

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 17, 2008. 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 eighteen sewer basins.

A limited round of water quality samples, from four stations in the Anacostia River watershed was collected on November 19, 2008. Results will be reported in the First Quarter of 2009.

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

**a. Broad Creek-**

**Fecal Bacteria Results:**  
*(Enterococcus CFU/100mL)*

	<b>BST Results:</b>	
BRC001 – downstream (Henson Creek)	<b>Human – 8%</b> Avian – 37% Canine – 10% Deer – 9% Misc. Wildlife – 22% Non-human Unknown – 14%	203
BRC002 – upstream (Henson Creek)	<b>Human – 4%</b> Avian – 36% Canine – 14% Deer – 11% Misc. Wildlife – 19% Non-human Unknown – 16%	188

**b. Cabin John-**

**Fecal Bacteria Results:**  
*(Enterococcus CFU/100mL)*

		<b>BST Results:</b>	
CBJ001 – downstream	<b>Human – 17%</b> Avian – 30% Canine – 3% Deer – 10% Misc. Wildlife – 22% Non-human Unknown – 18%		203
CBJ002 – upstream	<b>Human – 4% (5%)</b> Avian – 35% (32%) Canine – 5% (8%) Deer – 17% (15%) Misc. Wildlife – 24% (25%) Non-human Unknown – 15% (15%)		58 (55)

Note: Values in parentheses for station CBJ002 are for field duplicate sample.

**c. Horsepen-**

**Fecal Bacteria Results:**  
*(Enterococcus CFU/100mL)*

		<b>BST Results:</b>	
HSP001 – downstream	<b>Human – 11%</b> Avian – 27% Canine – 6% Deer – 8% Horse – 15% Misc. Wildlife – 22% Non-human Unknown – 11%		425
HSP002 – upstream	<b>Human – 0%</b> Avian – 31% Canine – 5% Deer – 15% Horse – 17% Misc. Wildlife – 19% Non-human Unknown – 13%		45

<b>d. Indian Creek-</b>		<b>Fecal Bacteria Results:</b> ( <i>Enterococcus</i> CFU/100mL)
	<b>BST Results:</b>	
INC001 – downstream	<b>Human – 5%</b> Avian – 31% Canine – 9% Deer – 7% Horse – 12% Misc. Wildlife – 21% Non-human Unknown – 15%	88
INC002 – upstream	<b>Human – 19%</b> Avian – 29% Canine – 6% Deer – 6% Horse – 4% Misc. Wildlife – 23% Non-human Unknown – 13%	1185

<b>e. Little Falls-</b>		<b>Fecal Bacteria Results:</b> ( <i>Enterococcus</i> CFU/100mL)
	<b>BST Results:</b>	
LFS001 – downstream	<b>Human – 25%</b> Avian – 27% Canine – 9% Deer – 13% Misc. Wildlife – 17% Non-human Unknown – 9%	725
LFS002 – upstream	<b>Human – 16%</b> Avian – 26% Canine – 7% Deer – 11% Misc. Wildlife – 27% Non-human Unknown – 13%	573

<b>f. Lower Anacostia-</b>		<b>Fecal Bacteria Results:</b> ( <i>Enterococcus</i> CFU/100mL)
	<b>BST Results:</b>	
ANA001 – downstream	<b>Human – 5%</b> Avian – 33% Canine – 9% Deer – 14% Misc. Wildlife – 28% Non-human Unknown – 11%	43
ANA002 – upstream	<b>Human – 17%</b> Avian – 36% Canine – 7% Deer – 4% Misc. Wildlife – 23% Non-human Unknown – 13%	230

<b>g. Lower Beaverdam Creek-</b>		<b>Fecal Bacteria Results:</b>
<b>BST Results:</b>		<i>(Enterococcus CFU/100mL)</i>
LBD001 – downstream	<b>Human – 16%</b> Avian – 29% Canine – 7% Deer – 13% Misc. Wildlife – 23% Non-human Unknown – 12%	118
LBD002 – upstream	<b>Human – 36% (33%)</b> Avian – 23% (25%) Canine – 4% (2%) Deer – 11% (9%) Misc. Wildlife – 15% (18%) Non-human Unknown – 11% (13%)	305 (340)

Note: Values in parentheses for station LBD002 are for field duplicate sample.

