

4. **Article Two, B.5- Water Quality Monitoring (“WQM”) Plan – Report on whether any of the semi-annual (or annual) WQM required under Article Two, B.5, was conducted during the quarter, and if so, in which sewer basins, and report the results of that monitoring (both BST and fecal coliform) for each such sewer basin.**

The second (semi-annual) round of water quality samples was collected on September 20, 2007. Twenty of the twenty-six sewer basins were sampled. Results are presented below. Human source fecal bacteria were identified in one or more samples from fourteen sewer basins.

**Basins Subject to Semi-Annual Monitoring and Reporting Requirements:**

a. Broad Creek-	BST Results:	Fecal Bacteria Results: ( <i>Enterococcus</i> CFU/100mL)
BRC001 – downstream (Henson Creek)	<b>Human – 0% (0%)</b> Avian – 36% (34%) Canine – 11% (10%) Deer – 13% (14%) Misc. Wildlife – 24% (23%) Non-human Unknown – 16% (19%)	107 (100)
BRC002 – upstream (Henson Creek)	<b>Human – 0%</b> Avian – 33% Canine – 13% Deer – 12%	110

	Misc. Wildlife – 23% Non-human Unknown – 19%	
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Note: Values in parentheses for station BRC001 are for field duplicate sample.

**b. Cabin John-**

**Fecal Bacteria Results:**

**BST Results:**

(*Enterococcus* CFU/100mL)

CBJ001 – downstream	<b>Human – 0%</b> Avian – 38% Deer – 15% Misc. Wildlife – 31% Non-human Unknown – 16%	283
CBJ002 – upstream	<b>Human – 33%</b> Avian – 28% Deer – 11% Misc. Wildlife – 17% Non-human Unknown – 11%	255

**c. Horsepen-**

**Fecal Bacteria Results:**

**BST Results:**

(*Enterococcus* CFU/100mL)

HSP001 – downstream	<b>Human – 24%</b> Avian – 23% Canine – 9% Deer – 6% Horse – 19% Misc. Wildlife – 12% Non-human Unknown – 7%	2,433
HSP002 – upstream	<b>Human – 0%</b> Avian – 25% Canine – 10% Deer – 14% Horse – 21% Misc. Wildlife – 21% Non-human Unknown – 9%	252

**d. Indian Creek-**

**Fecal Bacteria Results:**

**BST Results:**

(*Enterococcus* CFU/100mL)

INC001 – downstream	<b>Human – 0%</b> Avian – 28% Canine – 11% Deer – 6% Horse – 15% Misc. Wildlife – 23% Non-human Unknown – 17%	28
INC002 – upstream	<b>Human – 0%</b> Avian – 33% Canine – 7%	222

	Deer – 3% Misc. Wildlife – 36% Non-human Unknown – 21%	
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**e. Little Falls-****Fecal Bacteria Results:****BST Results:***(Enterococcus CFU/100mL)*

LFS001 – downstream	<b>Human – 23% (21%)</b> Avian – 31% (27%) Canine – 6% (4%) Deer – 12% (15%) Misc. Wildlife – 23% (25%) Non-human Unknown – 5% (8%)	698 (657)
LFS002 – upstream	<b>Human – 31%</b> Avian – 21% Canine – 7% Deer – 12% Misc. Wildlife – 21% Non-human Unknown – 8%	1,993

Note: Values in parentheses for station LFS001 are for field duplicate sample.

**f. Lower Anacostia-****Fecal Bacteria Results:****BST Results:***(Enterococcus CFU/100mL)*

ANA001 – downstream	<b>Human – 36%</b> Avian – 21% Canine – 7% Deer – 9% Misc. Wildlife – 18% Non-human Unknown – 9%	367
ANA002 – upstream	<b>Human – 0%</b> Avian – 37% Canine – 6% Misc. Wildlife – 41% Non-human Unknown – 16%	23

**g. Lower Beaverdam Creek-****Fecal Bacteria Results:****BST Results:***(Enterococcus CFU/100mL)*

LBD001 – downstream	<b>Human – 14%</b> Avian – 27% Canine – 10% Deer – 12% Misc. Wildlife – 23% Non-human Unknown – 14%	333
LBD002 – upstream	<b>Human – 33%</b> Avian – 19% Canine – 7% Deer – 14%	1,420

	Misc. Wildlife – 21% Non-human Unknown – 6%	
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**h. Muddy Branch-****Fecal Bacteria Results:****BST Results:***(Enterococcus CFU/100mL)*

MDB001 – downstream	<b>Human – 0% (0%)</b> Avian – 32% (32%) Canine – 6% (5%) Deer – 11% (13%) Misc. Wildlife – 30% (31%) Non-human Unknown – 21% (19%)	365 (341)
MDB002 – upstream	<b>Human – 0%</b> Avian – 34% Deer – 16% Misc. Wildlife – 33% Non-human Unknown – 17%	197

Note: Values in parentheses for station MDB001 are for field duplicate sample.

