

SITE INFORMATION

Site Identifier :	SA7RB2	Landowner Type :	Federal
Site Name :	Outlaw Channel	Landowner Name :	USFS
WRIA :	03.1193B	Address :	
Region :	NS	Address2 :	
Trib to :	Sauk R	City :	
River Mile :	23.00	State :	
River System :	Sauk R	Zipcode :	
Legal Description :	SE1/4S24T32NR9E	Phone :	
County :	Snohomish	Coordinates	
Habitat Type :		East:	1,735,213.17 North: 1,063,938.50

Directions :

Take Sauk Prairie road out of Darrington and go over the Sauk River by Summit Mill. Take right immediately after bridge and go approximately 1.2 miles to where the channel crosses under road via a culvert.

Area Overview :

Site is a seasonal ponded area with a short egress channel fed by a series of wall based springs and ephemeral streams.

Field Survey Information

Date : 11/21/91 **Observer :** Barkdull **Survey Type :** initial

HABITAT INFORMATION

Water Source: Spring Groundwater Surface runoff

Flow: Intermittent Year-round

Estimated Flows (cfs): Lower end:3.0
Upper end:0

Water Temperature(C): Lower end:7
Upper end:

Receiving Water Temperature (C):

Other Observations:

Site Area Measurements: Indirect Direct Combination
Widths: Channel:2 Ponds:10 Wetlands:
Depths: Channel:0.2 Ponds: 1.0 Wetlands:
Total length (includes ponds and wetlands):520

Total existing habitat area (est. m2):1411

Spawning area:	Mainstem:10	Tribs:	Total:10
Impounded area:	Mainstem:1152	Tribs:	Total:1152
Other rearing area:	Mainstem:259	Tribs:	Total:259
Unaccessible habitat:	Mainstem:	Tribs:	Total:

Spawning habitat conditions: None Poor Fair Good Excellent

Describe spawning habitat: Mud bottom above culvert, below culvert road fill falling into stream provides a small amount of spawning habitat.

Rearing habitat conditions: None Poor Fair Good Excellent

Describe pond and other rearing habitat: Below the road crossing the channel is well defined, but has little instream cover and may have been ditch at some time. The road fill backs up a shallow ponded area above the road that has good instream cover with large fir trees on the banks. Above the ponded area is a narrow channel coming from two small intermitted stream and two small springs. Area is soft and marshy. The area above the site was all logged in 1990.

Describe unaccessible habitat:

Wetland type: Bog Marsh Scrub-shrub Forested

Describe:

Flooding potential: Low Medium High

Describe: Site appears to have been overtopped by the river in 1990

FISH INFORMATION

Site entry condition: Poor Fair Good

Describe: The entrance conditions are poor during low flow conditions because the side channel the channel empties into is dry. During moderate flow conditions the side channel is watered up and the entrance conditions are good.

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

Describe: Adults and juveniles have been observed up the culvert. Culvert is not a major problem.

Other species acces and use: Chum Pink Sockeye Chinook Trout

Describe: Trout use is possible.

ENHANCEMENT OPPORTUNITIES

Project type:

Equipment access: Good

ADDITIONAL COMMENTS: Site was once considered for a channel project

ATTACHMENTS AVAILABLE

Aerials Sketch Maps Spawning Surveys Juvenile Trapping
 Other Referencés

Field Survey Information

Date : 6/10/92

Observer : Barkdull

Survey Type : supplemental

A gravel probe conducted in the area above the culvert found that a silt layer of at least six feet exists throughout the

S47RB2

SITE IDENTIFIER: SA12RB1
LOCAL NAME: OUTLAW CHANNEL

NORTH SOUND OFF CHANNEL SITE INVENTORY DATA

RIVER: Sauk SURVEY DATE: 11-21-91 OBSERVER: BB
WRIA: 03-1193B RIVER MILE/BANK LOCATION: 23.0/RB
LEGAL LOCATION DESCRIPTION: 1/4 SECTION se SEC. 24 T. 32n R. 9e
CHANNEL TYPE: Wall base channel (Seasonal)

	RIVER	LOW END	UPPER END	OTHER LOCATIONS
WATER TEMP:	44f			

FLOW (CFS): 3cfs

WATER QUALITY: Good

SUBSTRATE TYPE/SPAWNING GRAVEL ABUNDANCE & CONDITION:
No spawning gravel currently exists.

COVER/LOD:

SITE DIMENSIONS: LENGTH: 1705ft

WIDTH-WETTED:
-CHANNEL:

DEPTH:

WATER SOURCE: Wall base springs at 1175ft to 1750ft, Surface flow 935ft, 1510, 1705. Possible river perc. Channel would be dependant on perc for summer flows.

FISH ACCESS/BLOCKAGES/CURRENT USE (BOTH ADULTS & JUV.):
Juveniles observed to culvert. Culvert passable.

LANDOWNER: Forest Service

CHANNEL ENTRANCE CONDITIONS: Side channel entrance conditions good during mod to high flows. Poor conditions during low flows.

