Handout #1
Management Plan for Children's Duck Pond Park (1996)

	ISSUES	ALTERNATIVE #1.	ALTERNATIVE #2	ALTERNATIVE #3.
1. Use of the park	Should the primary use be nature oriented, or should the park be developed with more traditional city park facilities, such as playgrounds and picnic tables?			
2. Water Levels	Should management objectives include regulation of the water level of the ponds, or should they be left as they are? If no management is used, the ponds will eventually silt over.	Make no efforts to alter the current water flow.	Build a dam at foot of main pond to hold more water. Build a dam to enlarge second pond.	Dig a well and Install a pump in order to provide the ponds with an easily regulated flow of water. Dredge ponds of silt to deepen.
3. Flora	Should vegetation be managed to introduce and maintain indigenous species, and eliminate foreign species, or should the present system of simply mowing the area twice a year continue? This current method does not allow much species diversity.	Continue to mow the area twice a year to provide weed control and reduce fire danger.	Plant a small number of Indigenous species on the borders of the ponds. Continue to mow the rest of park twice a year.	Eliminate all exotic species, and make extensive efforts to introduce species typical to a riparian habitat
4. Fauna	Should facilities be developed to protect species that utilize the area and to encourage other species to visit it? Currently little is done to accomplish this, and there is a perceived problem of wildlife disturbance.	Make no efforts to increase protection of the existing species or to introduce new species.	Create a small island in the center of the main pond as a nesting habitat.	Create a small island in the center of the main island as a nesling habitat, and install nesting boxes along the ponds.
5. Access	Should accessibility be increased by improving bridges and trails?	Make no efforts to change the present state of the trails. Build rudimentary foot bridges at the east end of the park over Pattee Creek, and near the south boundary of the park, spanning the gap between the main and secondary ponds.	Widen and level the trail around the main pond. Build bridges that are more accessible to cyclists at the east end of the park over Pattee Creek, and at the south boundary at both the head and foot of the main pond.	Widen and level the main trail around the pond, covering it with crushed gravel to make it handicapped accessible. Build bridges more easily accessible to cyclists on the east end of the park over Pattee Creek and at the south side at the head of the main pond. Build a handicapped accessible bridge over the span between the main pond and the secondary pond. Install a handicapped accessible ramp on the street curb in front of this bridge.
6. Education and Recreation	What types of facilities and/or organizations should be developed to enhance educational opportunities provided by the park?	Install one sign briefly describing the riparian habitat.	install four signs along the trail around the main pond describing marsh habitat and different aspects of it, including aquatic vegetation, land vegetation, and wildlife.	Install eight signs around the park, with four describing the general habitat, and four giving more detailed information about selected species. Install two wooden benches along the trail around the main pond.
•	Should the protection and maintenance of the park and natural areas be enforced primarily by regulation, or by education? This leads to the question of who should conduct the enforcement, the Missoula Department of Parks and Recreation, or other interest groups, such schools, nature organization, or private citizens.	Make no efforts to change present rules or enforcement of them.	Missoula Parks and Recreation rules. Organize a volunteer litter clean-up group.	Install a sign stating the name of the park and the standard Missoula Parks and Recreation rules. Install two trash receptacles and have hired personnel periodically patrol for litter. Build a four-foot high double beam wooden fence around the area, with two entrances on the south side of the park, and one each on the east and west ends. This will help delineate the area as a special resource, encouraging the public to treat it with respect
8. Safety	Should the safety of children and other users be managed by regulations, education, or physical barriers (around the ponds, for example)? It is possible that any development of the park will make it more of an attractive nuisance.	Make no efforts to change safety levels.	Make no efforts to change safety levels.	Make no efforts to change safety levels.
9. Encroachment	Should encroachment onto the park property by neighboring residents continued to be permitted. Currently several residents use park property for firewood and vehicle storage, and use park land for access to their properties.	Make no efforts to eliminate encroachment onto park lands.	Make no efforts to eliminate encroachment onto park lands.	Require all neighboring residents to remove any and all possessions from park land. Build the entranceways to the fence too small for vehicle entry.

CHILDREN'S FISH POND PARK

IMPROVEMENTS PROGRAM - ISSUES, GOALS & OBJECTIVES

(Note: The following is based on the original DRAFT of the Issues and Goals paper prepared by the Missoula Society of Landscape Architects in May 1996. It has been modified to reflect the most recent consensus of those in attendance at the meeting of 9/26/02, and is presented for review and comment by all interested parties.]

