

# Barrier Evaluation Form – Single Culvert at Crossing

## Location Information

Project Name: <b>Floodplain side channel connectivity (FC 14 Cedar Grove)</b>		SRFB Project #: <b>15-1166</b>	County: <b>Skagit</b>
HPA #: <b>NA</b>		Parcel #: <b>NA-in Skagit County ROW</b>	
GPS Location: Datum - <b>WGS84 -decimal degrees</b>		Latitude: <b>48.52786</b>	Longitude: <b>-121.73797</b>
¼ Section: <b>NW 1/4</b>	Section: <b>14</b>	Township: <b>35N</b>	Range: <b>8</b> <input checked="" type="checkbox"/> East <input type="checkbox"/> West
Stream Name: <b>Ovenell Springs</b>		Tributary To: <b>Skagit River</b>	WRIA #: <b>04.0176x</b>
Driving Directions: <b>from I-5 take exit 230 to HWY 20 east, turn right onto Concrete-Sauk Valley RD and travel about 3 miles, turn right onto Cedar Grove Avenue and continue about 1000 yards.</b>			

## Landowner Information

Landowner: <b>Skagit County Roads - ROW</b>		Mailing Address: <b>1800 Continental Place</b>	
City: <b>Mount Vernon</b>	State: <b>WA</b>	Zip: <b>98273</b>	Telephone: ( )
Cell: ( )	Fax: ( )	E-mail:	
Landowner Agent: <b>Jeff McGowan</b>		Mailing Address: <b>as above</b>	
City:	State:	Zip:	Telephone: <b>(306) 419-3427</b>
Cell: ( )	Fax: ( )	E-mail: <b>jeffmc@co.skagit.wa.us</b>	

## Evaluator Information

Evaluator Name: <b>Bengt Miller/Sue Madsen</b>		Affiliation: <b>SFEG</b>	
Mailing Address: <b>P.O. Box 2497</b>		City: <b>Mount Vernon</b>	State: <b>WA</b> Zip: <b>98273</b>
Telephone: <b>360-336-0172</b>	Fax: <b>360-336-0701</b>	Cell: <b>360-391-5898</b>	E-mail: <b>smadsen@skagitfisheries.org</b>

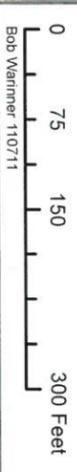
## Barrier Information (measurements in meters)

Is the Stream Fish-bearing? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Species: <b>Coho, Chinook</b>	Date of Visit: <b>3/31/2015</b>
Fish-bearing Criteria: <input checked="" type="checkbox"/> Fish Observation <input type="checkbox"/> Stream Type <input type="checkbox"/> SASSI/Stream Catalog <input type="checkbox"/> Physical Criteria <input checked="" type="checkbox"/> Other: <b>WDFW SSHEAR survey</b>			
Stream Flow: <input checked="" type="checkbox"/> Perennial <input type="checkbox"/> Intermittent <input type="checkbox"/> Unknown Source of Information:			
Will this Culvert be entered into the WDFW-FPDSI (formerly SSHEAR) Database? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, Site ID #: <b>Already in database as FC14</b>			
Shape: <b>RND</b>	Material: <b>CMP</b>	Apron: <input checked="" type="checkbox"/> None <input type="checkbox"/> Upstream <input type="checkbox"/> Downstream <input type="checkbox"/> Both	Span: <b>0.55m</b>
Rise: <b>0.55m</b>	Length: <b>25.5m</b>	Water Depth in Culvert: <b>0.55m</b>	Water Surface Drop: <b>None</b>
Drop Location: <input type="checkbox"/> Outlet <input type="checkbox"/> Inlet <input type="checkbox"/> Inside	Countersunk: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown		Culvert Slope(%): <b>0.24%</b>
Bankfull Width (outside influence of culvert): <b>25m</b>		Culvert Span/Bankfull Width Ratio: <b>0.022</b>	
Plunge Pool: Length (culvert to tail-out): <b>9m</b> OHW width: <b>17m</b> Max depth: <b>0.85m</b>		Road Fill DS: <b>4.93m</b>	Road Width: <b>11.4m</b>
Fishway Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if yes, describe in Comments)		Tide Gate Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	
Is this Culvert a Fish Passage Barrier? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown <input type="checkbox"/> Level B needed			
Problem with Culvert: <input type="checkbox"/> WS drop <input type="checkbox"/> Slope <input checked="" type="checkbox"/> Velocity <input type="checkbox"/> Depth		Percent Passability: <input type="checkbox"/> 0% <input checked="" type="checkbox"/> 33% <input type="checkbox"/> 67% <input type="checkbox"/> 100%	
Habitat Quality: <input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Poor <input type="checkbox"/> Unknown			

