

**SITE INFORMATION**

**Site Identifier :** CA1RB2 **Landowner Type :** Private  
**Site Name :** Keller's Springs **Landowner Name :** Keller  
**WRIA :** 03.1411A **Address :**  
**Region :** NS **Address2 :**  
**Trib to :** CA1RB1 **City :**  
**River Mile :** 0.30 **State :**  
**River System :** Cascade R **Zipcode :**  
**Legal Description :** SE1/4S8T35NR11E **Phone :**  
**County :** Skagit  
**Habitat Type :** spring creek

**Coordinates**

**East:** 1,780,969.85 **North:** 1,167,465.78

**Directions :**

Take highway 20 to Marblemount, take a right onto the Cascade River Road and cross the Skagit River, go 1.2 miles to where springs cross the road.

**Area Overview :**

This is a low gradient spring system that runs through pasture land that is extensively used by coho adults and juveniles.

**Field Survey Information**

**Date :** 7/28/91 **Observer :** Barkdull **Survey Type :** initial

**HABITAT INFORMATION**

**Water Source:**  Spring  Groundwater  Surface runoff

**Flow:**  Intermittent  Year-round

**Estimated Flows (cfs):** Lower end: 1  
Upper end:

**Water Temperature(C):** Lower end: 11  
Upper end: 11

**Receiving Water Temperature (C):**

**Other Observations:**

**Site Area Measurements:**  Indirect  Direct  Combination  
 Widths: Channel: 2 Ponds:9 Wetlands:  
 Depths: Channel: 0.08 Ponds:1.0 Wetlands:  
 Total length (ifcludes ponds and wetlands): 625

**Total existing habitat area (est. m2):** 1875

Spawning area:	Mainstem: 200	Tribs:25	Total:225
Impounded area:	Mainstem:	Tribs:362	Total:362
Other rearing area:	Mainstem:363	Tribs:1151	Total:1515
Unaccessible habitat:	Mainstem:	Tribs:	Total:

Spawning habitat conditions:  None  Poor  Fair  Good  Excellent

Describe spawning habitat: Main stem below the cascade road has some good gravel and coarse sand, the left fork some gravel but mostly sand and mud, the right fork mud.

Rearing habitat conditions:  None  Poor  Fair  Good  Excellent

Describe pond and other rearing habitat: The mainstem is stream like with riffles and pools with good riparian cover above the road. Below the road the stream runs through a pasture with large alders on the bank but not much else. The left fork is narrow with moderate to high gradient up to the pond. The pond is man made and sits on a small bench. A spring emanates from the hillside just above. The right fork is low gradient, shallow and wide under a canopy of cedars and firs. A spring emanating from the hillside feeds this fork.

Describe unaccessible habitat:

Wetland type:  Bog  Marsh  Scrub-shrub  Forested

Describe:

Flooding potential:  Low  Medium  High

Describe: Site is all springfed and well protected from the river.

#### FISH INFORMATION

Site entry condition:  Poor  Fair  Good

Describe: Enters into a side channel of the Cascade River.

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

Describe: Juveniles coho were present in large numbers throughout spring system. Heavy use by adult coho has been documented.

Other species acces and use:  Chum  Pink  Sockeye  Chinook  Trout

Describe: Trout were observed in the pond.