FACTORS LIMITING PRODUCTION: This channel is dry in the summer. No spawning gravel currently exists.

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NORTH SOUND OFF CHANNEL SITE INVENTORY DATA

UP-OUTMIGRANT TRAPPING CAPABILITY/OPPORTUNITY/DIFFICULTIES:

BEAVER ACTIVITY:None

HEAVY EQUIPMENT ACCESS:Very good, Access road parallels site.

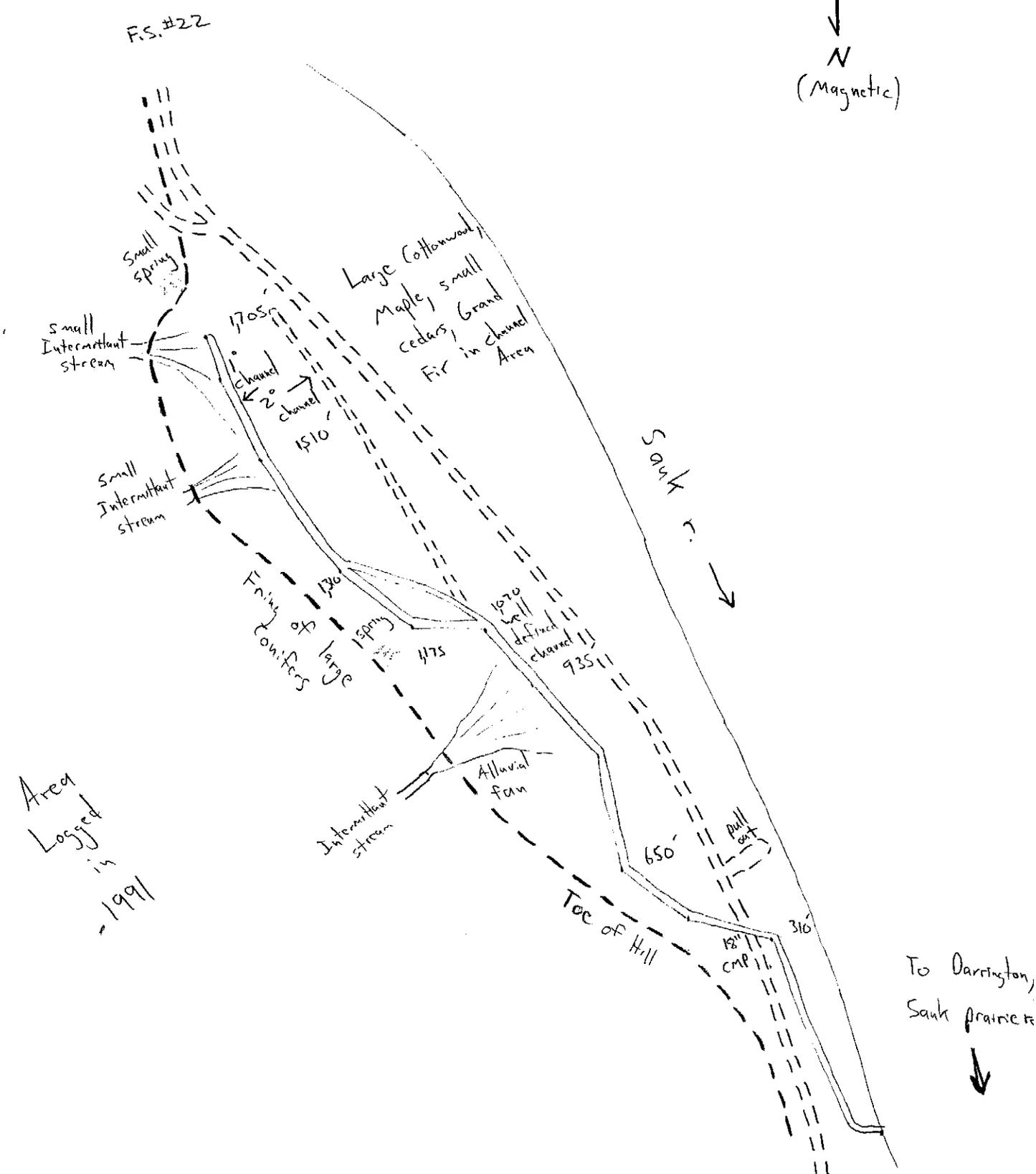
DIRECTIONS TO SITE:Take Sauk prairie road from Darrington, After crossing bridge take a right on F.S. road #22, Go 1.3 miles to site.

ENHANCEMENT OPPORTUNITIES AND COMMENT:Stand pipe data is necessary to determine if river perc can be recruited. This site was first viewed in August of 91. Two springs existed but flow went subsurface after flowing into channel. The entrance conditions are poor during low flow conditions because the side channel the channel empties into is dry. During moderate flow conditions the side channel is watered up and the entrance conditions are good. On 11-21-91 coho O,s were observed using the lower 300ft of the channel. If perc water from the Sauk river is available during low flows this could be a good site for an excavated spawning channel. There is a well defined channel to 1070ft that could be deepened and one of two channels could be excavated to 1700ft. The #1 channel had running water on 11-21, The #2 channel standing water. Water quality appeared good even with the large clear cut directly above the channel on Gold Hill. Some very large conifers in area, But channel could easily be worked around them. Sauk has plenty of gradient in this area. Skunk cabbage are present so wetland characters are a consideration.

