

- 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 2009 annual round of water quality monitoring was conducted on March 24, 2009. All 26 of the sewer basins were sampled (semi-annual and annual). Human source fecal bacteria were identified in one or more samples from six 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 26, 2009. 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 2009.

Basins Subject to Semi-Annual Monitoring and Reporting Requirements:

a. Broad Creek-		Fecal Bacteria Results: (<i>Enterococcus</i> CFU/100ml)
	BST Results:	
BRC001 – downstream (Henson Creek)	Too few bacteria for BST source determination	<10
BRC002 – upstream (Henson Creek)	Too few bacteria for BST source determination	<10

b. Cabin John-		Fecal Bacteria Results: (<i>Enterococcus</i> CFU/100ml)
	BST Results:	
CBJ001 – downstream	Too few bacteria for BST source determination	<10
CBJ002 – upstream	Too few bacteria for BST source determination	<10

c. Horsepen-		Fecal Bacteria Results: (<i>Enterococcus</i> CFU/100ml)
	BST Results:	
HSP001 – downstream	Human – 11% (13%) Avian – 25% (26%) Canine – 7% (6%) Deer – 11% (9%) Horse – 19% (21%) Misc. Wildlife – 18% (16%) Non-human Unknown – 9% (9%)	2,276 (2,253)
HSP002 – upstream	Human – 4% Avian – 32% Canine – 9% Deer – 14% Horse – 15% Misc. Wildlife – 16% Non-human Unknown – 10%	78

Note: Values in parentheses for station HSP001 are for field duplicate sample.

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

BST Results:		
INC001 – downstream	Too few bacteria for BST source determination	<10
INC002 – upstream	Too few bacteria for BST source determination	<10

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

BST Results:		
LFS001 – downstream	Human – 8% Avian – 31% Canine – 15% Deer – 13% Misc. Wildlife – 22% Non-human Unknown – 11%	70
LFS002 – upstream	Human – 0% Avian – 36% Canine – 13% Deer – 3% Misc. Wildlife – 34% Non-human Unknown – 14%	17

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

BST Results:		
ANA001 – downstream	Human – 7% Avian – 39% Canine – 8% Deer – 16% Misc. Wildlife – 23% Non-human Unknown – 7%	50
ANA002 – upstream	Human – 4% Avian – 44% Canine – 9% Deer – 6% Misc. Wildlife – 26% Non-human Unknown – 11%	35

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

BST Results:		
LBD001 – downstream	Too few bacteria for BST source determination	<10
LBD002 – upstream	Too few bacteria for BST source determination	<10

h. Muddy Branch-		Fecal Bacteria Results: (<i>Enterococcus</i> CFU/100ml)
	BST Results:	
MDB001 – downstream	Too few bacteria for BST source determination	<10
MDB002 – upstream	Human – 0% Avian – 39% Canine – 8% Deer – 15% Misc. Wildlife – 29% Non-human Unknown – 9%	12

i. Northeast Branch-		Fecal Bacteria Results: (<i>Enterococcus</i> CFU/100ml)
	BST Results:	
NEB001 – upstream	Human – 2% Avian – 29% Canine – 12% Deer – 18% Misc. Wildlife – 27% Non-human Unknown – 12%	22
NEB002 – downstream	Human – 6% (7%) Avian – 34% (31%) Canine – 11% (12%) Deer – 5% (6%) Misc. Wildlife – 32% (31%) Non-human Unknown – 12% (13%)	105 (110)

Note: Values in parentheses for station NEB002 are for field duplicate sample.

j. Northwest Branch-		Fecal Bacteria Results: (<i>Enterococcus</i> CFU/100ml)
	BST Results:	
NWA001 – downstream	Human – 0% Avian – 35% Canine – 10% Deer – 8% Misc. Wildlife – 33% Non-human Unknown – 14%	16
NWA002 – upstream	Too few bacteria for BST source determination	<10

k. Oxon Run-		Fecal Bacteria Results: (<i>Enterococcus</i> CFU/100ml)
	BST Results:	
OXN001 – downstream	Human – 0% Avian – 37% Canine – 11% Deer – 9% Misc. Wildlife – 30% Non-human Unknown – 13%	16
OXN002 – upstream (Watts Branch)	Human – 0% Avian – 35% Canine – 12% Deer – 11% Misc. Wildlife – 33% Non-human Unknown – 9%	20

l. Paint Branch-		Fecal Bacteria Results: (<i>Enterococcus</i> CFU/100ml)
	BST Results:	
PNT001 – downstream	Too few bacteria for BST source determination	<10
PNT002 – upstream	Too few bacteria for BST source determination	<10 (<10)

