

SITE INFORMATION

Site Identifier : CA1RB3 **Landowner Type :** Private
Site Name : Cascade Pond **Landowner Name :**
WRIA : 03.1411B **Address :**
Region : NS **Address2 :**
Trib to : Cascade R **City :**
River Mile : 2.10 **State :**
River System : Cascade R **Zipcode :**
Legal Description : SE1/4S8T35NR11E **Phone :**
County : Skagit
Habitat Type : man-made impoundment

Coordinates

East: 1,783,032.96 **North:** 1,166,674.02

Directions :

Take highway 20 to Marblemount, go over bridge and continue on Cascade Road for 1.5 miles. Pond is located along the right side of the road.

Area Overview :

This is a old mill pond fed by a spring that was made accessible in 1989 by WDF by constructing a new outlet channel.

Field Survey Information

Date : 2/1/95 **Observer :** Barkdull **Survey Type :** initial

HABITAT INFORMATION

Water Source: Spring Groundwater Surface runoff

Flow: Intermittent Year-round

Estimated Flows (cfs): Lower end:1.0
Upper end:1.0

Water Temperature(C): Lower end:
Upper end:

Receiving Water Temperature (C):

Other Observations:

Site Area Measurements: Indirect Direct Combination

Widths: Channel:1.8 Ponds:84 Wetlands:

Depths: Channel:0.1 Ponds: 2.0 Wetlands:

Total length (includes ponds and wetlands):241

Total existing habitat area (est. m2):283

Spawning area:	Mainstem:100	Tribs:	Total:100
Impounded area:	Mainstem:7050	Tribs:	Total:7050
Other rearing area:	Mainstem:283	Tribs:	Total:
Unaccessible habitat:	Mainstem:	Tribs:	Total:

Spawning habitat conditions: None Poor Fair Good Excellent

Describe spawning habitat: Spawning gravel has been added at the inlet and outlet channel.

Rearing habitat conditions: None Poor Fair Good Excellent

Describe pond and other rearing habitat: The short accessible reach on the inlet channel has good cover and woody debris. The pond is wide open and lacks significant cover. The outlet channel is in recovery after construction.

Describe unaccessible habitat:

Wetland type: Bog Marsh Scrub-shrub Forested

Describe:

Flooding potential: Low Medium High

Describe: Site is well above the floodplain of the Cascade except in the lower outlet channel.

FISH INFORMATION

Site entry condition: Poor Fair Good

Describe: Low flows and the swiftness of the Cascade at the mouth may limit acces and attraction to the site at times.

Coho access and use: Juvenile Unknown None Poor Fair Good
Adult Unknown None Poor Fair Good

Describe: Adult use has been evaluated for a number of years and is quite variable depending on the outflow from the site. Smolts have been outmigrant trapped and production has been generally low.

Other species acces and use: Chum Pink Sockeye Chinook Trout

Describe: Steelhead, cutthroat, and bull trout have all been trapped at this site.

ENHANCEMENT OPPORTUNITIES: A new outlet was constructed to allow fish passage in 1989. Gravel was placed in the outlet channel and stumps were submerged in the pond. Site has suffered from very low flows in recent years. Aquatic vegetation has failed to become widely established for unknown reasons and our attempts to plant various species has failed. Adding significant submerged woody debris to provide adequate cover would probably be cost prohibitive.

