Leach Botanical Garden

Reach ID: rLBG*17 Survey date: 7/5/06 Length: 241 feet along Johnson Creek

EPA Rapid Assessment Scores

PA Rapid Assessme	int Score
Epifaunal	
Substrate/	
Available Cover:	8 /20
Embeddedness:	40 /00
(high gradient)	13 /20
Velocity/Depth	
Regimes:	13 /20
(high gradient)	
Sediment	
Deposition:	10 /20
Channel Flow	
Status:	10 /20
Channel	
Alteration:	12 /20
Frequency of	
Riffles or Bends:	13 /20
(high gradient)	
Bank Stability	
Left Bank:	2 /10
Right Bank:	5 /10
Vegetative	
Protection	
Left Bank:	3 /10
Right Bank:	4 /10
Riparian Vegetation	
Zone Width	
Left Bank:	6 /10
Right Bank:	5 /10

Total Score: 104 /200 Overall Condition: Fair

Supplemental Information

Vegetative Stream Shading
Left Bank: 60%
Right Bank: 75%

Riparian Vegetative Buffer Width
Left Bank: 10 m.
Right Bank: 7 m.

Bank Slope
Left Bank: not recorded

Right Bank: not recorded

Large Woody Debris count

Small (diameter 10 cm. to 30 cm.)

Medium (diameter 30 cm. to 60 cm.) not recorded

Large (diameter >60 cm.)

not recorded

Has LWD been placed?

not recorded

not recorded

Management Issues

Report Date: 4/12/2007

Culvert (on surveyed stream) Stream Bank Failure

Field Notes

bridge at SE 122



Leach Botanical Garden

Reach ID: rLBG*23 Survey date: 7/5/06 Length: 447 feet along Johnson Creek

EPA Rapid Assessment Scores

.i A Napiu Assessilie	
Epifaunal	
Substrate/	
Available Cover:	15 /20
Embeddedness:	12 /20
(high gradient)	12 /20
Velocity/Depth	
Regimes:	7 /20
(high gradient)	
Sediment	
Deposition:	9 /20
Channel Flow	
Status:	13 /20
Channel	
Alteration:	6 /20
Frequency of	
Riffles or Bends:	10 /20
(high gradient)	
Bank Stability	
Left Bank:	3 /10
Right Bank:	4 /10
Vegetative	
Protection	
Left Bank:	6 /10
Right Bank:	5 /10
Riparian Vegetation	
Zone Width	
Left Bank:	4 /10
Right Bank:	4 /10

Total Score:

Overall Condition: Fair

)	
)	
)	
)	
)	
))	
)	

98 /200

Supplemental Information

Vegetative Stream Shading
Left Bank: 90%
Right Bank: 80%

Riparian Vegetative Buffer Width
Left Bank: 9 m.
Right Bank: 10 m.

Bank Slope
Left Bank: not recorded
Right Bank: not recorded

Large Woody Debris count
Small (diameter 10 cm. to 30 cm.)
not recorded

Medium (diameter 30 cm. to 60 cm.) not recorded

not recorded Has LWD been placed?

Large (diameter >60 cm.)

not recorded

Management Issues

Report Date: 4/12/2007

Culvert (on surveyed stream) Hardscape Stream Bank Erosion

Field Notes



Leach Botanical Garden

Reach ID: rLBG*24 Survey date: 7/6/06 Length: 166 feet along Johnson Creek

EPA Rapid Assessment Scores

Epifaunal	
Substrate/	
Available Cover:	15 /20
Embeddedness:	14 /20
(high gradient)	
Velocity/Depth	
Regimes:	14 /20
(high gradient)	
Sediment	
Deposition:	11 /20
Channel Flow	
Status:	10 /20
Channel	
Alteration:	18 /20
Frequency of	
Riffles or Bends:	15 /20
(high gradient)	
Bank Stability	
Left Bank:	4 /10
Right Bank:	4 /10
Vegetative	
Protection	
Left Bank:	6 /10
Right Bank:	8 /10
Riparian Vegetation	
Zone Width	
Left Bank:	4 /10
Right Bank:	10 /10

Total Score: 133 /200 Overall Condition: Good

Supplemental Information

Vegetative Stream Shading Left Bank: Right Bank: 60% Riparian Vegetative Buffer Width Left Bank: 10 m. Right Bank: 10 m. Bank Slope Left Bank: not recorded Right Bank: not recorded Large Woody Debris count Small (diameter 10 cm. to 30 cm.) not recorded Medium (diameter 30 cm. to 60 cm.) not recorded Large (diameter >60 cm.) not recorded

Management Issues

Report Date: 4/12/2007

Field Notes

Has LWD been placed?

not recorded



Leach Botanical Garden

Reach ID: rLBG*25 Survey date: 7/6/06 Length: 151 feet along Johnson Creek

EPA Rapid Assessment Scores

4.4.10.5
14 /20
40 (00
12 /20
7 /20
8 /20
7 /20
17 /20
10 /20
4 /10
4 /10
6 /10
6 /10
9 /10

Total Score: 114 /200 Overall Condition: Fair

Supplemental Information

Vegetative Stream Shading Left Bank: Right Bank: 65% Riparian Vegetative Buffer Width Left Bank: 8 m. Right Bank: 10 m. Bank Slope Left Bank: not recorded Right Bank: not recorded Large Woody Debris count Small (diameter 10 cm. to 30 cm.) not recorded Medium (diameter 30 cm. to 60 cm.) not recorded Large (diameter >60 cm.) not recorded Has LWD been placed? not recorded

Management Issues

Report Date: 4/12/2007

Field Notes

log debris dam at endpoint



Leach Botanical Garden

Reach ID: rLBG*27 Survey date: 7/6/06 Length: 187 feet along Johnson Creek

EPA Rapid Assessment Scores

EPA Rapid Assessmo	ent Score
Epifaunal	
Substrate/	
Available Cover:	11 /20
Embeddedness: (high gradient)	13 /20
Velocity/Depth Regimes: (high gradient)	8 /20
Sediment Deposition:	10 /20
Channel Flow Status:	8 /20
Channel Alteration:	17 /20
Frequency of Riffles or Bends: (high gradient)	10 /20
Bank Stability Left Bank: Right Bank:	2 /10 8 /10
Vegetative Protection	
Left Bank: Right Bank:	6 /10 7 /10
Riparian Vegetation Zone Width	
Left Bank: Right Bank:	2 /10 10 /10

Total Score: 112 /200 Overall Condition: Fair

Supplemental Information

Vegetative Stream Shading Left Bank: Right Bank: 65% Riparian Vegetative Buffer Width Left Bank: 4 m. Right Bank: 10 m. Bank Slope Left Bank: not recorded Right Bank: not recorded Large Woody Debris count Small (diameter 10 cm. to 30 cm.) not recorded Medium (diameter 30 cm. to 60 cm.) not recorded Large (diameter >60 cm.) not recorded Has LWD been placed? not recorded

Management Issues

Report Date: 4/12/2007

Stream Bank Erosion

Fie	ld I	No	te

endpoint

