SITE INFORMATION

Site Identifier : SU4LB2
Site Name : Big Bear Channel
WRIA : 03.0710X
Region : NS
Trib to : Suiattle R
River Mile : 12.00
River System : Suiattle R
Legal Description : SW1/4S32T33NR11E
County : Skagit
Habitat Type :

Landowner Type : Federal
Landowner Name : USFS, and Indian al.
Address :
Address2 :
City :
State :
Zipcode :
Phone :

Directions :
Take FS 26 up the Suiattle, turn right on FS 25 and cross the river. Go 0.5 miles to an old logging road on the left. This road crosses Boundary creek which is a swamp at this point and continues on to Big Bear channel.

Area Overview :
This is a percolation type channel that is flooded slighly only during extreme events. It provide a moderate amount of over winter habitat but is nearly dry in summer.

Field Survey Information

Date : 02/24/1992 **Observer :** Barkdull **Survey Type :** initial

HABITAT INFORMATION

Water Source: ( ) Spring (X) Groundwater ( ) Surface runoff

Flow: ( ) Intermitent (X) Year-round

Estimated Flows (cfs): Lower end: 2.0
Upper end: 0.5

Water Temperature(C): Lower end: 8
Upper end: 8

Receiving Water Temperature (C):

Other Observations:

Site Area Measurements: ( )Indirect (X) Direct ( ) Combination
Widths: Channel: 1.5 Ponds: Wetlands:
Depths: Channel: 0.1 Ponds: Wetlands:
Total length (includes ponds and wetlands): 711

Total existing habitat area (est. m2): 1066

Spawning area:	Mainstem: 6	Tribs:	Total:
Impounded area:	Mainstem:	Tribs:	Total:
Other rearing area:	Mainstem: 1066	Tribs:	Total: 1066
Unaccessible habitat:	Mainstem:	Tribs:	Total:

Spawning habitat conditions: ( ) None (X) Poor ( ) Fair ( ) Good ( ) Exellent

Describe spawning habitat: Combination of boulders, cobble and fines, one small patch of gravel.

Rearing habitat conditions: ( ) None ( ) Poor ( ) Fair (x) Good ( ) Exellent

Describe pond and other rearing habitat: Balanced pool and riffle ratio, good cover and organic debris.

Describe unaccessible habitat:

Wetland type: ( ) Bog ( ) Marsh ( ) Scrub-shrub ( ) Forested

Describe:

Flooding potential: ( ) Low (X) Medium ( ) High

Describe: One foot of flooding occurred during the November of 1990 flood.

FISH INFORMATION

Site entry condition: ( ) Poor (X) Fair ( ) Good

Describe: Marginal at times, channel enters a Suiattle river side channel which is dry at low flows.

Coho access and use: Juvenile ( ) Unknown ( ) None ( ) Poor ( ) Fair (x) Good
Adult ( ) Unknown ( ) None (X) Poor ( ) Fair ( ) Good

Describe: Moderate number of juveniles on day of survey, and one redd.

Other species acces and use: ( ) Chum ( ) Pink ( ) Sockeye (x) Res. Trout (x) Anad trout

Describe: Trout use probable but unknown

ENHANCEMENT OPPORTUNITIES
A 394 meter excavated groundwater channel may be possible at this site depending on availability of ground water. Maximun flood height is less than one foot at the upper end. No gravel probe was taken but cobble is present at the surface throughout the channel. A shaped berm of excavated materials would provide plenty of flood protection. Access for heavy equipment will require repairing an existing skid road and removal of alder trees to provide access to the lower end of the channel. A portion of the flow in the channel comes from Big Bear #2 which is two shovelfuls of dirt away from connection with the Suiattle. If a channel project is constructed Big Bear #2 should be reconnected to the river.

Project type: Groundwater channel

Equipment access: Fair, an old logging road which will need work comes out at about 333 meters.

ADDITIONAL COMMENTS
3/24/95 This site is intermittently dry in summer. Site was test pitted in Sept. 1994, and an excellent amount of water, and good substrate was found. Site is planned for construction in 1998.