Outlaw Channel
11-21-91
B. Barkdull
scale 1" = 200'

Proposed Excavated Area: 34,000 ft²

N
(Magnetic)



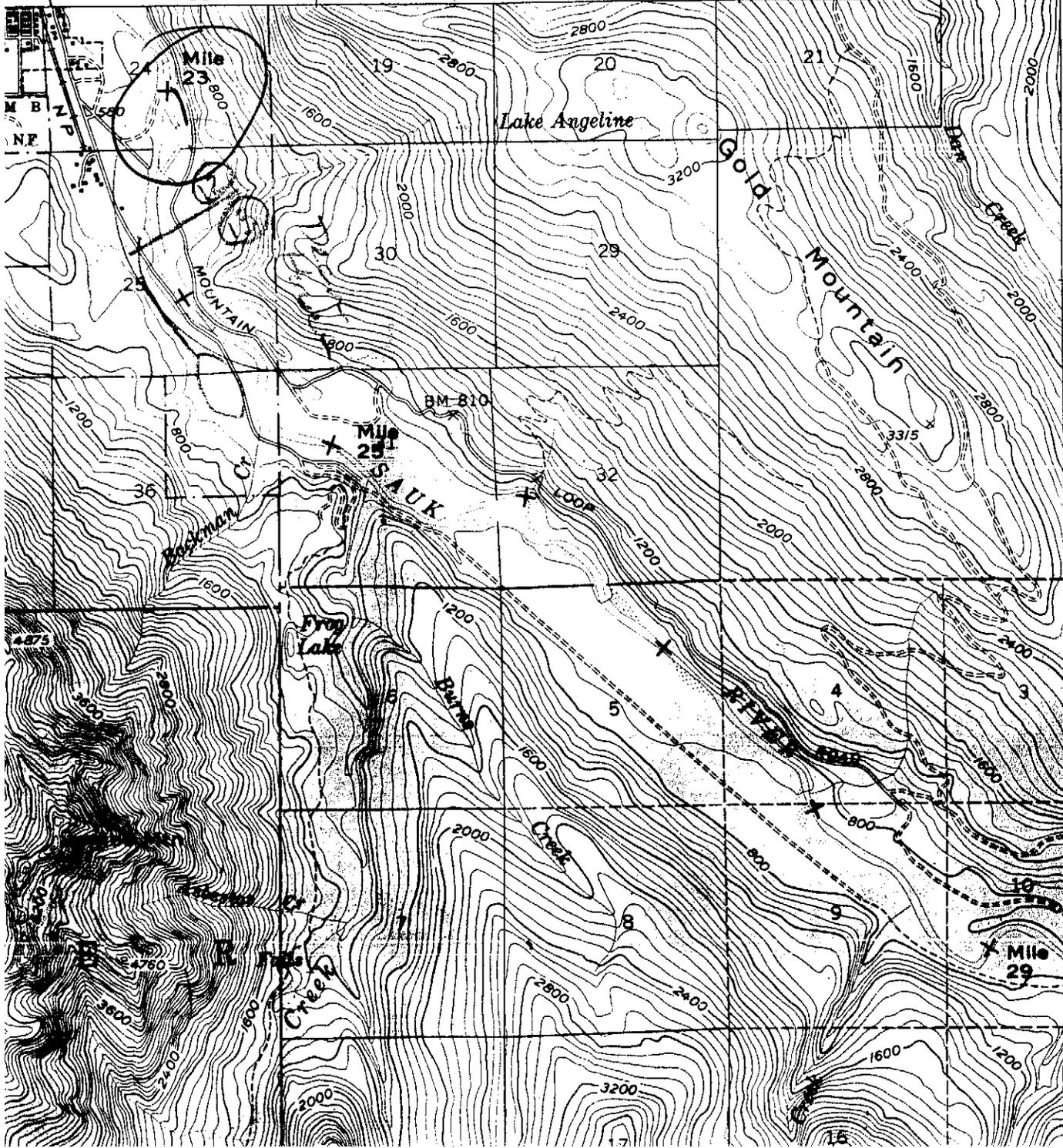
Outlaw channel

1780 III SW
(PRAIRIE MTN.)

Darrington
VES AND GEOLOGY

SILVERTON QUADRANGLE WASHINGTON-SNOHOMISH CO. 15 MINUTE SERIES (TOPOGRAPHIC)

MI 35' 1680 I SE (DARRINGTON 1:24 000) 608 R. 10 E. 1 830 000 FEET 610 121° 30' 48' 15'



5344
T. 32 N.
450 000 FEET
5342
5341
5337
BEDAL 10 MI.
(WHITE CHUCK MTN. 1:24 000)
1780 III NW