Comments (describe crossing condition, fish observations, habitat quality etc):

Severely undersized and deteriorating culvert below deep fill. Culvert is submerged, can't see through so unclear if there is a blockage or not. Many 6" smolts observed. Culvert is located within road that access WDFW recreational land. WDFW conducted habitat surveys at this site in 1989, and again in 1996 as part of the SSHEAR program, and noted that the site provided high-quality spring-fed habitat. Notes are attached.

# Ovenell Springs Parcel Map



Bob Wanner 110711



GOERINGER EDWIN A

OVENELL-CARTER KARIN N ETAL

ROAD MAX 1

STATE DEPT OF GAME

OVENELL-CARTER KARIN N ETAL

CEDARGROVE MAINTENANCE CO

RUNKLE ELIZABETH FLEMING TRUST

BUCHER SCOTT K

BURGESS FREDERICK A

FOSTER GENE N

WELLS DAVID E

BEDKER ROBERT L

SLIPPER FRED W

BEMKE THOMAS J

LAVELLE THOMAS M

KELLER JANITA A

MEYER DONALD R

NEUSER EARL R

WEENSTRA ROBERT

NEESON NORMAN N

GERRANS WILBUR

MCILRAITH DAVID E

GERRANS GLEN

HALPERSON TRUST

RODIN FAMILI

SPADLBROOK E DELORES

HINZE KEITH W

CALENDER JOE G JR

SLOAN HOWARD A

PRESSLER FRANK

WATTS RUTH KRISTEN

AMBRY RONNIE J

DEWELZMAERE JEAN P

MANSSON STIG

FREITAS KATHLEEN

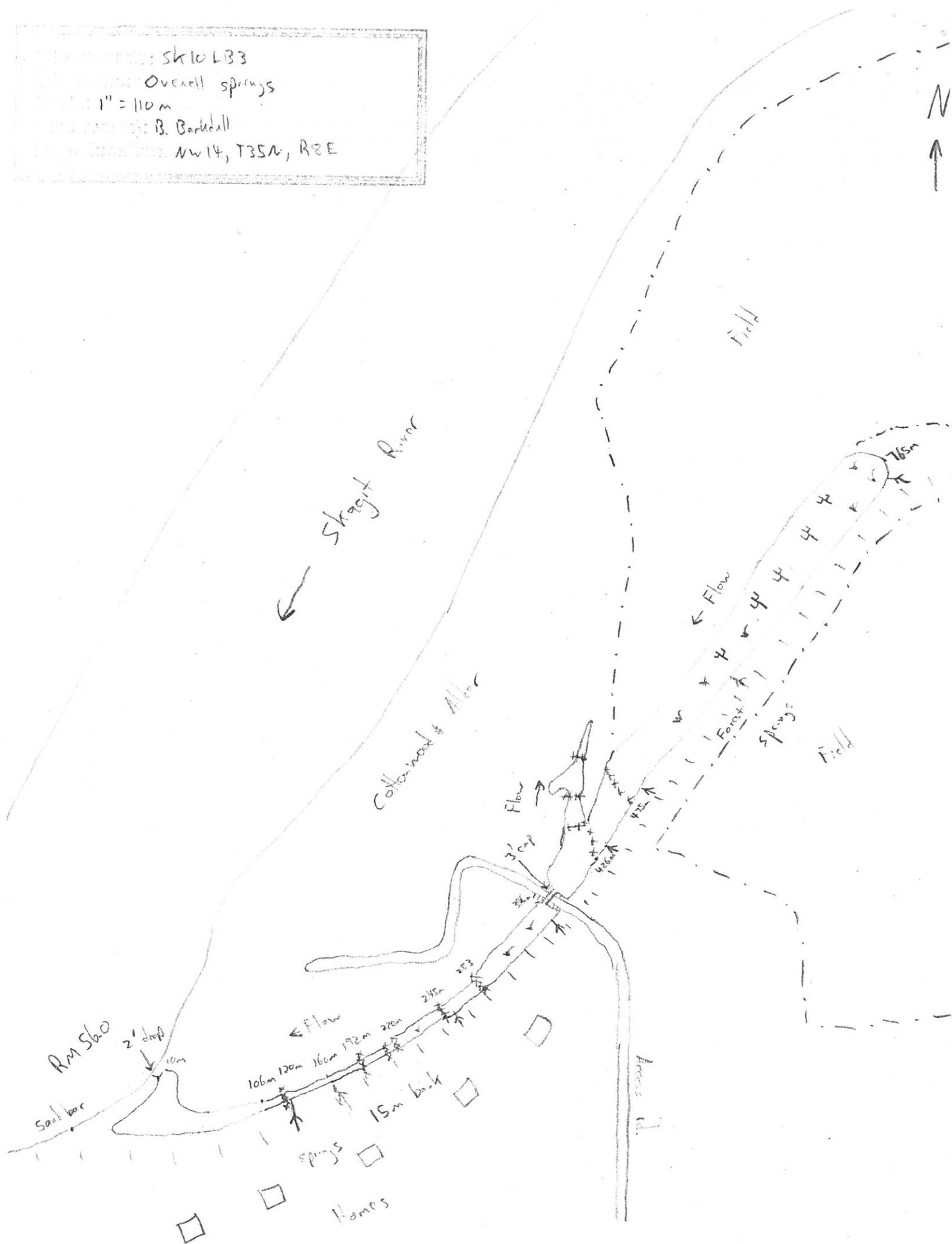
COLMAN PETER

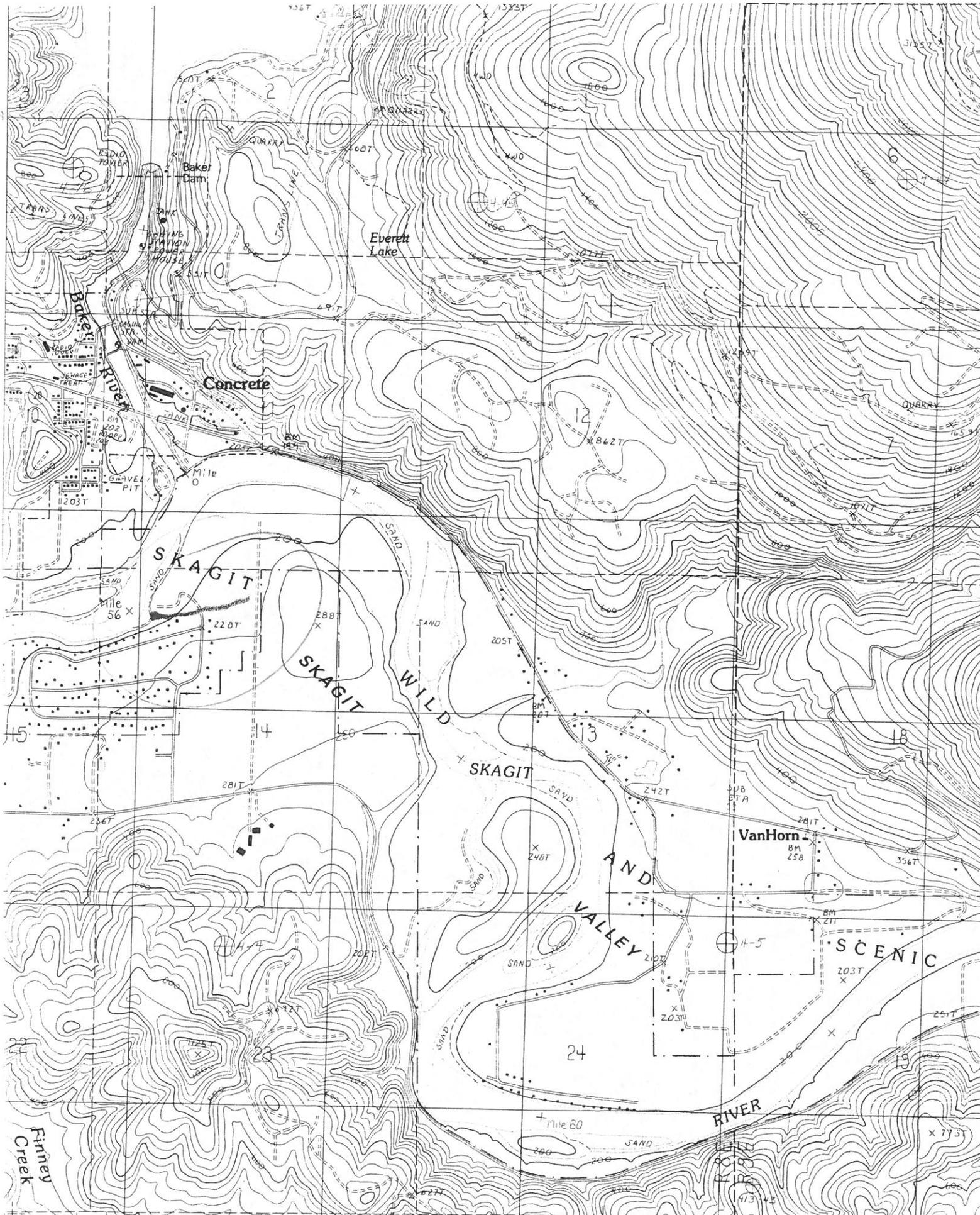


Unaccessible habitat:	Mainstem:	Tribs:	Total:
Spawning habitat conditions:	<input checked="" type="checkbox"/> None <input type="checkbox"/> Poor <input type="checkbox"/> Fair <input type="checkbox"/> Good <input type="checkbox"/> Excellent		
Describe spawning habitat:			
Rearing habitat conditions:	<input type="checkbox"/> None <input type="checkbox"/> Poor <input type="checkbox"/> Fair <input type="checkbox"/> Good <input checked="" type="checkbox"/> Excellent		
Describe pond and other rearing habitat: A large wall-based system that is virtually all ponded by beaver dams			
Describe unaccessible habitat:			
Wetland type:	<input type="checkbox"/> Bog	<input type="checkbox"/> Marsh	<input type="checkbox"/> Scrub-shrub <input type="checkbox"/> Forested
Describe:			
Flooding potential:	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> High
Describe: The area below 465 meters occasionally is backwatered by extreme flooding, the area above this appears to be protected and was not flooded in Nov. '95			
<b>FISH INFORMATION</b>			
Site entry condition:	<input type="checkbox"/> Poor <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Good		
Describe: Enters on a riffle and there is a 2' drop at 6 meters but this area is probably backwatered during the slightest freshet.			
Coho access and use:	Juvenile <input type="checkbox"/> Unknown <input type="checkbox"/> None <input type="checkbox"/> Poor <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Good	Adult <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> None <input type="checkbox"/> Poor <input type="checkbox"/> Fair <input type="checkbox"/> Good	
Describe: Large numbers of pre-smolts were present throughout the system on the day of the survey, a few adult carcasses were also present although no spawning habitat was apparent.			
Other species access and use:	<input type="checkbox"/> Chum <input type="checkbox"/> Pink <input type="checkbox"/> Sockeye <input checked="" type="checkbox"/> Res. Trout <input type="checkbox"/> Anad trout		
Describe: Cutthroat were observed			
<b>ENHANCEMENT OPPORTUNITIES</b>			
Project type: Fencing and willow planting			
Equipment access: Good			
ADDITIONAL COMMENTS: The area above 475 meters would benefit from fencing and reestablishment of riparian habitat. This is an extremely good rearing area that needs to be protected. Educating the locals about protection may be helpful.			
<b>ATTACHMENTS AVAILABLE</b>			
<input checked="" type="checkbox"/> Aerials <input checked="" type="checkbox"/> Sketch <input checked="" type="checkbox"/> Maps <input type="checkbox"/> Spawning Surveys <input checked="" type="checkbox"/> Juvenile Trapping			
<input type="checkbox"/> Other References			

