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 21, 2009. 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 18, 2009. Results will be reported in the First Quarter of 2010.

Basins Subject to Semi-Annual Monitoring and Reporting Requirements:

a. Broad Creek-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100mL)
BRC001 – downstream (Henson Creek)	**Human – 7%** Avian – 35% Canine – 13% Deer – 12% Misc. Wildlife – 19% Non-human Unknown – 14%	245
BRC002 – upstream (Henson Creek)	**Human – 10%** Avian – 36% Canine – 15% Deer – 13% Misc. Wildlife – 16% Non-human Unknown – 10%	162

b. Cabin John-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100mL)
CBJ001 – downstream	**Human – 8%** Avian – 35% Canine – 13% Deer – 0% Misc. Wildlife – 29% Non-human Unknown – 15%	110
CBJ002 – upstream	**Human – 19%** Avian – 29% Canine – 10% Deer – 12% Misc. Wildlife – 17% Non-human Unknown – 13%	270

c. Horsepen-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100mL)
HSP001 – downstream	**Human – 17%** Avian – 25% Canine – 7% Deer – 11% Horse – 13% Misc. Wildlife – 18% Non-human Unknown – 9%	650
HSP002 – upstream	**Human – [~~4%~~] 6%** Avian – [~~32%~~] 31% Canine – 9% Deer – [~~14%~~] 13% Horse – [~~15%~~] 12% Misc. Wildlife – [~~16%~~] 18% Non-human Unknown – [~~10%~~] 11%	270

Note: Amended values for station HSP002 were reported by the testing lab on 2/25/2010.

d. Indian Creek-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100mL)
INC001 – downstream	**Human – 0%** Avian – 32% Canine – 10% Deer – 11% Misc. Wildlife – 33% Non-human Unknown – 14%	120
INC002 – upstream	**Human – 0%** Avian – 30% Canine – 11% Deer – 14% Misc. Wildlife – 29% Non-human Unknown – 16%	282

e. Little Falls-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100mL)
LFS001 – downstream	**Human – 14%** Avian – 28% Canine – 15% Deer – 13% Misc. Wildlife – 19% Non-human Unknown – 11%	237
LFS002 – upstream	**Human – 7%** Avian – 31% Canine – 13% Deer – 3% Misc. Wildlife – 32% Non-human Unknown – 14%	435

f. Lower Anacostia-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100mL)
ANA001 – downstream	**Human – 6%** Avian – 41% Canine – 7% Deer – 13% Misc. Wildlife – 26% Non-human Unknown – 7%	30
ANA002 – upstream	**Human – 13%** Avian – 39% Canine – 10% Deer – 6% Misc. Wildlife – 21% Non-human Unknown – 11%	205

g. Lower Beaverdam Creek-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100mL)
LBD001 – downstream	**Human – 11%** Avian – 27% Canine – 9% Deer – 14% Misc. Wildlife – 26% Non-human Unknown – 13%	510
LBD002 – upstream	**Human – 31%** Avian – 20% Canine – 8% Deer – 13% Misc. Wildlife – 16% Non-human Unknown – 12%	662

h. Muddy Branch-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100mL)
MDB001 – downstream	**Human – 0%** Avian – 36% Canine – 6% Deer – 11% Horse – 9% Misc. Wildlife – 27% Non-human Unknown – 11%	360
MDB002 – upstream	**Human – 11%** Avian – 32% Canine – 8% Deer – 13% Horse – 0% Misc. Wildlife – 29% Non-human Unknown – 7%	500

i. Northeast Branch-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100mL)
NEB001 – upstream	**Human – [~~2%~~] 0%** Avian – [~~29%~~] 31% Canine – [~~12%~~] 13% Deer – [~~18%~~] 16% Misc. Wildlife – [~~27%~~] 25% Non-human Unknown – [~~12%~~] 15%	143
NEB002 – downstream	**Human – [~~6%~~] 3%** Avian – [~~34%~~] 35% Canine – [~~11%~~] 10% Deer – [~~5%~~] 4% Misc. Wildlife – [~~32%~~] 35% Non-human Unknown – [~~12%~~] 13%	15

Note: Amended values for stations NEB001 and NEB002 were reported by the testing lab on 2/25/2010.

