

Shoreline Survey Section 8

Segment begins: North Village Dam
Segment ends: South Dam

This area to the north of south dam is an extensive impounded area with forested, wetland, residential and industrial sections. There is emergent and submerged vegetation and water depth varies from a few to over 8 ft. Aquatic life including fish (smallmouth bass) is abundant. Herons and mallard ducks are seen. The water is clear and odorless, and the bottom appears to be gravel. Over hanging trees line the banks. The middle portion to the North Village dam is shallower, ranging from 3 ft. to less than one foot. Exposed rocks line the banks and large boulders emerge in several places. Again overhanging trees line the banks. Vegetation ranging from trees to shrubs and flowering plants fill the shoreline. The water is clear and odorless and the bottom is gravel with larger rocks. Some aquatic vegetation is evident in the swift flowing water.

The stream bottom is typically gravel, with decreasing amounts of cobbles, boulders, sand, silt and organic debris. The color is gray and the water is clear, odorless and swiftly flowing in the northern part and almost still in the southern impoundment behind the south dam. Several pools and riffles exist and the flow is not blocked. No areas of dense or clogging vegetation exist. Wetlands exist and are somewhat degraded by purple loosestrife and sedimentation.

Both left and right banks are about 95% shaded with overhanging trees and shrubs and also show grasses and flowers, exposed roots and wetlands and marsh.

A riparian area exists on the right bank for a few to 105 ft, and on the left from a few to about 50 ft. The right bank shows sections of nearby roadway and the left bank shows some paved drives and parking areas. Land uses visible from the river include industrial, commercial, residential, parking lots, roads, railroads and wooded areas. Runoff from parking areas exists. Some areas of potential space surround this section. There is no designated access for recreation but potential sites exist.

Fish are abundant. Smallmouth bass have been caught, several fish nests are evident. Other forms of aquatic life noted are turtles, snakes, frogs, snails, mussels, clams and abundant crayfish. Wildlife habitat elements present in the water include pools and riffles, gravel bottom, rocks and boulders, emergent and overhanging vegetation, fallen trees, and undercut banks. Beaver, muskrat, mink, fox and otters are evident from holes, teeth marks, food storage/eating, dens, scat and tracks. Wildlife habitat elements near the stream include standing dead trees, fallen trees, scattered rocks and boulders, stone walls and vines. Birds noted include herons and mallard ducks. The riparian area is linked to other wetlands adjacent to the stream and is vegetated and parts are at least 100 ft. wide.

Shoreline Survey Field Data Sheet Section 8

Segment begins: Middle dam

Segment ends: North dam

Date: 9/20/2006

Observers: Tom Ryzewski, Alan Dabrowski

Today's weather: pt. clear

Weather over past 24 -48 hours: Pt. clear

INSTREAM CONDITIONS

Stream bottom

1. What is stream bottom made of? (*mark from 1=most typical to 6=least typical*)

(6) Organic debris (leaves, twigs) (1) Gravel (1/4 - 2")

(5) Silt (mud) (2) Cobbles (2 -10")

(4) Sand (1/16 to 1/4") (3) Boulders (> 10")

2. What color is the stream bottom? ("X" one)

() Black () Brown () Orange/Red () Yellow () Sandy (x) Gray () Other(describe):

Water

3. What color is the water? ("X" one)

() Cloudy () Tea () Milky () Muddy (x) Other (describe): clear

4. What is the water odor? ("X" one)

(x) None () Rotten eggs () Musky () Fishy () Oily () Ammonia () Other(describe):

5. Problem areas. ("X", *describe location and cause, if apparent. Locate on map.*)

() Oily sheen or smell:

() Sewage: smell, milky color, toilet paper:

() Foam or scum (describe. Does a stick break it up?):

() Fishy odor or fish kill:

() Floating garbage:

() Excess sedimentation:

6. How deep is the water? ("X")

() Less than 1' (x) More than 1' () More than 2' () More than 3'

7. How does the water level compare to normal for this time of year? ("X")

() Normal () Higher (x) Lower () Don't know If very high or low, can you tell why?:

8. Is the water flowing ("X") (x) Quickly () Slightly () Almost still

9. Number of pools: several Number of riffles: several () Don't know

10. Is stream flow blocked by...("X" and locate on map.)

() Trees () Trash () Large objects () Vegetation

Vegetation

11. Are there areas of extremely dense or clogging aquatic vegetation in any section? () Yes (x)No

If yes, locate on map and describe cause, if obvious:

Species, if known (“X”) ()Duckweed ()Water chestnut ()Other :

12. Are there areas covered with algae? (“X”) ()Streambed ()Around pipes

If algae seems abnormally heavy, locate on map. Draw in extent of algae on map.

