

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 October 12, 2010. 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 10, 2010. Results will be reported in the First Quarter of 2011.

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)	Human – 6% Avian – 33% Canine – 12% Deer – 13% Misc. Wildlife – 13% Non-human Unknown – 23%	153

BRC002 – upstream (Henson Creek)	Human – 7% Avian – 32% Canine – 11% Deer – 14% Misc. Wildlife – 16% Non-human Unknown – 20%	218
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b. Cabin John-**Fecal Bacteria Results:****BST Results:***(Enterococcus CFU/100mL)*

CBJ001 – downstream	Human – 3% Avian – 33% Canine – 12% Deer – 2% Misc. Wildlife – 26% Non-human Unknown – 24%	217
CBJ002 – upstream	Human – 2% Avian – 32% Canine – 9% Deer – 11% Misc. Wildlife – 18% Non-human Unknown – 28%	203

c. Horsepen-**Fecal Bacteria Results:****BST Results:***(Enterococcus CFU/100mL)*

HSP001 – downstream	Human – 21% Avian – 19% Canine – 6% Deer – 13% Horse – 10% Misc. Wildlife – 17% Non-human Unknown – 14%	1,675
HSP002 – upstream	Human – 6% Avian – 28% Canine – 10% Deer – 9% Horse – 11% Misc. Wildlife – 21% Non-human Unknown – 15%	548

d. Indian Creek-**Fecal Bacteria Results:****BST Results:***(Enterococcus CFU/100mL)*

INC001 – downstream	Human – 0% Avian – 30% Canine – 9% Deer – 12% Misc. Wildlife – 26% Non-human Unknown – 23%	263
INC002 – upstream	Human – 6% Avian – 25% Canine – 10% Deer – 9% Misc. Wildlife – 23% Non-human Unknown – 27%	1,715

e. Little Falls-**Fecal Bacteria Results:****BST Results:***(Enterococcus CFU/100mL)*

LFS001 – downstream	Human – 12% Avian – 23% Canine – 14% Deer – 10% Misc. Wildlife – 17% Non-human Unknown – 24%	415
LFS002 – upstream	Human – 5% (4%) Avian – 29% (30%) Canine – 11% (10%) Deer – 6% (6%) Misc. Wildlife – 23% (23%) Non-human Unknown – 26% (27%)	560 (570)

Note: Values in parentheses for station LFS002 are for field duplicate sample.

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

ANA001 – downstream	Human – 0% Avian – 42% Canine – 6% Deer – 11% Misc. Wildlife – 21% Non-human Unknown – 20%	88
ANA002 – upstream	Human – 3% Avian – 36% Canine – 12% Deer – 8% Misc. Wildlife – 15% Non-human Unknown – 26%	105

g. Lower Beaverdam Creek-		Fecal Bacteria Results:
BST Results:		<i>(Enterococcus CFU/100mL)</i>
LBD001 – downstream	Human – 9% Avian – 23% Canine – 10% Deer – 9% Misc. Wildlife – 23% Non-human Unknown – 26%	450
LBD002 – upstream	Human – 24% Avian – 21% Canine – 7% Deer – 10% Misc. Wildlife – 21% Non-human Unknown – 17%	595

h. Muddy Branch-		Fecal Bacteria Results:
BST Results:		<i>(Enterococcus CFU/100mL)</i>
MDB001 – downstream	Human – 0% (0%) Avian – 32% (31%) Canine – 4% (6%) Deer – 9% (8%) Horse – 4% (4%) Misc. Wildlife – 23% (22%) Non-human Unknown – 28% (29%)	540 (525)
MDB002 – upstream	Human – 6% Avian – 24% Canine – 3% Deer – 11% Horse – 0% Misc. Wildlife – 21% Non-human Unknown – 35%	625

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

i. Northeast Branch-		Fecal Bacteria Results:
BST Results:		<i>(Enterococcus CFU/100mL)</i>
NEB001 – upstream	Human – 0% Avian – 24% Canine – 10% Deer – 14% Misc. Wildlife – 23% Non-human Unknown – 29%	193
NEB002 – downstream	Human – 0% Avian – 30% Canine – 8% Deer – 7% Misc. Wildlife – 28% Non-human Unknown – 27%	55

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

NWA001 – downstream	Human – 3% Avian – 33% Canine – 7% Deer – 6% Misc. Wildlife – 23% Non-human Unknown – 28%	218
NWA002 – upstream	Human – 21% Avian – 27% Canine – 11% Deer – 8% Misc. Wildlife – 21% Non-human Unknown – 12%	6,440

k. Oxon Run- Fecal Bacteria Results:
BST Results: (Enterococcus CFU/100mL)

