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 2010 annual round of water quality monitoring was conducted on April 13, 2010. All 26 of the sewer basins were sampled (semi-annual and annual). Human source fecal bacteria were identified in one or more samples from five sewer basins. Results are presented below.

A limited round of water quality samples, from four stations in the Anacostia River watershed, was collected on June 28, 2010. Quarterly sampling from one station in each of four sewer basins is supplemental to the annual and semi-annual sampling program. Results will be reported in the Third 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 – 16%** Avian – 33% Canine – 8% Deer – 9% Misc. Wildlife – 21% Non-human Unknown – 13%	725
BRC002 – upstream (Henson Creek)	**Human – 7%** Avian – 35% Canine – 12% Deer – 11% Misc. Wildlife – 20% Non-human Unknown – 15%	63

b. Cabin John-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100ml)
CBJ001 – downstream	**Human – 0%** Avian – 37% Canine – 3% Deer – 14% Misc. Wildlife – 21% Non-human Unknown – 25%	20
CBJ002 – upstream	**Human – 0%** Avian – 39% Canine – 4% Deer – 13% Misc. Wildlife – 26% Non-human Unknown – 18%	13

c. Horsepen-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100ml)
HSP001 – downstream	**Human – 18%** Avian – 26% Canine – 6% Deer – 12% Horse – 14% Misc. Wildlife – 14% Non-human Unknown – 10%	295
HSP002 – upstream	**Human – 5%** Avian – 28% Canine – 4% Deer – 14% Horse – 16% Misc. Wildlife – 17% Non-human Unknown – 16%	45

d. Indian Creek-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100ml)
INC001 – downstream	**Human – 0% (0%)** Avian – 32% (37%) Canine – 8% (8%) Deer –13% (10%) Horse – 15% (10%) Misc. Wildlife – 19% (23%) Non-human Unknown – 13% (12%)	13 (12)
INC002 – upstream	**Human – 0%** Avian – 36% Canine – 6% Deer – 10% Horse – 12%	25

	Misc. Wildlife – 21% Non-human Unknown – 15%	

Note: Values in parentheses for station INC001 are for field duplicate sample.

e. Little Falls-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100ml)
LFS001 – downstream	**Human – 0%** Avian – 33% Canine – 13% Deer – 14% Misc. Wildlife – 23% Non-human Unknown – 17%	35
LFS002 – upstream	**Human – 0%** Avian – 35% Canine – 12% Deer – 11% Misc. Wildlife – 29% Non-human Unknown – 13%	38

f. Lower Anacostia-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100ml)
ANA001 – downstream	**Human – 0%** Avian – 43% Canine – 9% Deer – 13% Misc. Wildlife – 26% Non-human Unknown – 9%	33
ANA002 – upstream	**Human – 0%** Avian – 40% Canine – 11% Deer – 11% Misc. Wildlife – 25% Non-human Unknown – 13%	25

g. Lower Beaverdam Creek-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100ml)
LBD001 – downstream	**Human – 3%** Avian – 31% Canine – 13% Deer – 9% Misc. Wildlife – 25% Non-human Unknown – 19%	43
LBD002 – upstream	**Human – 2%** Avian – 31% Canine – 15% Deer – 7%	48

	Misc. Wildlife – 27% Non-human Unknown – 18%	

h. Muddy Branch-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100ml)
MDB001 – downstream	**Human – 0%** Avian – 41% Canine – 7% Deer – 6% Misc. Wildlife – 25% Non-human Unknown – 21%	20
MDB002 – upstream	Too few bacteria for BST source determination	<10

i. Northeast Branch-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100ml)
NEB001 – upstream	**Human – 0%** Avian – 30% Canine – 11% Deer – 16% Misc. Wildlife – 30% Non-human Unknown – 13%	30
NEB002 – downstream	**Human – 0%** Avian – 32% Canine – 13% Deer – 12% Misc. Wildlife – 28% Non-human Unknown – 15%	20

j. Northwest Branch-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100ml)
NWA001 – downstream	**Human – 0%** Avian – 36% Canine – 9% Deer – 18% Misc. Wildlife – 25% Non-human Unknown – 12%	25
NWA002 – upstream	**Human – 0%** Avian – 41% Canine – 4% Deer – 13% Misc. Wildlife – 26% Non-human Unknown – 16%	30

