

IMPOUNDMENT FIELD FORM

GENERAL SITE DESCRIPTION

Site ID: _____ Site Name: _____ Field Staff: _____

Site Identification and Characteristics

Town: _____ Subbasin: _____ Stream: _____
 Aerial Photo (s) ID: _____ USGS Quad (s): _____
 Date: _____ Time: _____ Weather: _____
 Photos Taken: _____
 Length of free flow upstream of impoundment: _____ downstream: _____
 Area (acres): _____ Length (Impounded): _____ Length (shoreline): _____ Max Depth: _____ Mean Depth: _____
 Shape: Linear _____ Oval or Round _____ Irregular _____ Shoreline development (D_L): _____
 Impounding Structure: Rock _____ Wood _____ Concrete _____ Earth _____ Beaver Dam _____
 Height of Structure: _____ Fish Passage Structure: _____ Present _____
 Absent _____ Present/Not Functional _____ Breached _____
 Number Islands: _____ Area Islands: _____ Ownership: Public _____ Private _____
 Unknown _____

Surrounding Land Use (within 300 feet) of Impoundment

<u>Developed</u>	<u>Percentag</u>	<u>Undeveloped</u>	<u>Percentag</u>
Residential - Dense (< 1/2 acre lots)		Upland Forest	
Moderate (1/2 to 1 acre lots)		Deciduous	
Light (> one acre lots)		Mixed Conifer/Deciduous	
Commercial		Coniferous	
Industrial		Shrub land	
Agriculture or Pasture		Field	
Turf		Wetlands	
Parking Lot		Forested	
Highway		Scrub-Shrub	
Recreational (beach, park, etc.)		Emergent	
Other		Other	
TOTAL		TOTAL	

Estimate Percentage using the following percent classes: 0, 1 (< 5), 2 (5-25); 3 (26-50); 4 (51-75); 5 (> 75).

Shoreline Condition: Bank Configuration: Gradual _____ Steep _____
 Undercut _____

Nature: Eroded Stabilized Vegetated Sandy
 % Shoreline Developed _____ %Undeveloped _____

WILDLIFE CHARACTERISTICS

Wetland Vegetation

Type	% of Impoundment	Dominant Vegetation
Aquatic Bed		
Submerged		
Floating		
Emergent		
Scrub/Shrub		
Forested		
Open Water		
Algal Mat		
Other:		
TOTAL		

Background: _____

Invasives/Exotics within Impoundment:

Shrubs: Phragmites P.Loosestrife E. Buckthorn Honeysuckle Knotweed Other
 Aquatic: Milfoil Chestnut Fanwort Pondweed Naiad Hydrilla Other
 Excessive Algae: Plaktonic (bloom)

Predominant Exotics (acres infested): _____

Wildlife Habitat Evaluation:

Wildlife Observed: _____ Background: _____

Rare Species Habitat: _____ Rare Species: _____
 Mussels: _____

Evaluation: (Circle Appropriate Score):

Factor	High (3 pts)	Medium (2 pts)	Low (1 pt)
Size (acres)	> 25 acres	5-25 acres	< 5 acres
% Impoundment Vegetated	>15 and < 50%	5-15% or 50-60%	>60% or <5%
% Shoreline Developed	< 5	6 - < 25%	> 25%
Habitat Types	> 4	2-3	1
Interspersion of Habitat Types	High	Medium	Low
D _L	> 4	2 - 4	< 2
Mean Depth	< 3 ft.	3 - 6 feet	> 6 feet
% Land developed within 300' of impoundment	<10%	10-30%	> 30%
Islands within Impoundment (> 1/4 acre)	> 3	1 - 3	None

Impoundment (> ¼ acre)			
Landscape Position	Connected to other riparian habitat by corridor > 200 ' wide	Partially connected or connected by narrower corridor	Largely isolated by development

TOTAL SCORE WILDLIFE SECTION: _____

Additional comments or observations: _____

Comments/Notes/Sketches:

AQUATIC/FISHERIES HABITAT

Type: Cold water Warm water Fish Stocked Waters: Yes No

Observed/Recorded: _____ Trout Water: Yes No

Fish Passage: Possible Not Possible Fish

Productivity: _____

Fish run: Anadromous Catadromous Observed /Historic
Record _____

Background documentation:

