

**SITE INFORMATION**

**Site Identifier :** CA1LB2 **Landowner Type :** State  
**Site Name :** Hatchery Lane cr. **Landowner Name :** WDFW  
**WRIA :** 03.1411X **Address :**  
**Region :** NS **Address2 :**  
**Trib to :** Cascade R **City :**  
**River Mile :** 1.00 **State :**  
**River System :** Cascade R **Zipcode :**  
**Legal Description :** NW1/4S17T35NR11E **Phone :**  
**County :** Skagit **Coordinates**  
**Habitat Type :** terrace tributary **East:** 1,776,995.31 **North:** 1,164,570.35

**Directions :**  
 Site is located on the east side of Marblemount hatchery just after you turn onto hatchery lane.

**Area Overview :**  
 Site has been ditched, diked, rerouted and dammed up but still provides coho spawning and rearing when access occurs through the hatchery rack.

**Field Survey Information**

**Date :** 2/9/95 **Observer :** Barkdull **Survey Type :** initial

**HABITAT INFORMATION**

**Water Source:**  Spring  Groundwater  Surface runoff

**Flow:**  Intermittent  Year-round

**Estimated Flows (cfs):** Lower end: 0.2  
 Upper end: 0

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

**Receiving Water Temperature (C):**

**Other Observations:**

**Site Area Measurements:**  Indirect  Direct  Combination

Widths: Channel: 2 Ponds:15 Wetlands:  
 Depths: Channel: 0.2 Ponds:0.5 Wetlands:  
 Total length (includes ponds and wetlands): 428

**Total existing habitat area (est. m2):** 1981

Spawning area:	Mainstem:102	Tribs:	Total:102
Impounded area:	Mainstem:1455	Tribs:	Total: 1455
Other rearing area:	Mainstem:526	Tribs:	Total:526
Unaccessible habitat:	Mainstem:	Tribs:	Total:

**Spawning habitat conditions:**  None  Poor  Fair  Good  Excellent

Describe spawning habitat: In the ditched reach below the pond where most of the gravel exists, there is some small gravel with a high percentage of fines. Above the Rockport-Cascade Road is a small amount of better gravel but with still a lot of fines.

Rearing habitat conditions:  None  Poor  Fair  Good  Excellent

Describe pond and other rearing habitat: The pond has excellent habitat with good instream and overhead cover. The outlet has all been ditched, and above the highway cattle access reduces the quality.

Describe unaccessible habitat:

Wetland type:  Bog  Marsh  Scrub-shrub  Forested

Describe:

Flooding potential:  Low  Medium  High

Describe: Site is protected in the upper reaches from most events but the lower reach below the pond is backwatered during moderate events in the Cascade.

#### FISH INFORMATION

Site entry condition:  Poor  Fair  Good

Describe: Hatchery rack at entry.

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

Describe: Adult coho use occurs when fish can squeeze by the hatchery rack during certain flows.

Other species acces and use:  Chum  Pink  Sockeye  Chinook  Trout

Describe: This system does have trout use.

ENHANCEMENT OPPORTUNITIES: A new outlet could be built away from the hatchery outlet that would allow complete fish passage.