Overrising GOAL. The overall role of the Park is as a wildlife conservation area in an urban

1. NEIGHBORHOOD CONSIDERATIONS

Provide for protection of the park and adjacent properties from:

- a. Flooding
- b. Trespassing (Megal use of the public park for private purposes)
- c. Visual degradation
- d. Noise pollusion

Enhance neighborhood connections (pedestrian/bicycle)

Enhance and protect views and vistas from within and without the park Establish the park boundary

2. PUBLIC SAFETY

Limit/eliminate physical hazards to humans

Provide accessible, sais access to paric

- a, identify on-street, curbside parking areas
- b. Coordinate with a Sidewalk Master Flan
- c. Minimize and provide protection from water hazards
- c. Design trails, bridges, boardwalks, etc. with safety in mind

3. STORMWATER & WATER MANAGEMENT

Determine short-term and long-term goals of the Engineering Department regarding continued use of the Ponds as a conduit/storage facility for Pattee Creek, especially the impact on the ponds when being by-passed during Patice Creek flood events, and the impact of the new storm flows from the SW Hooins cramage area.

Maximize flows through the existing condinetwork

Ensure ponds have continued water supply during low-flow periods

WILDLIFE HABITAT

Provide appropriate signage to curtall inappropriate feeding of the weierfowi

Provide food, nesting and shelter opportunities that offer protection from humans and other animals.

Maintain water levels during dry periods

Enhance vegetative diversity

Provide habitat opportunities for birds, mammals, amphibians, and restiles in addition to waterford

Establish special park rules for pets

PASSIVE RECREATION/EDUCATION

Provide trails, bridges, boardwalks and banches for walking, relaxing, observing, etc. Provide interpretive information to the using public that focuses on wildlife habital.

VEGETATIVE DIVERSITY

Identify/inventory existing vegetation

identify sites/riches for desirable potential vegetation

Design a pond profile to support a wider variety of vegetation beneficial to targeted wildlife species

Introduce integrated pest management and select new plant species to minimize weed establishment

Consider sesthetics/views from within and from outside the park

MAINTENANCE

Target unwanted plants for removal/continued control: devalor a site-appropriate weed control procesm

Minimiza routine (weskly) mowing; provide an annual

movingimaintenance plan Provide trash receptacles at easily accessed designated locations

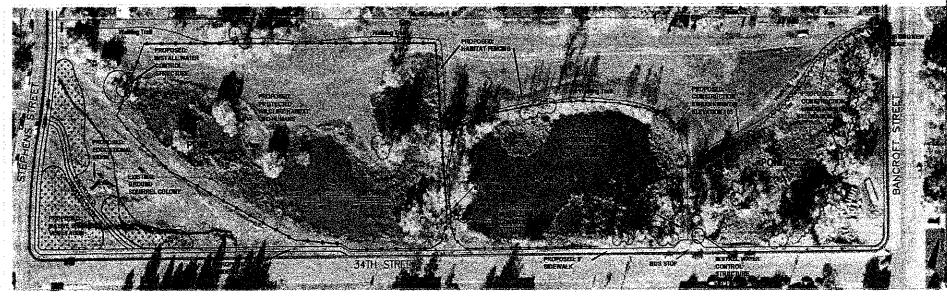
Design all user surfaces and structures for minimal maintenance. Design water control structures for minimal maintenance

(Edited and revised by Kent Watson, FASLA, landscape architect)

Children's Fish **Pond Park Improvements Program:** Issues, Goals and Objectives. August 2004

Handout #2





Handout #3

Habitat Enhancement Concepts for the Children's Fish Pond: Creating an Urban Nature Preserve (2007)

Erika Miersma & Susan Wall

We reviewed available information about Bancroft Pond, urban natural areas, and natural wetlands in Western Montana including literature, media, and local specialists. We used the gathered information to answer the following questions:

- 1) What is the relevant history of the pond and watershed that informs its potential as an urban nature preserve
- 2) What is the current state of the site, regarding the watershed, soil, vegetation, and wildlife?
- 3) How can each of the above natural features be restored and/or enhanced so as to create a more natural pond landscape and associated native community typical of western Montana?
- 4) What social and cultural views must be addressed? How can the project plan accommodate differing views and objectives?
- 5) How can educational and recreational uses be incorporated into the park?