OXN001 – downstream	Human – 7% Avian – 22% Canine – 9% Deer – 8% Misc. Wildlife – 26% Non-human Unknown – 28%	490
OXN002 – upstream (Watts Branch)	Human – 23% Avian – 19% Canine – 10% Deer – 7% Misc. Wildlife – 24% Non-human Unknown – 17%	1,483

l. Paint Branch- Fecal Bacteria Results:
BST Results: (Enterococcus CFU/100mL)

PNT001 – downstream	Human – 0% Avian – 26% Canine – 7% Deer – 14% Horse – 5% Misc. Wildlife – 21% Non-human Unknown – 27%	240
PNT002 – upstream	Human – 0% Avian – 28% Canine – 11% Deer – 9% Horse – 0% Misc. Wildlife – 30% Non-human Unknown – 22%	328

m. Parkway-		Fecal Bacteria Results: (<i>Enterococcus</i> CFU/100mL)
	BST Results:	
PKY001 – downstream (Bear Branch)	Human – 31% Avian – 19% Canine – 8% Deer – 10% Misc. Wildlife – 20% Non-human Unknown – 12%	1,395
PKY002 – upstream (Walker Branch)	Human – 16% (17%) Avian – 24% (25%) Canine – 9% (8%) Deer – 13% (12%) Misc. Wildlife – 22% (23%) Non-human Unknown – 16% (15%)	703 (695)

Note: Values in parentheses for station PKY002 are for field duplicate sample.

n. Piscataway-		Fecal Bacteria Results: (<i>Enterococcus</i> CFU/100mL)
	BST Results:	
PSW001 – downstream	Human – 12% Avian – 23% Canine – 6% Deer – 11% Misc. Wildlife – 22% Non-human Unknown – 26%	325
PSW002 – upstream	Human – 4% (3%) Avian – 27% (26%) Canine – 5% (6%) Deer – 9% (10%) Misc. Wildlife – 24% (23%) Non-human Unknown – 31% (32%)	193 (201)

Note: Values in parentheses for station PSW002 are for field duplicate sample.

o. Rock Creek-		Fecal Bacteria Results: (<i>Enterococcus</i> CFU/100mL)
	BST Results:	
RKC001 – downstream	Human – 19% Avian – 26% Canine – 7% Deer – 8% Misc. Wildlife – 18% Non-human Unknown – 22%	740
RKC002 – upstream	Human – 4% Avian – 29% Canine – 12% Deer – 11% Misc. Wildlife – 15% Non-human Unknown – 29%	53

p. Seneca Creek-

	BST Results:	Fecal Bacteria Results: (<i>Enterococcus</i> CFU/100mL)
SNC001 – downstream	Human – 14% Avian – 22% Canine – 6% Deer – 8% Horse – 9% Misc. Wildlife – 17% Non-human Unknown – 24%	363
SNC002 – upstream	Human – 21% Avian – 20% Canine – 3% Deer – 4% Horse – 7% Misc. Wildlife – 15% Non-human Unknown – 30%	975

q. Sligo Creek-

	BST Results:	Fecal Bacteria Results: (<i>Enterococcus</i> CFU/100mL)
SLC001 – downstream	Human – 15% Avian – 26% Canine – 14% Deer – 0% Misc. Wildlife – 20% Non-human Unknown – 25%	213
SLC002 – upstream	Human – 11% Avian – 29% Canine – 13% Deer – 0% Misc. Wildlife – 18% Non-human Unknown – 29%	323

r. Upper Beaverdam Creek-

	BST Results:	Fecal Bacteria Results: (<i>Enterococcus</i> CFU/100mL)
UBD001 – downstream	Human – 12% Avian – 23% Canine – 7% Deer – 12% Misc. Wildlife – 19% Non-human Unknown – 27%	70
UBD002 – upstream	Human – 17% Avian – 25% Canine – 9% Deer – 8% Misc. Wildlife – 18% Non-human Unknown – 23%	393

s. Watts Branch-		Fecal Bacteria Results: (<i>Enterococcus</i> CFU/100mL)
	BST Results:	
WTB001 – downstream	Human – 14% Avian – 20% Canine – 9% Deer – 12% Horse – 0% Misc. Wildlife – 20% Non-human Unknown – 25%	500
WTB002 – upstream	Human – 6% Avian – 22% Canine – 11% Deer – 11% Horse – 3% Misc. Wildlife – 18% Non-human Unknown – 29%	578

t. Western Branch-		Fecal Bacteria Results: (<i>Enterococcus</i> CFU/100mL)
	BST Results:	
WNB001 – downstream	Human – 24% Avian – 19% Canine – 6% Deer – 9% Misc. Wildlife – 14% Non-human Unknown – 28%	215
WNB002 – upstream	Human – 20% (21%) Avian – 18% (18%) Canine – 7% (6%) Deer – 4% (5%) Misc. Wildlife – 17% (16%) Non-human Unknown – 34% (34%)	310 (318)

Note: Values in parentheses for station WNB002 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-**