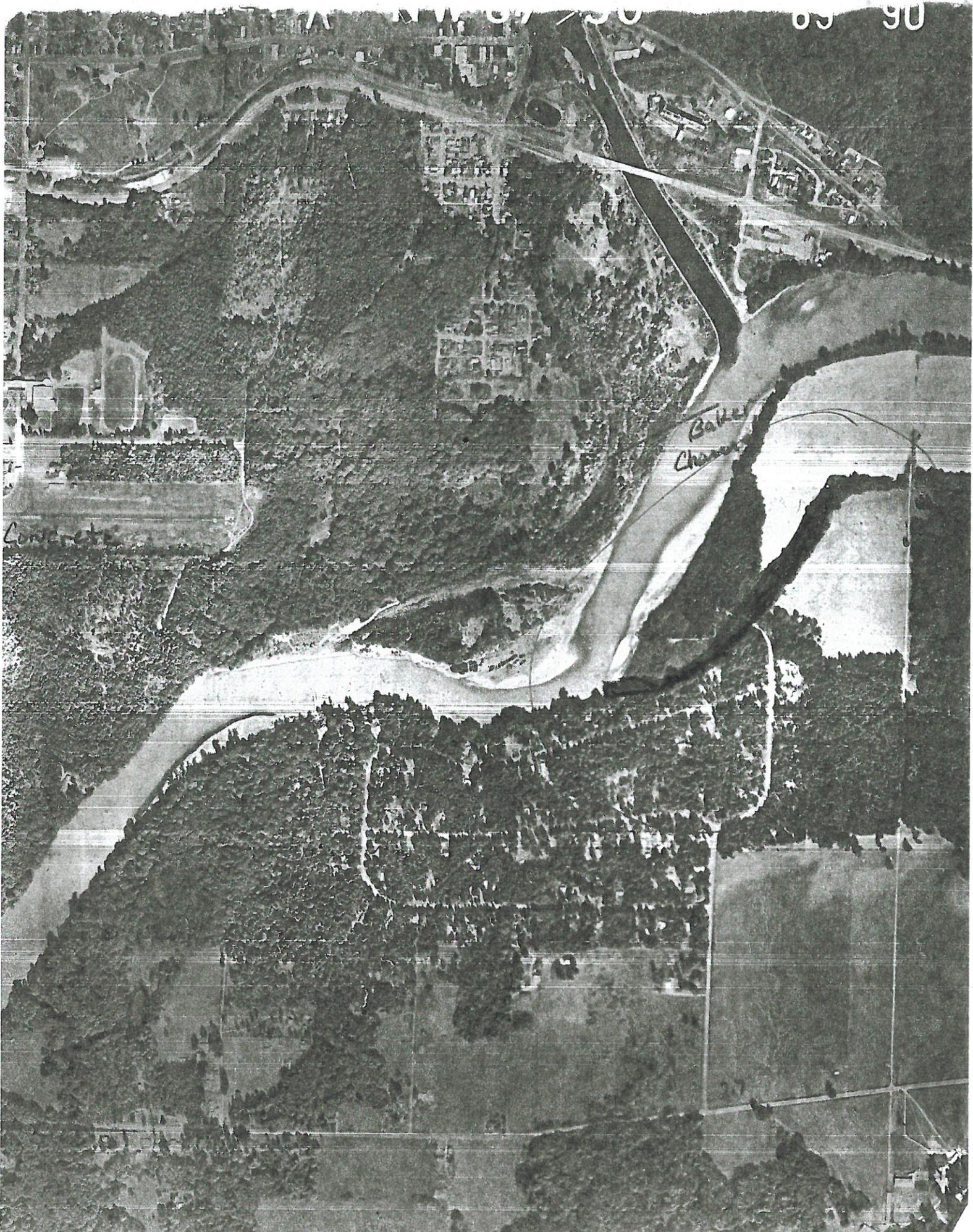
Eight minnow traps were placed above the road that crosses the channel, two above the first beaver dam, six above the second and last beaver dam. Three coho smolts were trapped above the first dam, and four coho, two sticklebacks and two Northwest salamanders were trapped above the last beaver dam.

1. Well No. 10: SK10 LB3  
 2. Well No. 11: Overall springs  
 Scale: 1" = 110m  
 Drawn by: B. Barkdall  
 Section: NW 14, T35N, R2E





1780 000 FEET 594 595 42' 30" 596 597



07/25/89

90

Baker Channel

Concrete

Ovenells

426 ~~Clear Creek~~ spring 512

0-0 1.0 lots

10 1.0 opens up 2' deep

106 20 1st deep, willow, and 8

120 10 Beaver dam, large spring

160 10 2 deep, 15M B/L 1 8

another spring

192 5 m Beaver dam, lots of fish

200 5 m Beaver dam

220 5 m Beaver dam

243 10 m "

282 10 m "

346 20 m culvert

365 3' possible CMP

426 60 m Beaver dam Impossible?

continue on LB side

475 15 m Beaver dam cuttr across

from 426

sk 10 LB3

Rm 56.0

mw 14, T 25 m

RBE

4/28/96 Cedar Grove sp. cont.