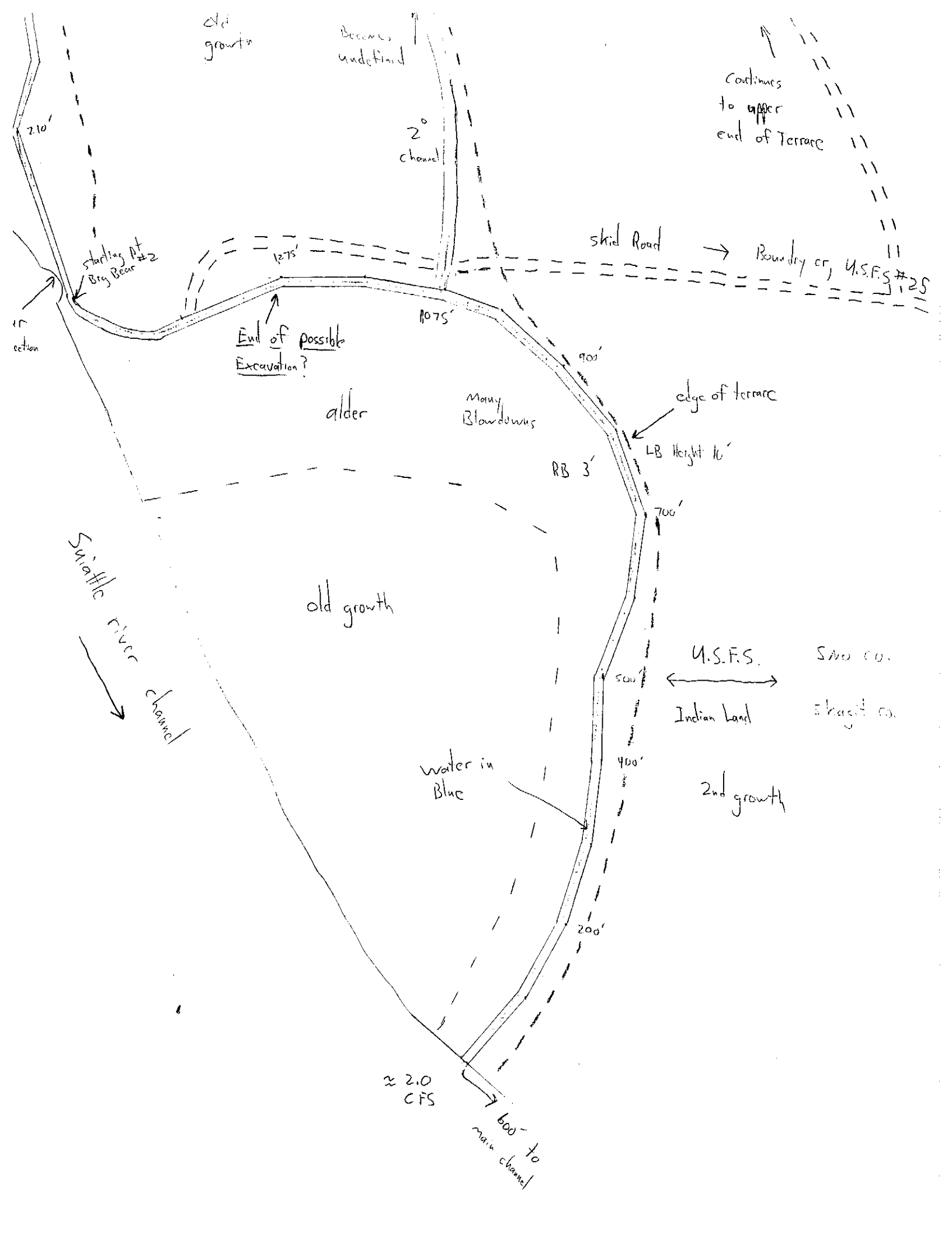
ATTACHMENTS AVAILABLE

(X) Aerials (X) Sketch (X) Maps ( ) Spawning Surveys ( ) Juvenile Trapping
( ) Other References