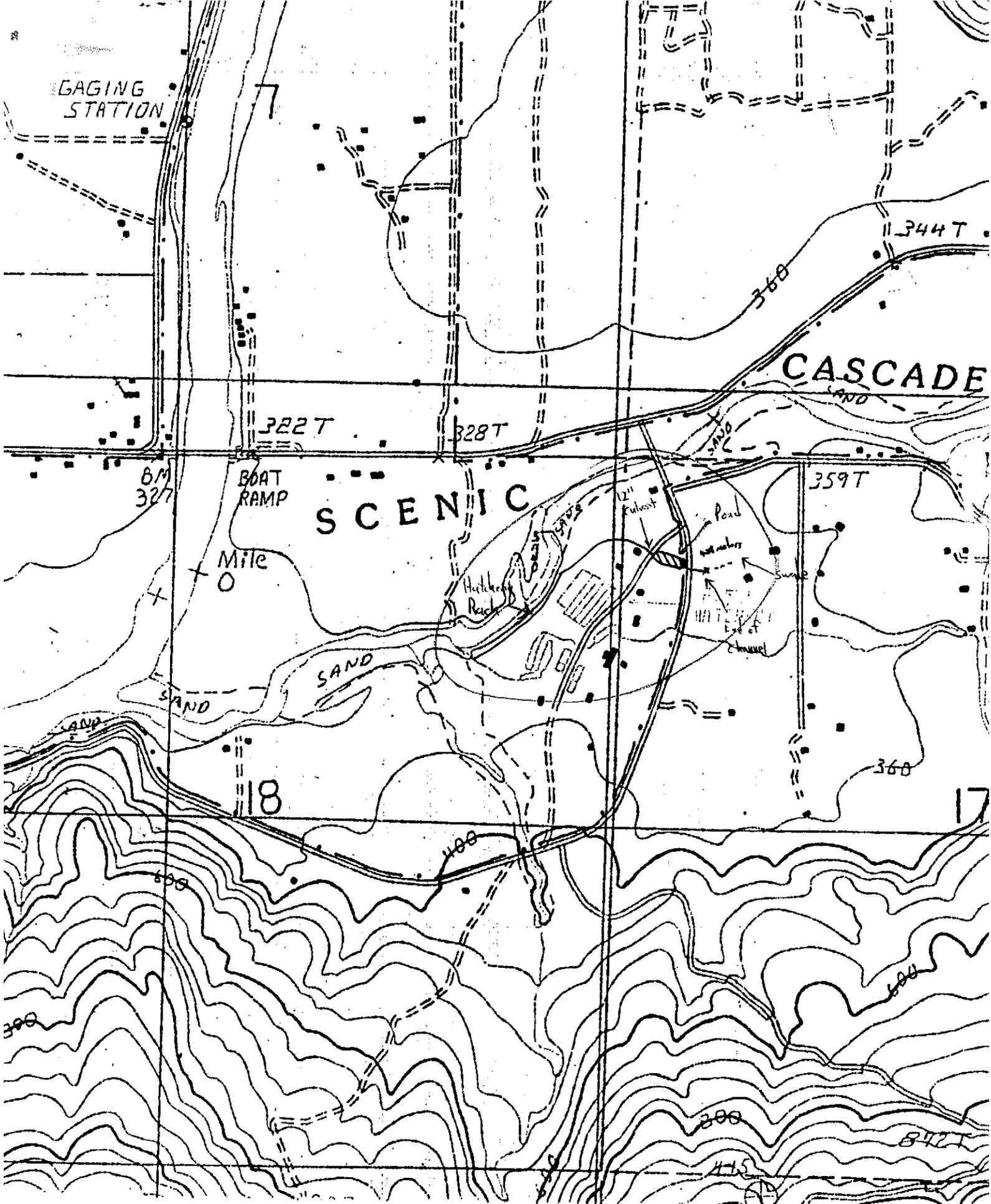
Project type:

Equipment access: Good

ADDITIONAL COMMENTS: This creek has been re-routed from Hatchery Lane down along the Cascade River and into the hatchery outlet.

#### ATTACHMENTS AVAILABLE

Aerials  Sketch  Maps  Spawning Surveys  Juvenile Trapping  
 Other References



SITE IDENTIFIER:CA1LB5  
LOCAL NAME:Hatchery Lane cr.

PAGE 2

NORTH SOUND OFF CHANNEL SITE INVENTORY DATA

UP-OUTMIGRANT TRAPPING CAPABILITY/OPPORTUNITY/DIFFICULTIES:  
None anticipated

BEAVER ACTIVITY: None

HEAVY EQUIPMENT ACCESS: Very good

DIRECTIONS TO SITE: Site is located on the east side of the hatchery just after you turn onto hatchery lane.

ENHANCEMENT OPPORTUNITIES AND COMMENT:

This creek has been rerouted from hatchery lane down along the Cascade river and into the hatchery outlet. There does not appear to be any reason for blocking off access to this creek. It is not used for the hatchery at all. A new outlet could be built away from the hatchery outlet that would allow complete passage. The rerouted section could be graveled and turned back into a productive stream. This work could all be performed on WDFW land. A 75' 12" culvert under Hatchery lane apparently is passable because many adults were observed upstream of here. another idea may be to extend the length of the channel beyond 428 meters depending on the ground water depth. This whole bench has spring water popping out everywhere.

CA1LB2

SITE IDENTIFIER: CA1LB5  
LOCAL NAME: Hatchery Lane cr.