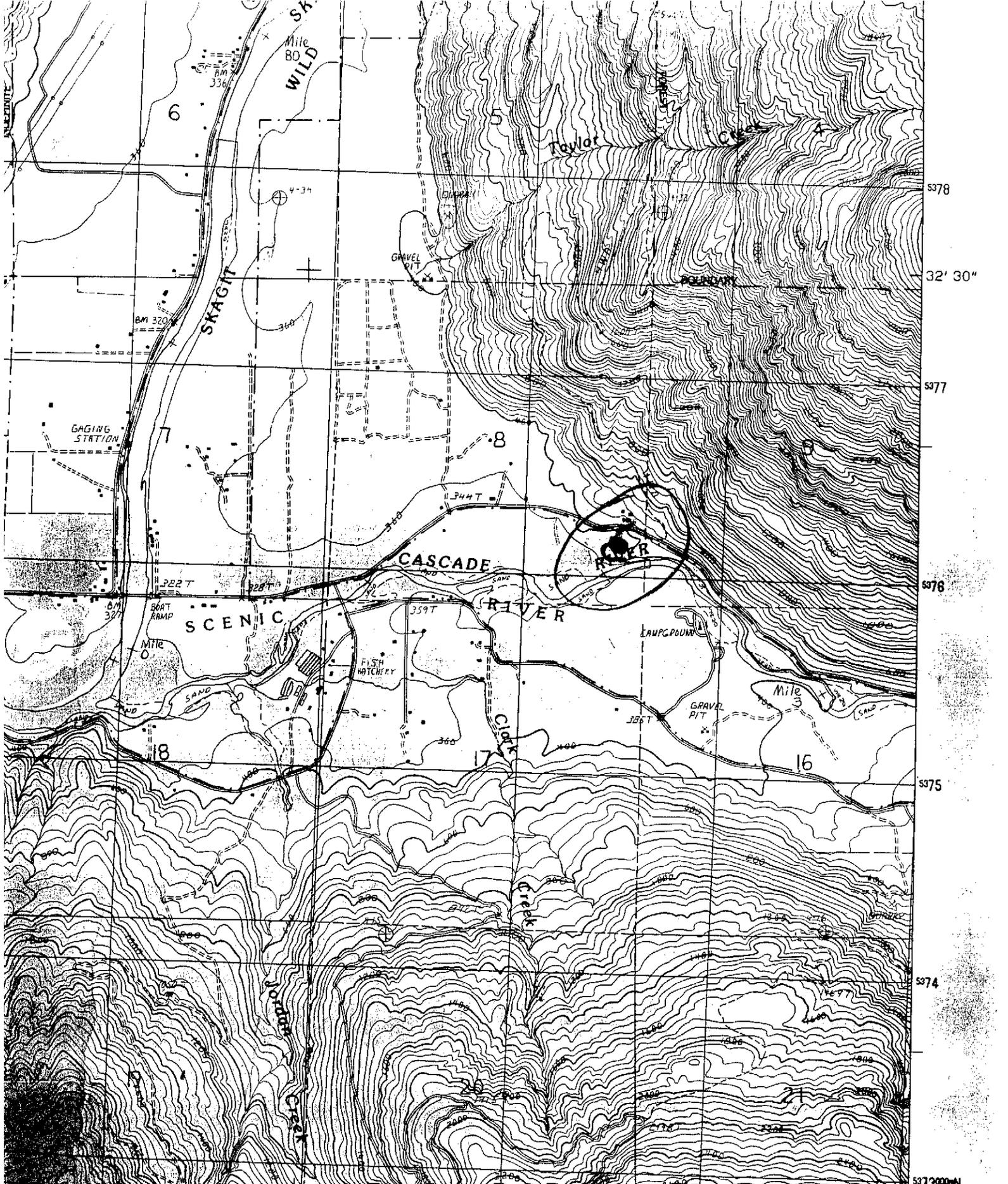
Project type:

Equipment access:

ADDITIONAL COMMENTS

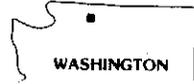
ATTACHMENTS AVAILABLE

Aerials Sketch Maps Spawning Surveys Juvenile Trapping
 Other References



INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1988

Cascade Pond



ROAD LEGEND

5373000mN
48° 30'

CAIRB3

SITE IDENTIFIER:CA1LB3
LOCAL NAME:Cascade Pond

NORTH SOUND OFF CHANNEL SITE INVENTORY DATA

RIVER: ^{Cascade} ~~Shogit~~ SURVEY DATE:2/1/95 OBSERVER:B. Barkdull

WRIA:3.1411B RIVER MILE/BANK LOCATION:RB 2.1

LEGAL LOCATION DESCRIPTION: 1/4 SECTION SE SEC.8 T.35N R.11E

CHANNEL TYPE: Mill Pond

	RIVER	LOW END	UPPER END	O T H E R LOCATIONS
WATER TEMP:				

FLOW (CFS):

WATER QUALITY: Good , spring fed

SUBSTRATE TYPE/SPAWNING GRAVEL ABUNDANCE & CONDITION:
Gravel has been added to the outlet and good gravel exists at the inlet.

COVER/LOD: Cover is recovering, LOD is limited.

SITE DIMENSIONS: LENGTH: Outlet 500'

WIDTH-WETTED:
PONDED AREA: 7,050 m2

DEPTH:

WATER SOURCE: Springs

FISH ACCESS/BLOCKAGES/CURRENT USE (BOTH ADULTS & JUV.):
Current use by adult and juvenile coho

LANDOWNER: Private

CHANNEL ENTRANCE CONDITIONS: Good

FACTORS LIMITING PRODUCTION: Low flow

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NORTH SOUND OFF CHANNEL SITE INVENTORY DATA

UP-OUTMIGRANT TRAPPING CAPABILITY/OPPORTUNITY/DIFFICULTIES:
Was trapped 1990-93

BEAVER ACTIVITY:Some activity at outlet

HEAVY EQUIPMENT ACCESS: good

DIRECTIONS TO SITE: Take hwy 20 to Marblemount, go over bridge and
continue on Cascade road for 1.5 miles

ENHANCEMENT OPPORTUNITIES AND COMMENT:

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was placed in the outlet channel and stumps were submerged in the
pond. Site has suffered from very low flow in recent years.