ANDROSCOGGIN RIVER - A71 - FOMB	5/20/2012	7:00 AM	N			14.5	BANK	CLEAR	CALM	CLEAR				NON-WADEABLE/3 FT BELOW SURFACE D.O METER-DID NOT ALLOW TO WARM UP FOR AT LEAST 20 MINUTES (TIME NOT RECORDED)? WINKLER D.O. = 9.4 DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
PBL	ANDROSCOGGIN RIVER - A71 - FOMB	5/20/2012	7:00 AM	D				BANK							NON-WADEABLE/3 FT BELOW SURFACE D.O METER-DID NOT ALLOW TO WARM UP FOR AT LEAST 20 MINUTES (TIME NOT RECORDED)? WINKLER D.O. = 9.4 DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
PBL	ANDROSCOGGIN RIVER - A71 - FOMB	6/17/2012	7:00 AM	N			10.5	WADING	CLEAR, CLEAR, PARTLY CLOUDY	CALM	CLEAR, PARTLY CLOUDY				NON-WADEABLE/3 FT BELOW SURFACE DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
PBL	ANDROSCOGGIN RIVER - A71 - FOMB	7/22/2012	7:05 AM	N			18	WADING	CLEAR, PARTLY CLOUDY	CALM	CLEAR, PARTLY CLOUDY				NON-WADEABLE/3 FT BELOW SURFACE DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
PBL	ANDROSCOGGIN RIVER - A71 - FOMB	8/17/2012	7:00 AM	N			15	WADING		CALM	CLEAR				NON-WADEABLE/MID-DEPTH DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
PBL	ANDROSCOGGIN RIVER - A71 - FOMB	9/16/2012	6:55 AM	N			8.5	WADING	CLEAR		CLEAR, CLOUDY, LIGHT RAIN, PARTLY CLOUDY				NON-WADEABLE/3 FT BELOW SURFACE DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
PBL	ANDROSCOGGIN RIVER - A71 - FOMB	9/16/2012	6:55 AM	D				WADING							NON-WADEABLE/3 FT BELOW SURFACE DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.
PBL	ANDROSCOGGIN RIVER - A71 - FOMB	10/7/2012	7:05 AM	N			6	WADING	CLEAR, FOGGY	CALM	CLEAR, LIGHT RAIN, SHOWERS				WADEABLE/1.5 FT BELOW SURFACE DID NOT RECORD ANY OF THE OBSERVATIONAL DATA.