k. Oxon Run-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100ml)
OXN001 – downstream	**Human – 0%** Avian – 39% Canine – 13% Deer – 7% Misc. Wildlife – 24% Non-human Unknown – 17%	15
OXN002 – upstream (Watts Branch)	**Human – 0%** Avian – 41% Canine – 11% Deer – 9% Misc. Wildlife – 26% Non-human Unknown – 13%	45

l. Paint Branch-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100ml)
PNT001 – downstream	**Human – 0%** Avian – 35% Canine – 12% Deer – 13% Horse – 4% Misc. Wildlife – 23% Non-human Unknown – 13%	20
PNT002 – upstream	**Human – 0%** Avian – 32% Canine – 12% Deer – 14% Horse – 0% Misc. Wildlife – 28% Non-human Unknown – 14%	40

m. Parkway-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100ml)
PKY001 – downstream (Bear Branch)	**Human – 0%** Avian – 42% Canine – 9% Deer – 8% Misc. Wildlife – 25% Non-human Unknown – 16%	33
PKY002 – upstream (Walker Branch)	**Human – 0%** Avian – 44% Canine – 10% Deer – 10% Misc. Wildlife – 24% Non-human Unknown – 12%	30

n. Piscataway-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100ml)
PSW001 – downstream	Too few bacteria for BST source determination	<10
PSW002 – upstream	**Human – 0%** Avian – 36% Canine – 8% Deer – 17% Misc. Wildlife – 24% Non-human Unknown – 15%	18

o. Rock Creek-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100ml)
RKC001 – downstream	Too few bacteria for BST source determination	<10
RKC002 – upstream	Too few bacteria for BST source determination	<10

p. Seneca Creek-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100ml)
SNC001 – downstream	Too few bacteria for BST source determination	<10
SNC002 – upstream	Too few bacteria for BST source determination	<10

q. Sligo Creek-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100ml)
SLC001 – downstream	Too few bacteria for BST source determination	<10
SLC002 – upstream	**Human – 0%** Avian – 36% Canine – 13% Deer – 4% Misc. Wildlife – 26% Non-human Unknown – 21%	23

r. Upper Beaverdam Creek-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100ml)
UBD001 – downstream	**Human – 0%** Avian – 30% Canine – 15% Deer – 14% Misc. Wildlife – 21% Non-human Unknown – 20%	28
UBD002 – upstream	**Human – 0%** Avian – 26%	15

	Canine – 12% Deer – 12% Misc. Wildlife – 27% Non-human Unknown – 23%	

s. Watts Branch-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100ml)
WTB001 – downstream	**Human – 4%** Avian – 35% Canine – 5% Deer – 14% Misc. Wildlife – 24% Non-human Unknown – 18%	95
WTB002 – upstream	Too few bacteria for BST source determination	<10

t. Western Branch-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100ml)
WNB001 – downstream	**Human – 3%** Avian – 41% Canine – 7% Deer – 8% Misc. Wildlife – 23% Non-human Unknown – 18%	63
WNB002 – upstream	**Human – 0%** Avian – 38% Canine – 10% Deer – 11% Misc. Wildlife – 25% Non-human Unknown – 16%	25

Basins Subject to Annual Monitoring and Reporting Requirements-

a. Dulles Interceptor-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100ml)
DSI001	**Human – 0%** Avian – 36% Canine – 11% Deer – 16% Misc. Wildlife – 27% Non-human Unknown – 10%	28

b. Mattawoman-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100ml)
MTW001	Too few bacteria for BST source determination	<10 (<10)

Note: Values in parentheses for station MTW001 are for field duplicate sample.

c. Monacacy-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100ml)
MCY001	Too few bacteria for BST source determination	<10 (<10)

Note: Values in parentheses for station MCY001 are for field duplicate sample.

d. Patuxent Center-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100ml)
PTC001 (Mill Branch)	**Human – 0% (0%)** Avian – 42% (41%) Canine – 3% (4%) Deer – 13% (11%) Misc. Wildlife – 29% (30%) Non-human Unknown – 13% (14%)	15 (14)

Note: Values in parentheses for station PTC001 are for field duplicate sample.

e. Patuxent North-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100ml)
PTN001 (Hawlings River)	**Human – 0%** Avian – 38% Canine – 12% Deer – 14% Misc. Wildlife – 23% Non-human Unknown – 13%	33

f. Rock Run-

	BST Results:	**Fecal Bacteria Results:** (*Enterococcus* CFU/100ml)
RCM001	Too few bacteria for BST source determination	<10 (<10)

Note: Values in parentheses for station RCM001 are for field duplicate sample.