**i. Northeast Branch-****Fecal Bacteria Results:****BST Results:***(Enterococcus CFU/100mL)*

NEB001 – upstream	<b>Human – 0%</b> Avian – 36% Canine – 7% Deer – 13% Misc. Wildlife – 33% Non-human Unknown – 11%	45
NEB002 – downstream	<b>Human – 0%</b> Avian – 34% Canine – 11% Misc. Wildlife – 38% Non-human Unknown – 17%	33

**j. Northwest Branch-****Fecal Bacteria Results:****BST Results:***(Enterococcus CFU/100mL)*

NWA001 – downstream	Too few bacteria for BST source determination	18
NWA002 – upstream	<b>Human – 21%</b> Avian – 20% Canine – 17% Deer – 11% Misc. Wildlife – 24% Non-human Unknown – 7%	358

<b>k. Oxon Run-</b>		<b>Fecal Bacteria Results:</b> ( <i>Enterococcus</i> CFU/100mL)
	<b>BST Results:</b>	
OXN001 – downstream	<b>Human – 0%</b> Avian – 29% Canine – 12% Deer – 15% Misc. Wildlife – 32% Non-human Unknown – 12%	232
OXN002 – upstream (Watts Branch)	<b>Human – 31%</b> Avian – 11% Canine – 14% Deer – 13% Misc. Wildlife – 24% Non-human Unknown – 7%	1,740

<b>l. Paint Branch-</b>		<b>Fecal Bacteria Results:</b> ( <i>Enterococcus</i> CFU/100mL)
	<b>BST Results:</b>	
PNT001 – downstream	<b>Human – 0%</b> Avian – 29% Canine – 12% Deer – 13% Misc. Wildlife – 32% Non-human Unknown – 14%	100
PNT002 – upstream	<b>Human – 0%</b> Avian – 34% Canine – 9% Deer – 16% Misc. Wildlife – 33% Non-human Unknown – 8%	393

<b>m. Parkway-</b>		<b>Fecal Bacteria Results:</b> ( <i>Enterococcus</i> CFU/100mL)
	<b>BST Results:</b>	
PKY001 – downstream (Bear Branch)	<b>Human – 0%</b> Avian – 33% Canine – 15% Deer – 19% Misc. Wildlife – 24% Non-human Unknown – 9%	930
PKY002 – upstream (Walker Branch)	<b>Human – 0%</b> Avian – 32% Canine – 12% Deer – 18% Misc. Wildlife – 21% Non-human Unknown – 17%	130

<b>n. Piscataway-</b>		<b>Fecal Bacteria Results:</b> ( <i>Enterococcus</i> CFU/100mL)
<b>BST Results:</b>		
PSW001 – downstream	<b>Human – 29%</b> Avian – 22% Deer – 15% Misc. Wildlife – 26% Non-human Unknown – 8%	463
PSW002 – upstream	<b>Human – 16%</b> Avian – 35% Deer – 13% Misc. Wildlife – 24% Non-human Unknown – 12%	92
<b>o. Rock Creek-</b>		<b>Fecal Bacteria Results:</b> ( <i>Enterococcus</i> CFU/100mL)
<b>BST Results:</b>		
RKC001 – downstream	<b>Human – 0%</b> Avian – 42% Deer – 17% Misc. Wildlife – 26% Non-human Unknown – 15%	105
RKC002 – upstream	<b>Human – 31%</b> Avian – 24% Deer – 13% Misc. Wildlife – 21% Non-human Unknown – 11%	207
<b>p. Seneca Creek-</b>		<b>Fecal Bacteria Results:</b> ( <i>Enterococcus</i> CFU/100mL)
<b>BST Results:</b>		
SNC001 – downstream	<b>Human – 35%</b> Avian – 22% Canine – 16% Deer – 15% Misc. Wildlife – 9% Non-human Unknown – 3%	145
SNC002 – upstream	<b>Human – 11%</b> Avian – 38% Canine – 7% Deer – 19% Misc. Wildlife – 16% Non-human Unknown – 9%	250

<b>q. Sligo Creek-</b>		<b>Fecal Bacteria Results:</b> ( <i>Enterococcus</i> CFU/100mL)
	<b>BST Results:</b>	
SLC001 – downstream	<b>Human – 32%</b> Avian – 23% Canine – 17% Deer – 13% Misc. Wildlife – 10% Non-human Unknown – 5%	550
SLC002 – upstream	<b>Human – 26%</b> Avian – 25% Canine – 14% Deer – 19% Misc. Wildlife – 11% Non-human Unknown – 5%	720

<b>r. Upper Beaverdam Creek-</b>		<b>Fecal Bacteria Results:</b> ( <i>Enterococcus</i> CFU/100mL)
	<b>BST Results:</b>	
UBD001 – downstream	<b>Human – 23%</b> Avian – 34% Deer – 15% Misc. Wildlife – 21% Non-human Unknown – 7%	455
UBD002 – upstream	<b>Human – 16%</b> Avian – 38% Deer – 11% Misc. Wildlife – 22% Non-human Unknown – 13%	202

<b>s. Watts Branch-</b>		<b>Fecal Bacteria Results:</b> ( <i>Enterococcus</i> CFU/100mL)
	<b>BST Results:</b>	
WTB001 – downstream	<b>Human – 31%</b> Avian – 31% Canine – 6% Deer – 12% Misc. Wildlife – 17% Non-human Unknown – 3%	705
WTB002 – upstream	<b>Human – 15%</b> Avian – 33% Deer – 18% Misc. Wildlife – 23% Non-human Unknown – 11%	328

**t. Western Branch-**

**BST Results:**

**Fecal Bacteria Results:**

*(Enterococcus CFU/100mL)*

WNB001 – downstream	<b>Human – 39% (42%)</b> Avian – 23% (22%) Deer – 13% (11%) Misc. Wildlife – 17% (16%) Non-human Unknown – 8% (9%)	247 (263)
WNB002 – upstream	<b>Human – 26%</b> Avian – 27% Canine – 5% Deer – 12% Misc. Wildlife – 19% Non-human Unknown – 11%	242

Note: Values in parentheses for station WNB001 are for field duplicate sample.

**Basins Subject to an Annual Monitoring and Reporting Requirements-**

**BST Results:**

**Fecal Bacteria Results:**

*(Enterococcus CFU/100mL)*

- a. Dulles Interceptor-**
- b. Mattawoman-**
- c. Monacacy-**
- d. Patuxent Center-**
- e. Patuxent North-**
- f. Rock Run-**