We present the following targeted recommendations for goals and actions:

- 1. Site will support habitats capable of supporting the plant & animal communities associated with natural ponds/wetlands found in stream floodplains in western Montana (within the limits of its size; ie no large mammals)Through management, exotic species numbers will decline and no longer dominate the site; n
- 2. tive species will come to dominate the site. Unnatural concentrations of native species (ducks, other) will decline to natural levels
- 3. Site will be used mainly for nature study and other educational and recreational uses that have minimal impact on natural features of the site
- 4. Watershed community becomes involved in caring for the creek and pond/wetland complex and makes long term commitment to this effort

To achieve the above goals, the following actions are recommended:

- Rename pond/wetland complex the Bancroft Urban Nature Preserve or solicit names from the neighborhood residents
- 2. Use water stormwater control structures at Higgins Avenue to direct maximum amount of water into the ponds
- 3. Manage the pond for biodiversity (aquatic, wetland & riparian habitat)
- 4. Delay plantings and fish stocking until it is determined what water levels can be reliably maintained over the hydrologic year and from year to year; then plant/stock a variety of native species likely to succeed in the available habitat
- 5. Develop a trail and interpretive sign system
- 6. Create a Bancroft Urban Nature Preserve website with additional information about the preserve and resources for teachers
- 7. Establish a Pattee Creek/pond watershed group with stewardship & education responsibilities-meet twice a year to discuss whole watershed (once a year in Pattee Canyon picnic area and once a year in Bancroft Urban Nature Preserve)
- 8. Consider daylighting lower Pattee Creek again to reestablish water source for riparian habitat downstream of the ponds.
- 9. Eliminate year-round duck populations by inhibiting duck feeding and possibly trapping ducks that remain and releasing them elsewhere

Handout #4

mandout # 4
1996 + 2004 + 2016 Comments
Attitude
City management of this area by parks and recreation. This is either a park or a place for recreation. It is a place to
experience nature as it exists, to develop a healthy respect for all the plants and animals we share the space with. Th
document drafted in 1996 and reviewed in 2002 by the Missoula Society of landscape architects captures the essence
of the area well. Let them take the lead.
Don't want any "Park type development". We don't expect to find picnic tables when we go walk in the woods
therefore they shouldn't be here.
I want this to remain a habitat more than a park
View the area as a community jewel - the only place where citizens can have interaction with an abundance of
vegetation and wildlife in the heart of town.
What about a community garden for all these apartments?
There are many parks around this area. Please keep this the sanctuary it can be
Parks and Rec seems to need to drive here. I don't understand. On the other hand an occasional bike cop riding advice
single through might discourage some bad behavior
keep it wild, good.
This is an oasis right here in Missoula, Montana and is enjoyed by young and old alike
Interference with the natural evolution of the park – let it lead where any human involvement needs to occur – should
be minimal Protect wildlife
Veighborhood Considerations
a. Provide for protection of the park and adjacent properties from: • Flooding
trespassing (illegal use of the public park for private purposes)
visual degradation
noise pollution
b. Enhance neighborhood connections (pedestrian / bicycle)
c. Enhance and protect views and vistas from within and without the park
d. Establish the park boundary
Clean up litter
Determine who owns water rights
Public safety
Limit /eliminate physical hazards to humans
Provide accessible, safe access to park:
Identify on street, curbside parking areas
coordinate with sidewalk master plan
minimize and provide protection from water hazards
designed trails, bridges, boardwalks, etc. with safety in mind
Create access road Provide trails bridges have due to a final facility and the first trails and the first trails and the first trails and the first trails are trailed to a final facility and the first trails are trailed to a final facility and the first trails are trailed to a final facility and the first trails.
Provide trails, bridges, boardwalks and benches for walking, relaxing, observing, etc. provide interpretive information
to that using public that focuses on wildlife habitat Information kiosk for pond and nearby parks and Install interpretive signs
Provide appropriate signage to curtail inappropriate feeding of the waterfowl
Establish special park rules for pets (e.g., Keep dogs on leashes)
More trash cans
Access (Bridges, trails, benches, viewing places)
No fencing
No picnic tables
Build playground equipment
Build a covered picnic area
Improve trail for safer walking and disabled people using the path – not asphalt
Sitting area with shade
Rock seating
Bench at wooded pond
Bench near small pond to view birds
Another bench on Main Pond
Viewing platform