ENHANCEMENT OPPORTUNITIES: None

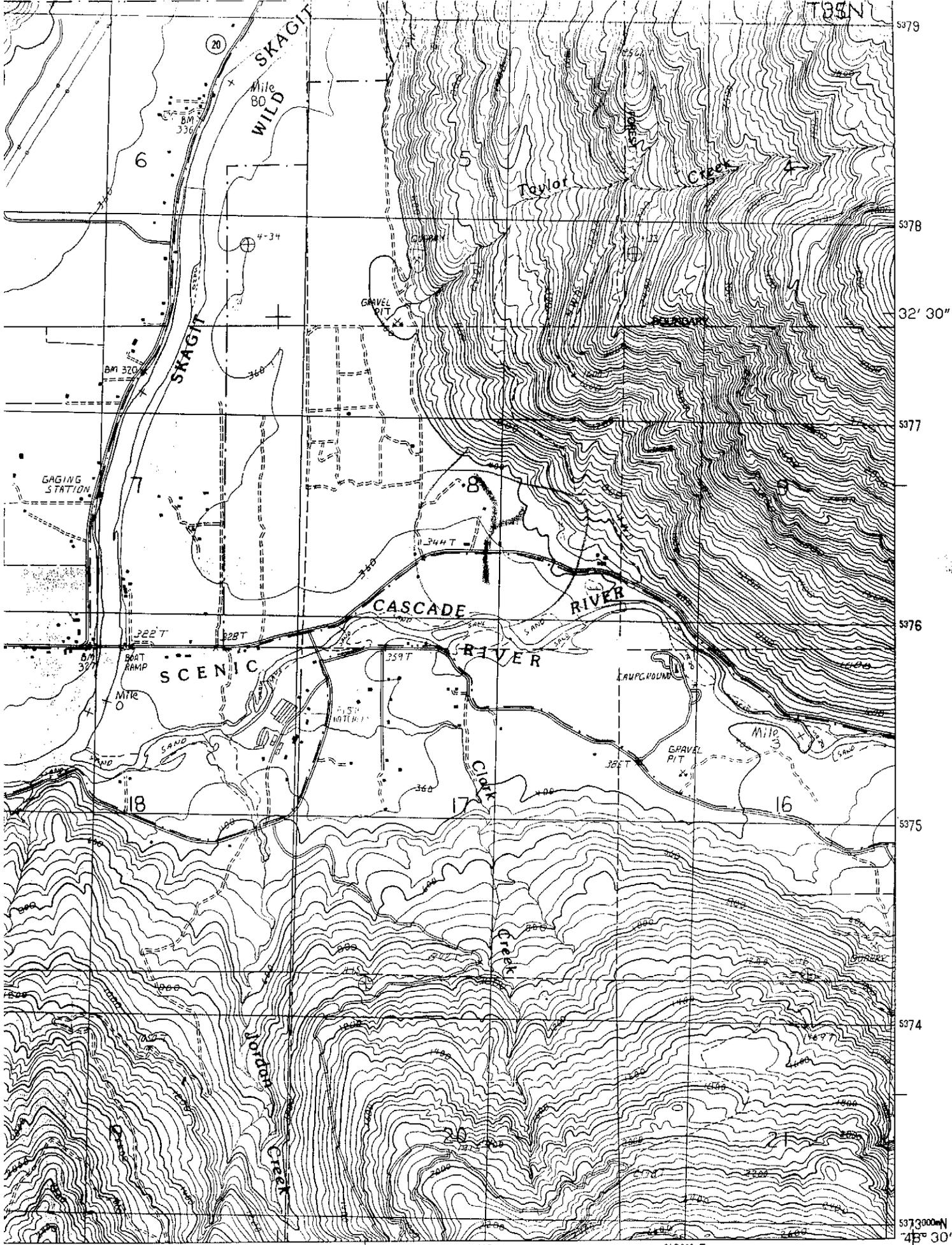
Project type:

Equipment access:

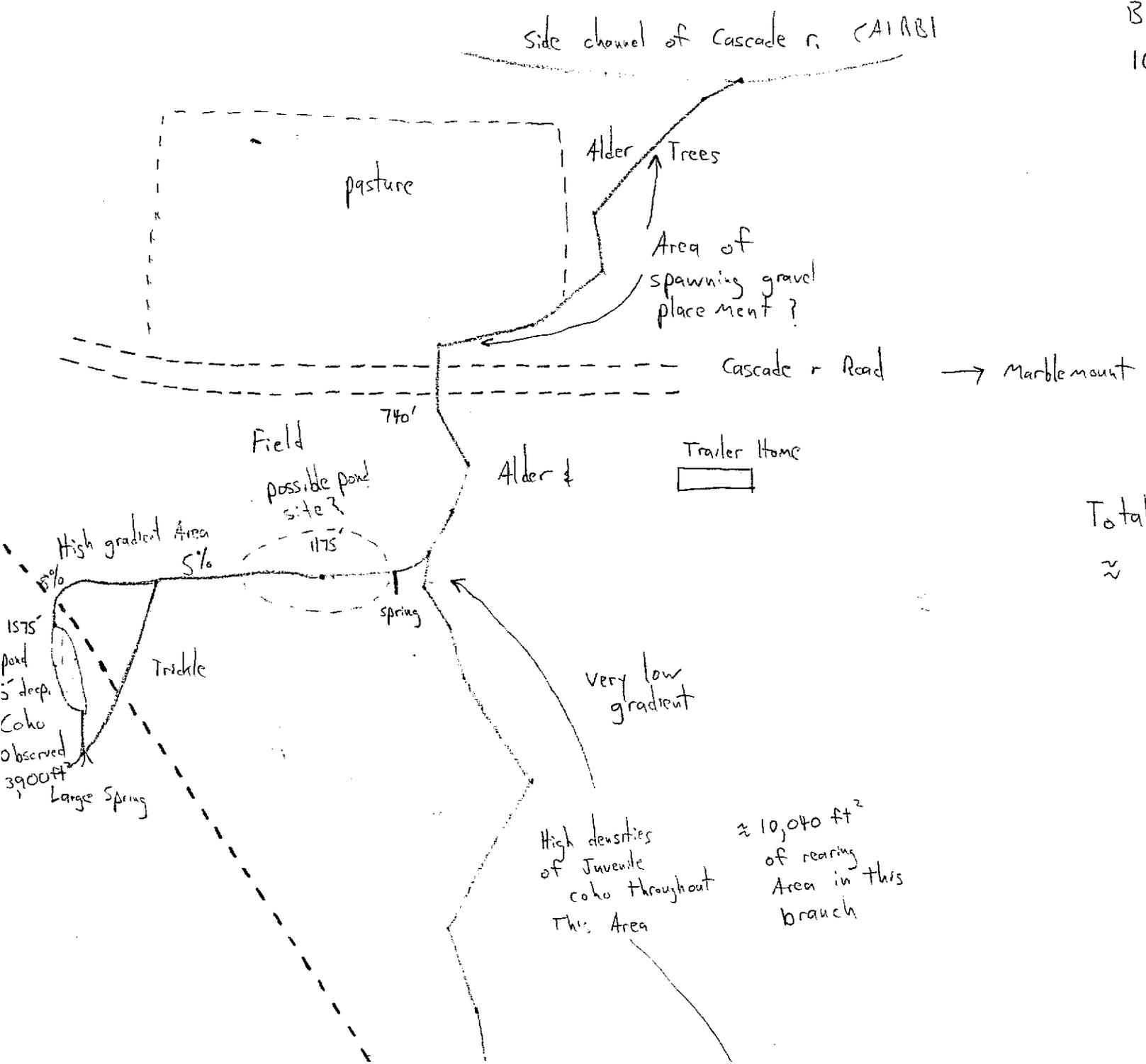
ADDITIONAL COMMENTS: Site is very productive as is. Adults use all available spawning habitat.