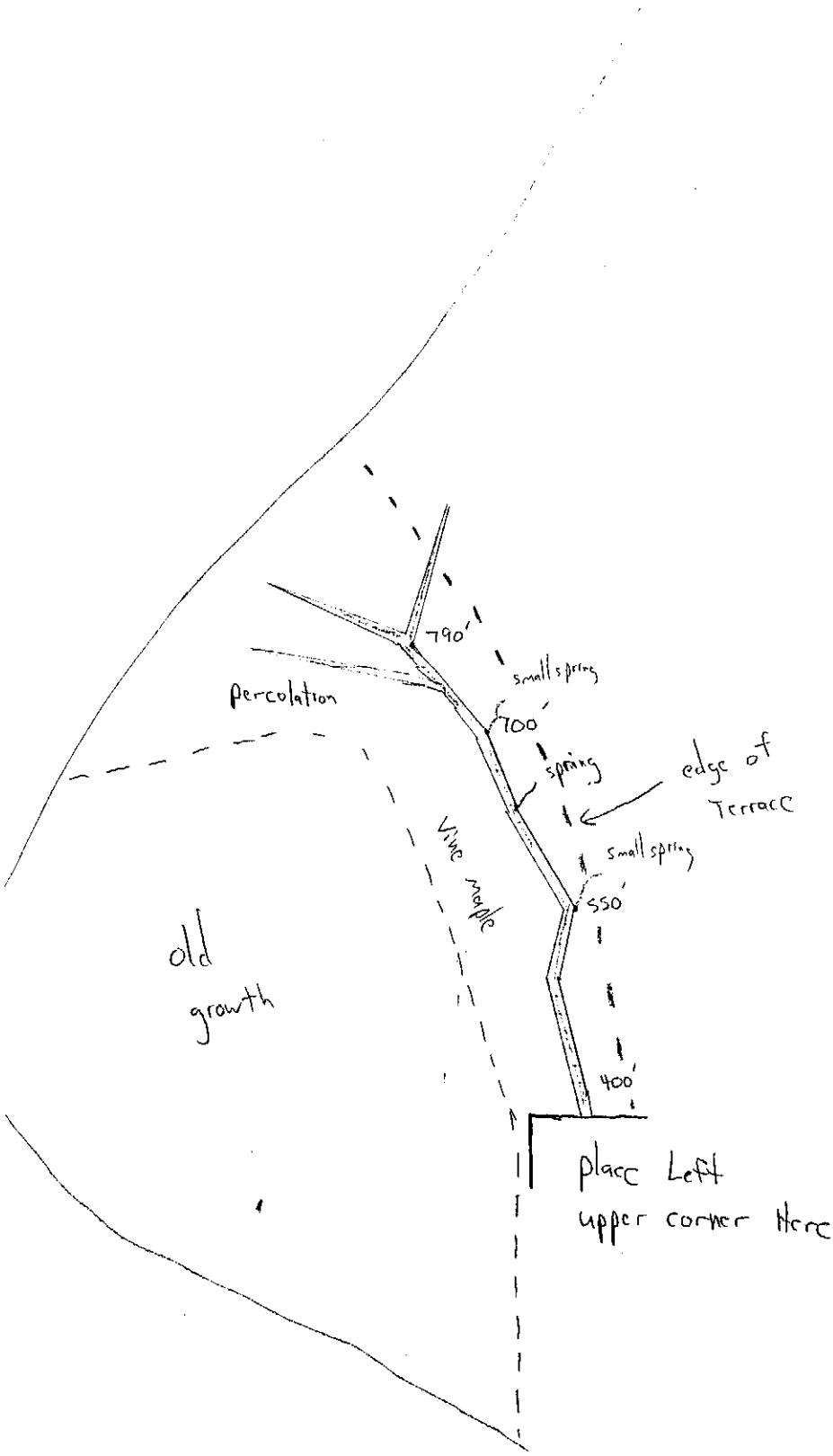
Field Survey Information

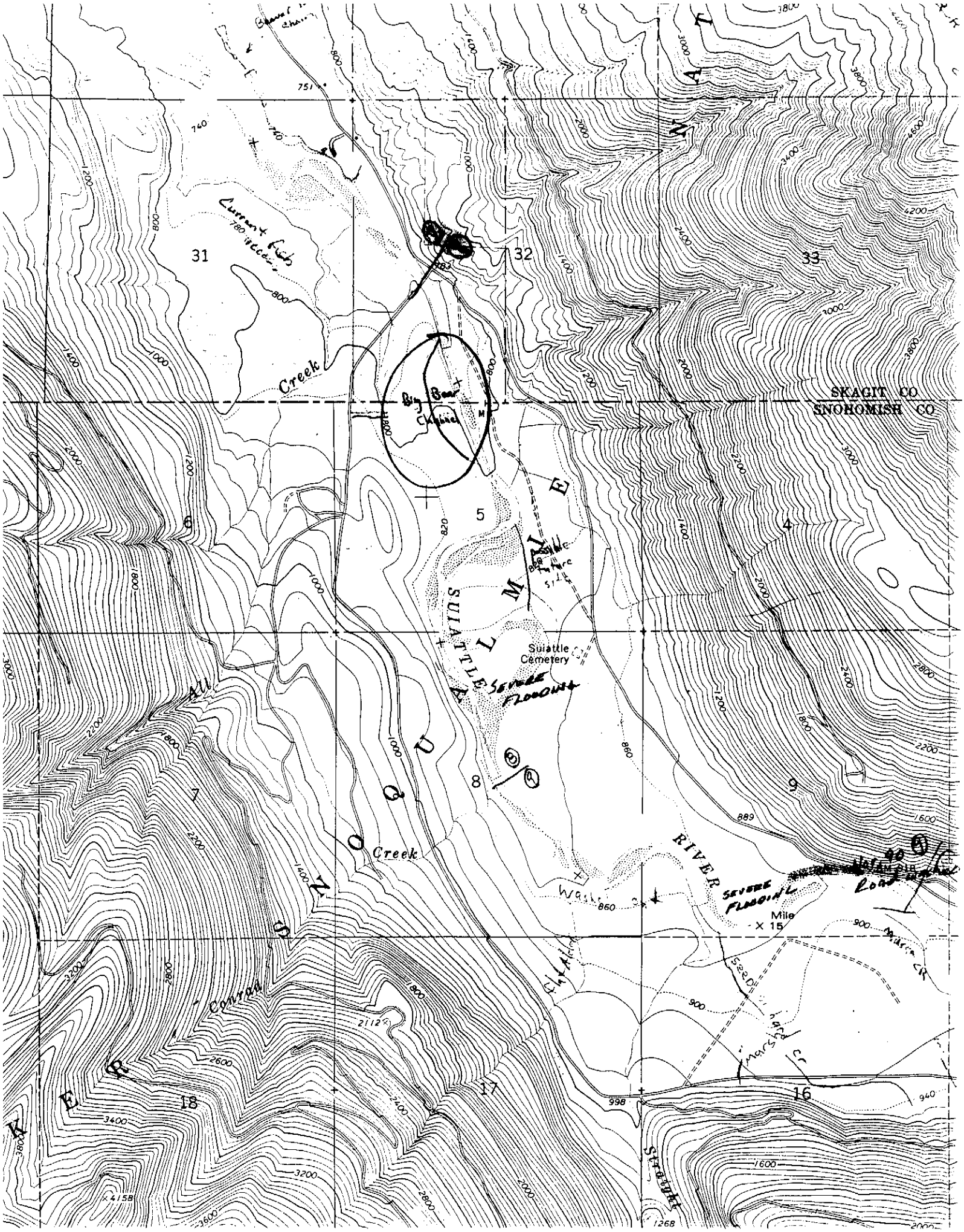
Date : 01/04/1996 **Observer :** Barkdull **Survey Type :** supplemental

Site was observed after the November of 1995 flood. The bench appeared to have been over-topped by at least half a meter and some sand had migrated into the channel. At the upper end a large number of trees had been blown down but it did not appear flooding was the cause because many were snapped off well above the ground. A large portion of the bench near the middle was washed away and the river channel moved dramatically from 1992. Big Bear #2 is now a separate channel with a separate entrance. It was deeply flooded with some force during this event.


old growth
Becomes undefined
Continues to upper end of Terrace
2.10'
2° channel
starting Pt Big Bear #2
1275'
skid Road
Boundry cr, U.S.F.S #25
1075'
End of possible Excavation?
900'
edge of terrace
alder
Many Blowdowns
LB Height 16'
RB 3'
700'
Suiattle river channel
old growth
U.S.F.S.
Snoco.
500'
Indian Land
Skagit co.
water in Blue
400'
2nd growth
200'
≈ 2.0 CFS
600' to main channel

Big Bear channel #1 & 2
2-26-92
B. Barkdull
scale 1" = 150'





SKAGIT CO
SNOHOMISH CO
Big Bear Channel
Current fish
Creek
SUIATTLE
RIVER
Suiattle Cemetery
Severe Flooding
Severe Flooding
Mile X 15
Conrad
Creek
Straight
31
32
33
6
5
4
7
8
9
18
17
16