	Make trails more accessible to bicycles
	Crosswalk on Bancroft [Sign for crossing on Bancroft: deer crossing sign]
	Sign for crossing on Bancroft: deer crossing sign
	Clean up dead tree branches
Stori	m water and water management
	Determine short-term and long-term goals for the engineering department regarding continued use of the po
	conduit /storage facility for Patty Creek, especially the impact on the ponds of being bypassed during Patty C
	events, and the impact on the new storm flows from the Southwest Higgins drainage area.
	Maximize flows through the existing pond network
	Ensure ponds have continued water supply during low flow periods
	Create an additional pond on the west end of the park
	Keep riparian area at west end of park
	Increase water flow in summer [Divert more water into pond]
	Build dams to control water flow
	Design water control structures for minimal maintenance
	Environmental assessment for ideas such as dredging and damning
Wat	er Levels
	Control water flow to maintain level
	Channelized to zigzag (for slow streamflow)
	Design a pond profile to support a wider variety of vegetation beneficial to targeted wildlife species
	Dig at least one pond deeper
	Pay attention to boards in dam.
	Keep (part) as stream area
	Improve secondary dam
	Deepen main pond by dredging
	Maintain water levels during dry periods
	life Habitat, Vegetative Diversity, Flora, Fauna
20114	Identify and inventory existing vegetation
	Need inventory of resources: plants and animals
\ 	Identify sites and niches for desirable potential vegetation
	Manage to maintain natural wetlands
	Leave it as wild to encourage wildlife
	Provide food, nesting and shelter opportunities that offer protection from humans and other animals.
	Provide habitat opportunities for birds, mammals, amphibians, and reptiles in addition to waterfowl
	enlarge island
,	Maintain or restore nesting platforms.
	Refurbish nesting site
	Better goose nesting in pond C [Add hay bale for Geese]
	Build wood duck nests
	Sandhills would help gopher boom
	Habitat for blackbirds, geese, ducks – all other birds and species both plant and animal
	Habitat for gophers (they keep migrating as development takes their homes, let them stay along pond A
	I also would love to have more water for ducks. This is a duck pond
	Insert basking logs
	Love the blackbirds – first sign of spring in the cattails
	Deer beds
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Install a log or island in the main pond for ducks and turtles
	Stock ponds with fish
	tative Diversity
vege	
	Identify /inventory existing vegetation
	Identify sites niches for desirable potential vegetation
	Enhanced vegetative diversity
	More Native grasses and wildflowers and shrubs
	More Native riparian vegetation stream area
	Monitor condition of wetlands
	Develop a site appropriate weed control program
	Target unwanted plants for removal and continued control;
	Get rid of invasive species – use natives
	Get rid of invasive species – use natives Shrubs and a few trees

Mani- Redu Intro Remi Redu Leavi enco On N Natu Nativ	sider aesthetics /views from within and outside the park lage brush and grass to be aesthetically pleasing luce algae in ponds luce algae in ponds luce integrated pest management select new plant species to minimize weed establishment — okay luce cattails & Bushes along road luce the area along ponds as grassland — the geese graze there all summer lucated burage Wetland shrubs lorthwestern section: trees and bushes lorthwestern section: trees fall, leaving place, underbrush along pond C
Intro Remo Redu Leave enco On N Natu Nativ	oduce integrated pest management select new plant species to minimize weed establishment – okay ove dead trees use cattails & Bushes along road te the area along ponds as grassland – the geese graze there all summer ourage Wetland shrubs lorthwestern section: trees and bushes
Remo Redu Leave enco On N Natu Nativ	ove dead trees uce cattails & Bushes along road te the area along ponds as grassland – the geese graze there all summer ourage Wetland shrubs lorthwestern section: trees and bushes
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Natu Nativ pond	
Nativ pond	real development is trees fall leaving place underbruch along cond C
pond	dat ne veroprateur ve trees tall, leaving place, utide di usit albiig putid C
pond	ve flowering plants such as fire weed would be a nice addition to the Goldenrod that already grows around the
inter-	is and arrow leaf balsam route as well as Lupin would be a nice addition to the dry corner at Stevens and 34th S
	duce native species of flora
	duce plants to increase food supply of ducks
duçation	n and Recreation
	nformational map of the area and nearby parks
	e signage throughout with explanations about the different species and habitat.
	s: don't feed the animals
	don't feed the birds
Signa	age by pond: no motorized craft. Stay out of water. Last year college kids with RC boats were hazing geese durin
nesti	ing wouldn't stop. Boat battery died. They waited in to get it while I called 911.
Start	educational programs with schools
	ould be great to have some guided birding walks on occasion through the duck pond.
/laintena	
Desig	gn all user services and structures for minimal maintenance
Do th	he minimum management – let nature do the work
	gn all user services and structures for minimal maintenance
Desig	gn water control structures for minimum maintenance
Кеер	maintenance costs low
Cont	inue mowing grasses
Than	ks for stopping mowing. This is a native park.
Minir	mize routine (weekly) mowing; provide an annual mowing/management plan; provide trash receptacies at easil-
	ssed designated locations
Clear	n up scum
Don't	t tear out the trees and plants unless trees and plants are dead and (then) replace them
Pleas	se stop removing habitat
Creat	te natural protective barrier around ponds
Leave	e trails in present condition
	development to a minimum
Provi	ide trash receptacles at easily access designated locations – okay,
	rol weeds
	d a Jack fence help protect habitat? Keep people off the ice?
	e as is
	ent of Objectives
	need less regs not more
	Rocks to control (vehicle) entry
	ss points off Bancroft, and two off 34th – all accessible
ncroachr	ment (Use by adjacent landowners)