NORTH SOUND OFF CHANNEL SITE INVENTORY DATA

RIVER: Cascade SURVEY DATE: 2/9/95 OBSERVER: B. Barkdull

WRIA: None RIVER MILE/BANK LOCATION: LB 0.4

LEGAL LOCATION DESCRIPTION: 1/4 SECTION NW SEC.17 T.35N R.11E

CHANNEL TYPE: Spring

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

FLOW (CFS): 0.2 cfs 0.1 at highway

WATER QUALITY: very good

SUBSTRATE TYPE/SPAWNING GRAVEL ABUNDANCE & CONDITION:  
Patch gravel over 50% of length, silt in other areas

COVER/LOD: Fair at best in lower end, better at upper end

SITE DIMENSIONS: LENGTH: 428 meters

WIDTH-WETTED: 1.5-15 meters  
WETTED AREA: 1375 m2

DEPTH: up to 4' in pond

WATER SOURCE: Springs or river perc?

FISH ACCESS/BLOCKAGES/CURRENT USE (BOTH ADULTS & JUV.):  
Some small adults are apparently able to squeeze under the hatchery rack at high flows but it isn't apparent how. The hatchery rack should block all juvenile passage.

LANDOWNER: WDFW and private

CHANNEL ENTRANCE CONDITIONS: Very poor because of the hatchery rack

FACTORS LIMITING PRODUCTION: Entrance conditions



- 2/1/95 Huddersley lane ca.  
goes to Huddersley outlet part time
- 0.0 Blockage. No Road?
- 232 Ditched full length 3 m over.
- 256 culvert 12'
- 298 <sup>are 1.5 m width</sup> upper end of culvert & post
- 395 End of pool Area 15 m 8' culvert
- 408 End of culvert
- 428 End of Anadromous zone (A. salina)  
Pore hole width 1.5 m
- 518. End of water, very little  
fish hab.  
Possible enhancement?

**WDF&W - SSHEAR  
PHYSICAL SURVEY OF POTENTIAL HABITAT (Ver. 4c)**

<b>Stream Name:</b>	Hatchery cr	<b>Date:</b>	12/3/02
<b>Tributary To:</b>	Cascade R	<b>Observer(s):</b>	Barkdull
<b>WRIA #:</b>	03.1411X	<b>Section surveyed:</b>	culvert above trash rack to end
<b>Sample Frequency:</b>	60m/reach		0
<b>Survey Method:</b>	RSFS	<b>Filename:</b>	031411X.xls

**Summary of Information - Total Stream Length**

Total Length Surveyed:	428.00 m	Tot. Length Culverted:	55.00 m
Total Length Sampled:	157.00 m	Percent of Stream Length	
Percent Sampled:	36.68 %	Culverted:	12.85 %

Measured Pool Area:	331.94 m <sup>2</sup>	<b>Total Spawning Area:</b>	<b>101.53 m<sup>2</sup></b>
Measured Riffle Area:	193.94 m <sup>2</sup>		
Measured Rapid Area:	0.00 m <sup>2</sup>	<b>Total Rearing Area:</b>	<b>1980.87 m<sup>2</sup></b>
Measured Pond Area:	1455.00 m <sup>2</sup>		
<b>Total Measured Stream Area:</b>	<b>1980.87 m<sup>2</sup></b>		

**POOL : RIFFLE : RAPID : POND RATIO (%)**

Pool= 16.76      Riffle= 9.79      Rapid= 0.00      Pond= 73.45

**PRODUCTION AREA CALCULATIONS**

	Sockeye	Chum	Pink	Coho	SR Cutthroat	Chinook	Steelhead	Res CT/RB	Bull	Brook	Brown
Reach 1	0.00	86.98	0.00	525.87	525.87	0.00	0.00	525.87	525.87	0.00	0.00
Reach 2	0.00	14.55	0.00	1455.00	1455.00	0.00	0.00	1455.00	1455.00	0.00	0.00
Reach 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reach 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reach 5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reach 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reach 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reach 8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reach 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reach 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total area*	0.00	101.53	0.00	1980.87	1980.87	0.00	0.00	1980.87	1980.87	0.00	0.00

\* Spawning habitat used for sockeye, chum and pink, rearing used for all other species.

**ADJUSTED PRODUCTION AREAS**

	Sockeye	Chum	Pink	Coho	SR Cutthroat	Chinook	Steelhead	Res CT/RB	Bull	Brook	Brown
Reach 1	0.00	86.98	0.00	469.97	469.97	0.00	0.00	523.08	523.08	0.00	0.00
Reach 2	0.00	14.55	0.00	1300.33	1300.33	0.00	0.00	1447.29	1447.29	0.00	0.00
Reach 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reach 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reach 5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reach 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reach 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reach 8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reach 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reach 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total area*	0.00	101.53	0.00	1770.31	1770.31	0.00	0.00	1970.37	1970.37	0.00	0.00