Local Name: _____ WDF Intensive Off Channel Site Inventory Page ___ of ___

River: Snuttle RM _____ LB ✓ RB _____ 2/24/92 46°

	Station Lineal Ft	Compass° BS/FS	Channel Width(Ft)	Wetted Width(Ft)	Depth(Ft) measured	Flow C.F.S. Average	Gradient (Channel)	RB Height (Ft) Grade	LB Height (Ft) Grade	Coho Juv. Densities	Area Spwn Avail (sq)	Water Vis.(ft.)	Water Sources Perc.Spr.	%P within 20 ft of Bank	Cov. Dom. Sub-dom.	Substrate F,SG,LG, P,B	Dom. Over Story Spp/ Avg. dia.	Excav. Sed. Depth	Bar. Type Height(Ft)	Flood Ht. Above Chan.	Distance to River	Reference Points	Comments:
0° river	0		10/3	3/0.9	1'	≈2		4	4		0	walnut				C,F	2nd growth RB, Alder, 2nd LB		maybe old growth?				Entrance mile ≈600' down site channel & over gravel Bar
0.5	100'	40	15/4.6	5/1.5	1'			4	5	mod	0					F							
.1	200'	30	12/3.7	7/2.1	1'			4	6		0					F,C							
1.4	300	15	20/6.1	6/1.8	1'			3	6		0					F,C							
1.9	400	5°	15/4.6	8/2.4	1			4	4		0					F							
2.4	500	360	15/4.6	6/1.8	6"			4	4		0					F							National forest after this
2.9	600	20	10/3	5/1.5	6"			4	4		0					F,B	Alder in channel old growth beyond						Blow downs
3.3	700	5°	12/3.7	5/1.5	6"			3	10		0					F,B							toe of more defined flat
3.8	800	340	10/3.0	8/2.4	1	≈1		3	12		0					F,B							Blow downs
4.3	900	320	7/2.1	6/1.8	1			10	2.5		50 ft²					F,G,B							level Bench area
4.8	1000	310	8/2.4	6/1.8	1			10	2		0					F,B	Alder, 200' old growth RB						2° channel enters .1 cfs
7.6	1075	290	10/3	4/1.2	6"			4	2		0					F,B				Flood water level with RB Height			old Road comes in Here from Boundary cr.
8.1	1175	280	10/3	4/1.2	2"			4	2		0					F							
8.6	1275	270	10/3	4/1.2	6"			4	2		0												Pickable Max. extent of channel
9.7	1400	250	12/3.7	2/0.6	4"	.5		4	3														1290' road crosses channel
10.3	1530	280	8/2.4	2/0.6	6"																		end of channel to river
																							channel curving
								LB	RB														

Local Name: Bear channel #2 WDF Intensive Off Channel Site Inventory Page ___ of ___

River: Snoqualmie RM ___ LB ✓ RB ___ 2/26/92

	Station Lineal Ft	Compass BS/FS	Channel Width(Ft)	Wetted Width(Ft)	Depth(Ft) measured	Flow C.F.S.	Gradient (Channel)	RB Height (Ft)Grade	LB Height (Ft)Grade	Coho Juv. Densities	Area Spwn Avail.	Water Vis.(ft.)	Water Sources Perc.	% Lawns SG Gra.	Cov. Dom. Sub-dom.	Substrate F, SG, LG,	Dom. Over Story-Spp/ Avg. dia.	Excav. Sed. Depth	Bar. Type Height(Ft)	Flood Ht. Above Chan.	Distance to River	Reference Points	Comments: see Bear #1
3	0		4.6/15	.4/3	4'	.2		2	4	mod	0	w/limit				F							Alder 4-12"
64	210	340	1.3/4	.9/3	6"			2	2		0					T							avg. width ≈ 5G
91	300	15	3/10	.9/3	6"			2	3						Old fourth with alder	Next to channel							Vine maple
122	400	350	3/10	.9/3	6"			4	4							F							
147	490	345	3/10	1.3/4	3"			4	4							F							log Jam (very old)
168	550	10	4.6/15	1.5/5	6"			5	4														or possible bridge
95	640	325	3/10	.9/3	8"			4	4														Small spring
13	700	346	3/10	1.2/4	5'			3	3						probable cut of project channel					1'			small spring
41	790	320																					spring, RB channel
																							RB at 750