Note: Values in parentheses for station PNT002 are for field duplicate sample.

m. Parkway-		Fecal Bacteria Results: (<i>Enterococcus</i> CFU/100ml)
	BST Results:	
PKY001 – downstream (Bear Branch)	Human – 4% Avian – 35% Canine – 10% Deer – 7% Misc. Wildlife – 29% Non-human Unknown – 15%	87
PKY002 – upstream (Walker Branch)	Too few bacteria for BST source determination	<10

n. Piscataway-		Fecal Bacteria Results: (<i>Enterococcus</i> CFU/100ml)
	BST Results:	
PSW001 – downstream	Too few bacteria for BST source determination	<10
PSW002 – upstream	Human – 0% (0%) Avian – 31% (29%) Canine – 9% (10%) Deer – 17% (16%) Misc. Wildlife – 32% (33%) Non-human Unknown – 11% (12%)	83 (90)

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

o. Rock Creek- **Fecal Bacteria Results:**
(*Enterococcus* CFU/100ml)

BST Results:		
RKC001 – downstream	Human – 0% Avian – 37% Canine – 15% Deer – 8% Misc. Wildlife – 27% Non-human Unknown – 13%	53
RKC002 – upstream	Too few bacteria for BST source determination	<10

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

BST Results:		
SNC001 – downstream	Too few bacteria for BST source determination	<10
SNC002 – upstream	Too few bacteria for BST source determination	<10

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

BST Results:		
SLC001 – downstream	Human – 3% Avian – 33% Canine – 21% Deer – 3% Misc. Wildlife – 28% Non-human Unknown – 12%	23
SLC002 – upstream	Human – 4% Avian – 29% Canine – 15% Deer – 2% Misc. Wildlife – 34% Non-human Unknown – 16%	78

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

BST Results:		
UBD001 – downstream	Human – 0% Avian – 36% Canine – 14% Deer – 16% Horse – 4% Misc. Wildlife – 21% Non-human Unknown – 9%	55
UBD002 – upstream	Too few bacteria for BST source determination	<10

s. Watts Branch- Fecal Bacteria Results:
BST Results: (*Enterococcus* CFU/100ml)

WTB001 – downstream	Too few bacteria for BST source determination	<10
WTB002 – upstream	Too few bacteria for BST source determination	<10 (<10)

Note: Values in parentheses for station WTB002 are for field duplicate sample.

t. Western Branch- Fecal Bacteria Results:
BST Results: (*Enterococcus* CFU/100ml)

WNB001 – downstream	Too few bacteria for BST source determination	<10
WNB002 – upstream	Too few bacteria for BST source determination	<10

Basins Subject to Annual Monitoring and Reporting Requirements-

a. Dulles Interceptor- Fecal Bacteria Results:
BST Results: (*Enterococcus* CFU/100ml)

DSI001	Human – 0% Avian – 33% Canine – 13% Deer – 17% Misc. Wildlife – 26% Non-human Unknown – 11%	15
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b. Mattawoman- Fecal Bacteria Results:
BST Results: (*Enterococcus* CFU/100ml)

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

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

PTC001 (Mill Branch)	Too few bacteria for BST source determination	<10
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e. Patuxent North- Fecal Bacteria Results:
BST Results: (*Enterococcus* CFU/100ml)

PTN001 (Hawlings River)	Too few bacteria for BST source determination	<10
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f. Rock Run-

Fecal Bacteria Results:

(Enterococcus CFU/100ml)

BST Results:

RCM001	Too few bacteria for BST source determination	<10
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