

SITE INFORMATION

Site Identifier : NS1RB2	Landowner Type : Private
Site Name :	Landowner Name : Pilchuck Tree Farm
WRIA : 05.0139X	Address :
Region : NS	Address2 :
Trib to : Koonz Cr	City :
River Mile : 3.60	State :
River System : NF Stillaguamish	Zipcode :
Legal Description : NW1/4S12T32NR5E	Phone : 360 652-7565
County : Snohomish	
Habitat Type : lower valley wall tributary	

Coordinates	
East: 1,607,505.00	North: 1,077,346.00

Directions :

From I-5 take the Stanwood/Camano Island exit and turn right, follow road to intersection with Highway 9. Continue straight on the Grandview road for approximately four miles turn left on the Cedarvale Loop road, then turn left on the Bumgarner Road. Road will cross Koonz Creek, where it crosses site is downstream approximately 0.2 miles.

Area Overview :

Site is a small, low gradient surface stream with a relic beaver pond at the head that provides excellent spawning and rearing habitat for all species with access.

Field Survey Information

Date : 4/10/00 **Observer :** Barkdull **Survey Type :** initial

HABITAT INFORMATION

Water Source: Spring Groundwater Surface runoff

Flow: Intermittent Year-round

Estimated Flows (cfs): Lower end:0.8
Upper end:0

Water Temperature(C): Lower end:9
Upper end:9

Receiving Water Temperature (C): 9

Other Observations:

Site Area Measurements: Indirect Direct Combination

Widths: Channel: **Ponds:** **Wetlands:**

Depths: Channel: **Ponds:** **Wetlands:**

Total length (includes ponds and wetlands):1506

Total existing habitat area (est. m2):1898

Spawning area:	Mainstem: 999	Tribs:	Total: 999
Impounded area:	Mainstem:	Tribs:	Total:
Other rearing area:	Mainstem: 1898	Tribs:	Total: 1898
Unaccessible habitat:	Mainstem:	Tribs:	Total:

Spawning habitat conditions: None Poor Fair Good Excellent

Describe spawning habitat: See rearing habitat description.

Rearing habitat conditions: None Poor Fair Good Excellent

Describe pond and other rearing habitat: The first 513 meters is 5% gradient with a mix of small pools, riffles and short rapids, this reach has excellent cover and woody debris and some spawning habitat. The next 517 meters is lower gradient with many pools and excellent spawning gravel throughout. The right bank has a thin buffer along a sizable clearcut. Very good woody debris throughout. The remaining habitat is very low gradient first with braided channels and then eventually ending as a forested wetland that was once a beaver pond but the dam is now gone. Good cover and woody debris with little spawning habitat in this reach.

Describe inaccessible habitat:

Wetland type: Bog Marsh Scrub-shrub Forested

Describe: At the extreme upper end of the site is the remains of a beaver pond; the dam failed several years ago based on the age of the hardwoods colonizing the area. Much of the old pond site is mucky, with a mix of aquatic vegetation growing in the channels and willow and alder colonizing higher ground.

Flooding potential: Low Medium High

Describe: A very stable looking stream.

FISH INFORMATION

Site entry condition: Poor Fair Good

Describe: Good access from Koonz creek

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

Describe: When the site was mapped no coho were observed. Fish access was partially blocked by a culvert on Koonz creek but access has been restored in 2002 by SSHEAR.

Other species access and use: Chum Pink Sockeye Chinook Trout

Describe: Newly emergent sea-run cutthroat were present in impressive numbers throughout the spawnable reaches.

ENHANCEMENT OPPORTUNITIES: None

Project type:

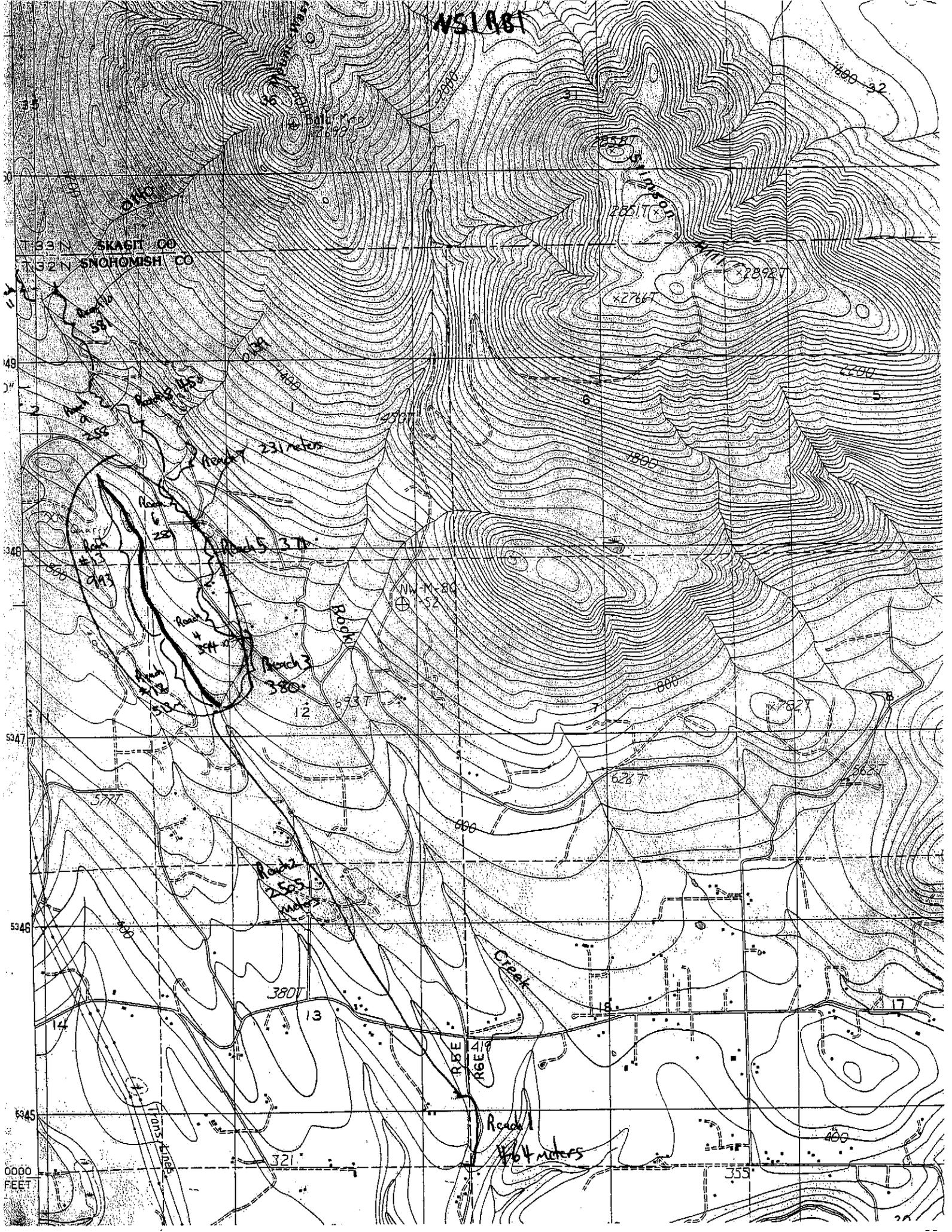
Equipment access:

ADDITIONAL COMMENTS

ATTACHMENTS AVAILABLE

Aerials Sketch Maps Spawning Surveys Juvenile Trapping
 Other References

WS1981



NS1 A02

4/10/02 ~~...~~ 0.200
 1st w/ ... on LR
 2nd ... 90% Candy 5%
 Boulder to ... 20 ... 20
 0

7.9	1.6	2.5	0.06	Ref
9.8	2.1	4.0	0.11	Ref
16.5	2.3	4.2	0.03	Ref
18.3	2.0	3.9	0.10	Ref
20.5	2.2	2.5	0.08	Ref
32.1	2.2	3.1	0.10	Gas
39.7	2.7	3.3	0.04	Ref
42.1	3.3	4.0	0.06	Gas
44.0	2.0	2.5	0.08	Ref
54.7	1.8	2.5	0.06	Ref
56.9	3.3	5.0	0.09	Ref
59.0	2.3	3.1	0.06	Ref
62.0	2.1	3.0	0.10	Ref

4/10/21 same trap above by
boat @ clear cut 0.4 of
fish everywhere - CT 4/5

0				
3.3	1.3	2.0	0.3	R:F
5.9	1.5	1.9	.08	R:F
9.6	2.8	2.9	.02	R:F
12.6	3.2	3.5	.35	R:F
19.6	1.5	2.1	.10	R:F
22.0	3.0	3.2	.21	R:F
25.0	1.6	2.1	.03	R:F
28.1	2.5	2.6	.11	R:F
32.5	1.8	1.9	.06	R:F
34.5	1.9	2.0	.08	R:F
39.0	1.4	2.0	.01	R:F
41.1	1.4	1.8	.10	R:F
53.0	1.7	1.5	.08	R:F

Cont

54.6	1.3, 1.9, 1.1	Red
59.4	1.4, 1.2, 1.06	Rif
60.0	1.3, 2.0, 1.06	Red

Boulders 5, Cobble 0, Gravel 70
Sand 25

3% gradient

Reach # 13 993 m

X 1607505

Y 1077346

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

Stream Name: none Date: 04/10/00
 Tributary To: Koonz creek Observer(s): B. Barkduill
 WRIA #: 05.0138A Section surveyed: Koonze trib
 Sample Frequency: 60 meters/reach 0
 Survey Method: 4 File: 05138A

Summary of Information - Total Stream Length

Total Length Surveyed: 1026.00 m Tot. Length Culverted: 0.00 m
 Total Length Sampled: 120.00 m Percent of Stream Length
 Percent Sampled: 11.70 % Culverted: 0.00 %

Measured Pool Area:	469.01 m ²	Total Spawning Area: 999.01 m² Total Rearing Area: 1898.61 m²
Measured Riffle Area:	1278.48 m ²	
Measured Rapid Area:	329.18 m ²	
Measured Pond Area:	0.00 m ²	
Total Measured Stream Area:	2076.67 m²	

POOL : RIFFLE : RAPID : POND RATIO (%)

Pool= 22.58 Riffle= 61.56 Rapid= 15.85 Pond= 0.00

PRODUCTION AREA CALCULATIONS

	Sockeye	Chum	Pink	Coho	Cutthroat	Chinook	Steelhead	Res CT/RB	Bull	Brook	Brown
Reach 1	0.00	0.00	0.00	1099.43	1099.43	0.00	1099.43	1099.43	1099.43	0.00	0.00
Reach 2	0.00	0.00	0.00	799.18	799.18	0.00	799.18	799.18	799.18	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	0.00	0.00	1898.61	1898.61	0.00	1898.61	1898.61	1898.61	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	Cutthroat	Chinook	Steelhead	Res CT/RB	Bull	Brook	Brown
Reach 1	0.00	0.00	0.00	972.34	972.34	0.00	972.34	1093.61	1093.61	0.00	0.00
Reach 2	0.00	0.00	0.00	706.79	706.79	0.00	706.79	794.94	794.94	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	0.00	0.00	1679.13	1679.13	0.00	1679.13	1888.55	1888.55	0.00	0.00