j. Northwest Branch-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100mL)
NWA001 – downstream	**Human – 0%** Avian – 35% Canine – 8% Deer – 7% Misc. Wildlife – 27% Non-human Unknown – 23%	65
NWA002 – upstream	**Human – 11%** Avian – 29% Canine – 17% Deer – 9% Misc. Wildlife – 24% Non-human Unknown – 10%	260

k. Oxon Run-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100mL)
OXN001 – downstream	**Human – 11%** Avian – 27% Canine – 11% Deer – 9% Misc. Wildlife – 30% Non-human Unknown – 12%	283
OXN002 – upstream (Watts Branch)	**Human – 27%** Avian – 23% Canine – 12% Deer – 11% Misc. Wildlife – 22% Non-human Unknown – 5%	647

l. Paint Branch-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100mL)
PNT001 – downstream	**Human – 0%** Avian – 33% Canine – 9% Deer – 13% Horse – 9% Misc. Wildlife – 24% Non-human Unknown – 12%	225
PNT002 – upstream	**Human – 0%** Avian – 29% Canine – 12% Deer – 11% Horse – 0% Misc. Wildlife – 36% Non-human Unknown – 12%	205

m. Parkway-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100mL)
PKY001 – downstream (Bear Branch)	**Human – 13%** Avian – 29% Canine – 13% Deer – 11% Misc. Wildlife – 22% Non-human Unknown – 12%	355
PKY002 – upstream (Walker Branch)	**Human – 10%** Avian – 28% Canine – 12% Deer – 17% Misc. Wildlife – 19% Non-human Unknown – 14%	303

n. Piscataway-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100mL)
PSW001 – downstream	**Human – 14% (14%)** Avian – 29% (29%) Canine – 8% (8%) Deer – 13% (13%) Misc. Wildlife – 24% (24%) Non-human Unknown – 12% (12%)	200 (198)
PSW002 – upstream	**Human – 7%** Avian – 32% Canine – 9% Deer – 11% Misc. Wildlife – 26% Non-human Unknown – 15%	98

Note: Values in parentheses for station PSW001 are for field duplicate sample.

o. Rock Creek-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100mL)
RKC001 – downstream	**Human – 16%** Avian – 33% Canine – 8% Deer – 9% Misc. Wildlife – 21% Non-human Unknown – 13%	507
RKC002 – upstream	**Human – 0% (0%)** Avian – 34% (36%) Canine – 14% (15%) Deer – 13% (12%) Misc. Wildlife – 19% (18%) Non-human Unknown – 20% (19%)	128 (124)

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

p. Seneca Creek-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100mL)
SNC001 – downstream	**Human – 11%** Avian – 27% Canine – 13% Deer – 10% Horse – 11% Misc. Wildlife – 19% Non-human Unknown – 9%	120
SNC002 – upstream	**Human – 17%** Avian – 29% Canine – 7% Deer – 9% Horse – 6% Misc. Wildlife – 20% Non-human Unknown – 12%	588

q. Sligo Creek-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100mL)
SLC001 – downstream	**Human – 36%** Avian – 21% Canine – 18% Deer – 0% Misc. Wildlife – 18% Non-human Unknown – 7%	877
SLC002 – upstream	**Human – 29% (26%)** Avian – 19% (21%) Canine – 20% (14%) Deer – 0% (10%) Misc. Wildlife – 21% (21%) Non-human Unknown – 11% (8%)	848 (636)

Note: Values in parentheses for station SLC002 are for field duplicate sample.

r. Upper Beaverdam Creek-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100mL)
UBD001 – downstream	**Human – 13% (11%)** Avian – 29% (30%) Canine – 11% (11%) Deer – 14% (15%) Misc. Wildlife – 23% (21%) Non-human Unknown – 10% (12%)	373 (390)
UBD002 – upstream	**Human – 6%** Avian – 32% Canine – 13% Deer – 10% Misc. Wildlife – 23% Non-human Unknown – 16%	138

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

s. Watts Branch-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100mL)
WTB001 – downstream	**Human – 17%** Avian – 23% Canine – 11% Deer – 14% Horse – 0% Misc. Wildlife – 26% Non-human Unknown – 9%	400
WTB002 – upstream	**Human – 7%** Avian – 27% Canine – 13% Deer – 15% Horse – 7% Misc. Wildlife – 19% Non-human Unknown – 12%	183

t. Western Branch-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100mL)
WNB001 – downstream	**Human – 36% (37%)** Avian – 23% (24%) Canine – 9% (8%) Deer – 11% (13%) Horse – 4% (3%) Misc. Wildlife – 12% (11%) Non-human Unknown – 5% (4%)	199 (193)
WNB002 – upstream	**Human – 33%** Avian – 21% Canine – 8% Deer – 7% Horse – 0% Misc. Wildlife – 21% Non-human Unknown – 10%	285

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-