<b>h. Muddy Branch-</b>		<b>Fecal Bacteria Results:</b>
<b>BST Results:</b>		<i>(Enterococcus CFU/100mL)</i>
MDB001 – downstream	<b>Human – 0%</b> Avian – 36% Canine – 4% Deer – 13% Misc. Wildlife – 31% Non-human Unknown – 16%	338
MDB002 – upstream	<b>Human – 0%</b> Avian – 32% Deer – 15% Misc. Wildlife – 35% Non-human Unknown – 18%	43

<b>i. Northeast Branch-</b>		<b>Fecal Bacteria Results:</b>
<b>BST Results:</b>		<i>(Enterococcus CFU/100mL)</i>
NEB001 – upstream	<b>Human – 12%</b> Avian – 37% Canine – 8% Deer – 14% Misc. Wildlife – 21% Non-human Unknown – 8%	270
NEB002 – downstream	<b>Human – 10%</b> Avian – 32% Canine – 10% Deer – 6% Misc. Wildlife – 29% Non-human Unknown – 13%	278

<b>j. Northwest Branch-</b>		<b>Fecal Bacteria Results:</b> ( <i>Enterococcus</i> CFU/100mL)
<b>BST Results:</b>		
NWA001 – downstream	<b>Human – 0%</b> Avian – 38% Canine – 6% Deer – 7% Misc. Wildlife – 29% Non-human Unknown – 20%	28
NWA002 – upstream	<b>Human – 15%</b> Avian – 28% Canine – 15% Deer – 8% Misc. Wildlife – 22% Non-human Unknown – 12%	463

<b>k. Oxon Run-</b>		<b>Fecal Bacteria Results:</b> ( <i>Enterococcus</i> CFU/100mL)
<b>BST Results:</b>		
OXN001 – downstream	<b>Human – 9% (7%)</b> Avian – 30% (31%) Canine – 10% (11%) Deer – 12% (10%) Misc. Wildlife – 28% (27%) Non-human Unknown – 11% (14%)	453 (460)
OXN002 – upstream (Watts Branch)	<b>Human – 33%</b> Avian – 24% Canine – 9% Deer – 7% Misc. Wildlife – 21% Non-human Unknown – 6%	665

Note: Values in parentheses for station OXN001 are for field duplicate sample.

<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 – 31% Canine – 10% Deer – 12% Misc. Wildlife – 31% Non-human Unknown – 16%	75
PNT002 – upstream	<b>Human – 0%</b> Avian – 30% Canine – 11% Deer – 14% Misc. Wildlife – 34% Non-human Unknown – 11%	145

<b>m. Parkway-</b>		<b>Fecal Bacteria Results:</b> ( <i>Enterococcus</i> CFU/100mL)
<b>BST Results:</b>		
PKY001 – downstream (Bear Branch)	<b>Human – 6%</b> Avian – 30% Canine – 13% Deer – 15% Misc. Wildlife – 23% Non-human Unknown – 13%	225
PKY002 – upstream (Walker Branch)	<b>Human – 9%</b> Avian – 27% Canine – 11% Deer – 16% Misc. Wildlife – 21% Non-human Unknown – 16%	290

<b>n. Piscataway-</b>		<b>Fecal Bacteria Results:</b> ( <i>Enterococcus</i> CFU/100mL)
<b>BST Results:</b>		
PSW001 – downstream	<b>Human – 23%</b> Avian – 27% Canine – 7% Deer – 12% Misc. Wildlife – 20% Non-human Unknown – 11%	355
PSW002 – upstream	<b>Human – 12%</b> Avian – 33% Canine – 4% Deer – 10% Misc. Wildlife – 28% Non-human Unknown – 13%	170