13. Are there wetlands? (“X”, locate on map.) (x)Yes ()No If yes, are they degraded by... (“X”)

()Phragmites (x)Purple Loosestrife ()Fill ()Blockages ()Ditches (x)Sediment (

)Disturbed banks ()Pipes ()Trash ()Other(describe):

STREAM CORRIDOR CONDITIONS

Riparian Area and Land Use

14. Do trees and shrubs overhang the stream and provide shade? (“X”) (x)Yes ()No

If yes, estimate what percentage of the bank is shaded: 95%

15. What are the stream bank conditions? (“X”. Also put an asterisk “*” next to the most common.)

Left Bank: (Looking downstream) (If doing only one bank, indicate which one)

(x)Eroding ()Moss (x*)Trees/Shrubs (x)Exposed Roots (x)Grass/Flowers (x

)Loosestrife/Phragmites

()Beaches ()Riprap/channelized (x)Shrubs/brambles (x)Wetlands/marsh

Right Bank: (x)Eroding ()Moss (x)Trees/Shrubs (x)Exposed Roots (x)Grass/Flowers

(x)Loosestrife/Phragmites ()Beaches ()Riprap/channelized (x)Shrubs/brambles (x

)Wetlands/marsh

16. Is there a vegetated riparian area beyond the stream bank? If yes, indicate condition. (“X”. Also put an asterisk “*” next to the most common.)

Left Bank: (x)Shrubs/grasses ()mowed pasture/meadow (x)Forested/trees ()Park with few trees

(x)Lawn

Right Bank: (x)Shrubs/grasses ()mowed pasture/meadow (x)Forested/trees ()Park with few trees

()Lawn

If area is not vegetated, please describe condition: (i.e. parking lot, pavement, roadway, buildings)

Left Bank:some paved drives and parking areas

Right Bank: section of nearby roadway

17. If the riparian area is forested or in shrubs and grasses, estimate width of the vegetated area (to a lawn, road, or other change in land use): left bank : varies from few feet to 50 ft right bank: varies from few feet to 150 ft.

18. Are there places that have fill or clear-cutting? (“X”) ()Yes (x)No

If yes, mark locations on map as fill F1 , F2, F3. Etc (or clear-cutting CC1 CC2, CC3, etc).

19. What are the land uses visible from the river? (“X” and “*” the dominant land use type.)

(x) Industrial (x) Parking lots () Golf courses

(x) Commercial (x) Roads () Protected/conservation land

() Agricultural () Landfills () Undeveloped/unprotected land

(x) Residential (x) Railroads () Wastewater treatment plants

() Park/ ballfields ()Junkyards (x) Wooded areas ()Other (describe):

20. Do you see runoff from any of the following? (“X”. “*” If run-off is significant locate on map.)

()Manure ()Pet / goose droppings (x)Parking lots ()Sewage ()Roads
()Bridges ()Construction ()Plowed fields ()Lawns ()Other(describe):

Pipes: Please fill out separate pipe survey and mark locations on map as P1, P2, P3, etc.

Trash: Describe any potential cleanup areas. Locate on map: a few areas of trash and metallic junk

Potential Open Space: Describe and locate on map: Some areas of open space surround this part of the river.

Recreation

21. Is there designated public access to the stream? Is it appropriate for... (“X” and locate on map.)

()Canoeing ()Fishing ()Swimming ()Walking ()Bicycling ()Other(describe):

22. Are there areas which are informal or potential access points? ()No (x)Yes (*Describe and locate on map*):

WILDLIFE / HABITAT

Aquatic Habitat/Species

23. Do you see fish or evidence of fish? (*describe*): Yes

Estimate number: several If possible, describe species & size. Smallmouth bass, 12 in. caught

Evidence of fish? (i.e. nests): several small nests

24. Other forms of aquatic life? (“X”, *identify species if known*)

(x)Aquatic insects (x)Turtles (x)Frogs ()Salamander (x)Snail (x)Mussels ()Snakes (x)Clams

(x)Other: abundant crayfish

Evidence of aquatic species? (i.e. eggs, tracks) :

25. Wildlife and fish habitat elements present in water (“X”)

(x)Pools and riffles in stream

(x)Gravel stream bottom

(x)Rocks and boulders in stream

(x)Emergent aquatic vegetation

(x)Vegetation hanging over the banks and water

(x)Fallen trees in water

(x)Undercut banks

Riparian Habitat/Species (look along stream bank and vegetated riparian areas)

26. Animals or evidence of animals? (“X”)

(x)Holes (x)Teeth marks (x)Food storage/eating (x)Dens (x)Scat ()Footprints/tracks

Specific animals seen (or evidence of):

27. Wildlife habitat elements located near the stream (“X”)

(x)Standing dead trees

(x)Fallen tree limbs and trunks

(x)Scattered rocks and boulders

(x)Stone walls (without cement)

(x)Vines

()Springs and seeps

()Vernal pools

28. Birds? (“X”) (x)Herons (x)Mallard ducks ()Wood ducks ()Kingfishers ()Canada geese

Other:

Evidence of birds: (i.e. nests, footprints):

29. Do you know if there are rare & endangered species of plants or animals in your segment? If so, identify:

30. Links from riparian area to other areas of wildlife habitat: (“X”)

(x)Wetlands adjacent to stream

()Abandoned cropland or pasture near stream

(x)The riparian area is vegetated with trees and/or shrubs at least 100 feet wide

()The riparian area connects to adjacent open space or greenway

Shoreline Survey Priorities for Action Section 8

Assets

River area is an excellent wildlife habitat

Several potential access points exist for boating and kayaking

Trail potential is very good

Problems

Some trash is located in a few areas

Actions

Investigate potential for boating and trail access and use

Clean trash areas.