#### ATTACHMENTS AVAILABLE

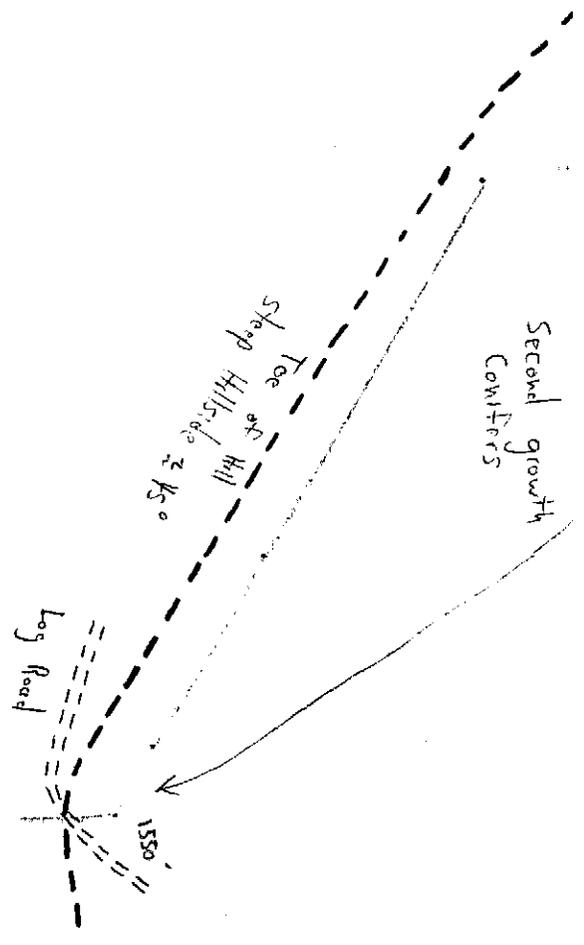
Aerials  Sketch  Maps  Spawning Surveys  Juvenile Trapping  
 Other References



Keller's Springs  
B. Barkdull 1" = 200'  
10-2-91



Total Rearing Area  
≈ 20,350 ft<sup>2</sup>



SITE IDENTIFIER:CA1RB2  
LOCAL NAME:Keller's springs

NORTH SOUND OFF CHANNEL SITE INVENTORY DATA

RIVER: CASCADE SURVEY DATE: 7/28/91 OBSERVER:B. Barkdull

WRIA:03.1411A RIVER MILE/BANK LOCATION: 0.3 RB to CA1RB1

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

CHANNEL TYPE: Springs

	RIVER	LOW END	UPPER END	O T H E R LOCATIONS
WATER TEMP:		11C	11C	
FLOW (CFS):		1 cfs		
WATER QUALITY:		Good/Clear	Good/Clear	

SUBSTRATE TYPE/SPAWNING GRAVEL ABUNDANCE & CONDITION:

Main stem below the cascade road has some good gravel and coarse sand, the left fork some gravel but mostly sand and mud, the right fork mud.

COVER/LOD: Good cover and LOD

SITE DIMENSIONS: LENGTH: 2050'

WETTED AREA: 20,350 ft<sup>2</sup>

DEPTH:Left fork 3"  
Right fork 1"

WATER SOURCE: Series of three springs

FISH ACCESS/BLOCKAGES/CURRENT USE (BOTH ADULTS & JUV.):  
O's throughout springs system. Heavy use by adult coho

LANDOWNER: Keller

CHANNEL ENTRANCE CONDITIONS:

Good, enters side channel (CA1RB1) of Cascade river

FACTORS LIMITING PRODUCTION: None.