<b>o. Rock Creek-</b>		<b>Fecal Bacteria Results:</b> ( <i>Enterococcus</i> CFU/100mL)
<b>BST Results:</b>		
RKC001 – downstream	<b>Human – 22%</b> Avian – 29% Canine – 7% Deer – 14% Misc. Wildlife – 19% Non-human Unknown – 9%	443
RKC002 – upstream	<b>Human – 6% (5%)</b> Avian – 34% (35%) Canine – 3% (2%) Deer – 11% (13%) Misc. Wildlife – 28% (29%) Non-human Unknown – 18% (16%)	98 (90)

Note: Values in parentheses for station RKC002 are for field duplicate sample.

**p. Seneca Creek-** **Fecal Bacteria Results:**  
(*Enterococcus* CFU/100mL)

<b>BST Results:</b>		
SNC001 – downstream	<b>Human – 27%</b> Avian – 27% Canine – 12% Deer – 10% Misc. Wildlife – 18% Non-human Unknown – 6%	245
SNC002 – upstream	<b>Human – 14%</b> Avian – 29% Canine – 8% Deer – 11% Misc. Wildlife – 24% Non-human Unknown – 14%	173

**q. Sligo Creek-** **Fecal Bacteria Results:**  
(*Enterococcus* CFU/100mL)

<b>BST Results:</b>		
SLC001 – downstream	<b>Human – 31%</b> Avian – 25% Canine – 10% Deer – 11% Misc. Wildlife – 17% Non-human Unknown – 6%	483
SLC002 – upstream	<b>Human – 22%</b> Avian – 23% Canine – 11% Deer – 12% Misc. Wildlife – 19% Non-human Unknown – 13%	308

**r. Upper Beaverdam Creek-** **Fecal Bacteria Results:**  
(*Enterococcus* CFU/100mL)

<b>BST Results:</b>		
UBD001 – downstream	<b>Human – 19% (22%)</b> Avian – 27% (26%) Canine – 9% (7%) Deer – 13% (10%) Misc. Wildlife – 21% (23%) Non-human Unknown – 11% (12%)	495 (530)
UBD002 – upstream	<b>Human – 14%</b> Avian – 33% Canine – 6% Deer – 8% Misc. Wildlife – 24% Non-human Unknown – 15%	238

Note: Values in parentheses for station UBD001 are for field duplicate sample.

<b>s. Watts Branch-</b>		<b>Fecal Bacteria Results:</b> ( <i>Enterococcus</i> CFU/100mL)
	<b>BST Results:</b>	
WTB001 – downstream	<b>Human – 26%</b> Avian – 29% Canine – 7% Deer – 11% Misc. Wildlife – 21% Non-human Unknown – 6%	260
WTB002 – upstream	<b>Human – 13%</b> Avian – 30% Canine – 5% Deer – 12% Misc. Wildlife – 25% Non-human Unknown – 15%	375

<b>t. Western Branch-</b>		<b>Fecal Bacteria Results:</b> ( <i>Enterococcus</i> CFU/100mL)
	<b>BST Results:</b>	
WNB001 – downstream	<b>Human – 33%</b> Avian – 27% Canine – 8% Deer – 10% Misc. Wildlife – 18% Non-human Unknown – 4%	175
WNB002 – upstream	<b>Human – 28%</b> Avian – 24% Canine – 6% Deer – 9% Misc. Wildlife – 23% Non-human Unknown – 10%	188

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

	<b>BST Results:</b>	<b>Fecal Bacteria Results:</b> ( <i>Enterococcus</i> CFU/100mL)
<b>a. Dulles Interceptor-</b>		
<b>b. Mattawoman-</b>		
<b>c. Monacacy-</b>		
<b>d. Patuxent Center-</b>		
<b>e. Patuxent North-</b>		
<b>f. Rock Run-</b>		