Substrate: Sand Gravel Cobbles Boulders Leaves Silt Mud
Other: _____

Sediment Quality: Degraded Possibly degraded (historic discharges) Good
Unknown

Fish Habitat Indicators: Vegetative Cover Undercut Banks Woody Debris Water Clarity
Cobble Substrates Emergent/Aquatic Veg. Submerged Stumps/Logs
Gravel Large Boulders Other

Cover Evaluation: Good Moderate Poor

Water Quality

Historic WQ _____ State WQ Classification _____

Transparency: _____ Water Color: _____

Comments: _____

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Noticeable odors _____

Public Water Supply: Upstream Downstream

Nonpoint Pollution Adjacent to Restoration Site (within 300 feet)

Ag/crops Ag/tilled Ag/animals impervious (roadways, parking lots, etc)

Septic

CSO's Golf Course Construction Sites Roadway Outfalls Industrial Outfalls

Closest Roadway

Comments: _____

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Downstream Notes

Type: Cold water Warm water Fish Observed:

Fish run: Anadromous Catadromous Observed / Historic
Record _____

Riparian Zone: Well developed Partially degraded Highly degraded

Background documentation:

Upstream Notes

Type: Cold water Warm water Fish Observed:

Fish run: Anadromous Catadromous Observed / Historic
Record _____

Riparian Zone: Well developed Partially degraded Highly degraded

Background documentation:

Aquatic/Fishery Habitat Evaluation:

Factor	High (3 pts)	Medium (2 pts)	Low (1 pt)
Size	> 25 acres	5-25 acres	< 5 acres
Depth	Good mix of shallow and deep water	Intermediate	Most < 3 ft. or > 10 ft.
Cover	Good	Moderate	Poor
Near shore substrate	Mix Substrates – Gravel, sand, silt	Predominately Silt/organic, some sand	Almost Entirely Silt or Organics
% Pond Vegetated	>15 and < 50%	10-15% or 50-60%	>60% or <10%
Water Quality Parameters	All meet water quality standards Class A	All meet water quality standards Class B	All meet water quality standards Class C
Point/Nonpoint	Absent/Minimal	Possible moderate impact	Possible severe impact.

TOTAL SCORE AQUATIC/FISHERY SECTION: _____

RECREATIONAL/HISTORIC

Park or Public Land Swimming/wading Beach Historic Dam and Mill:

Historic Dam Fishing Wildlife Observation

Motor Boat Ramp/Dock Canoe Launch Hiking Trails

Hydropower (existing or historic) _____ Degree of Use:

Other:

Aesthetics

Vistas: Noticeable but Limited Distinctive but Moderate Views Long Scenic Views

Dam in Prominent Setting Dam Isolated

Comments:

 Noise: Local Traffic (cars) Highway Traffic (trucks) Industrial Motor Boats
 Other _____

Recreational/Historic Evaluation

Factor	#	High (3 pts)	Medium (2 pts)	Low (1 pt)
Recreation/ Historic		≥ 4	2-3	≤ 1
Scenic View		Long Scenic Views	Distinctive but Moderate Views	Noticeable but Limited Views
Noise Indicators		≥ 3	2	≤ 1
Ownership		Public	Public and Private	Private

TOTAL SCORE RECREATION/HISTORIC SECTION: _____

Indicators of Impairment (Impoundment)

#	Factor	Description	Present
1	Exotic/Invasive Plants		
2	Excessive Aquatic Vegetation (>50%)		
3	Shoreline Development (>10%)		
4	No Fish Passage		
5	Sedimentation/ Shoaling		
6	Poor Sediment Quality		
7	Shoreline Erosion		
8	Outfall (s)		
9	Non-point		
10	Other WQ problem(s)		
11	Fill/Dumping		
12	Dam Breached or Partially Breached		
13	OTHER		

Impairments noted either upstream or downstream

SUMMARY:

Factor	Rank (H, M, L)	Score
Wildlife		
Aquatic/Fisheries		
Recreational/Historic		
Overall		

Comments including observations of other restoration opportunities:

Restoration Opportunities:

Other Comments:



Photo log

Photo Description view	GPS coordinate	Direction of
1. _____		
2. _____		
3. _____		