765 40m are end large spring  
cows making a mess.

extremely good habitat, flooded  
timber, aquatic veg, stream rabbit  
needs flowing

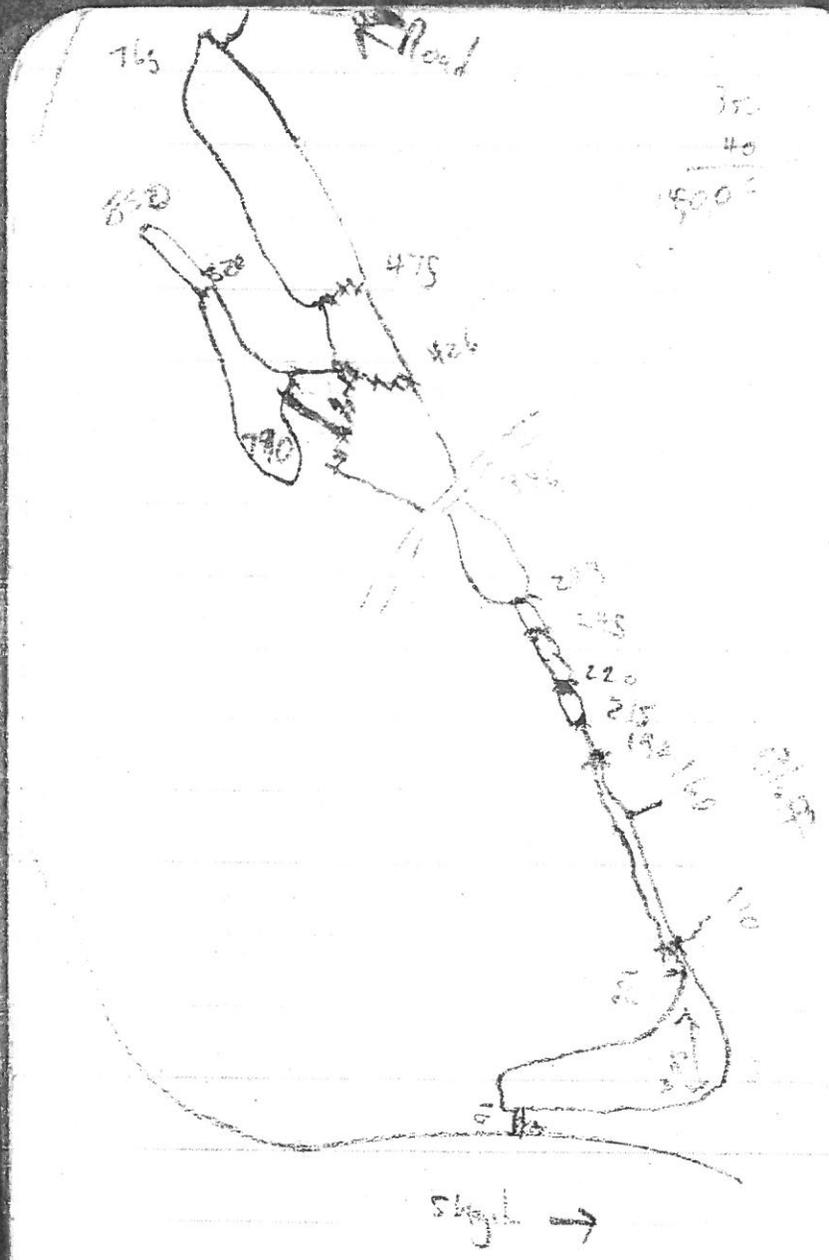
back to AB tub water flowing out this  
way

765 start at Beaver den

790 8m fish present Beaver den

820 10m flooded forest

850 5m fish everywhere



4/22/06 Cedar Grove spring 510

- 0-0 1.0 lots
- 10. 1.0 opens up 2' deep at base
- 106 20 1m deep, willows, mud bottom
- 120 10 Remove dam large stream



SITE IDENTIFIER: SK10LB.1  
LOCAL NAME:OVENELL SLOUGH

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NORTH SOUND OFF CHANNEL SITE INVENTORY DATA

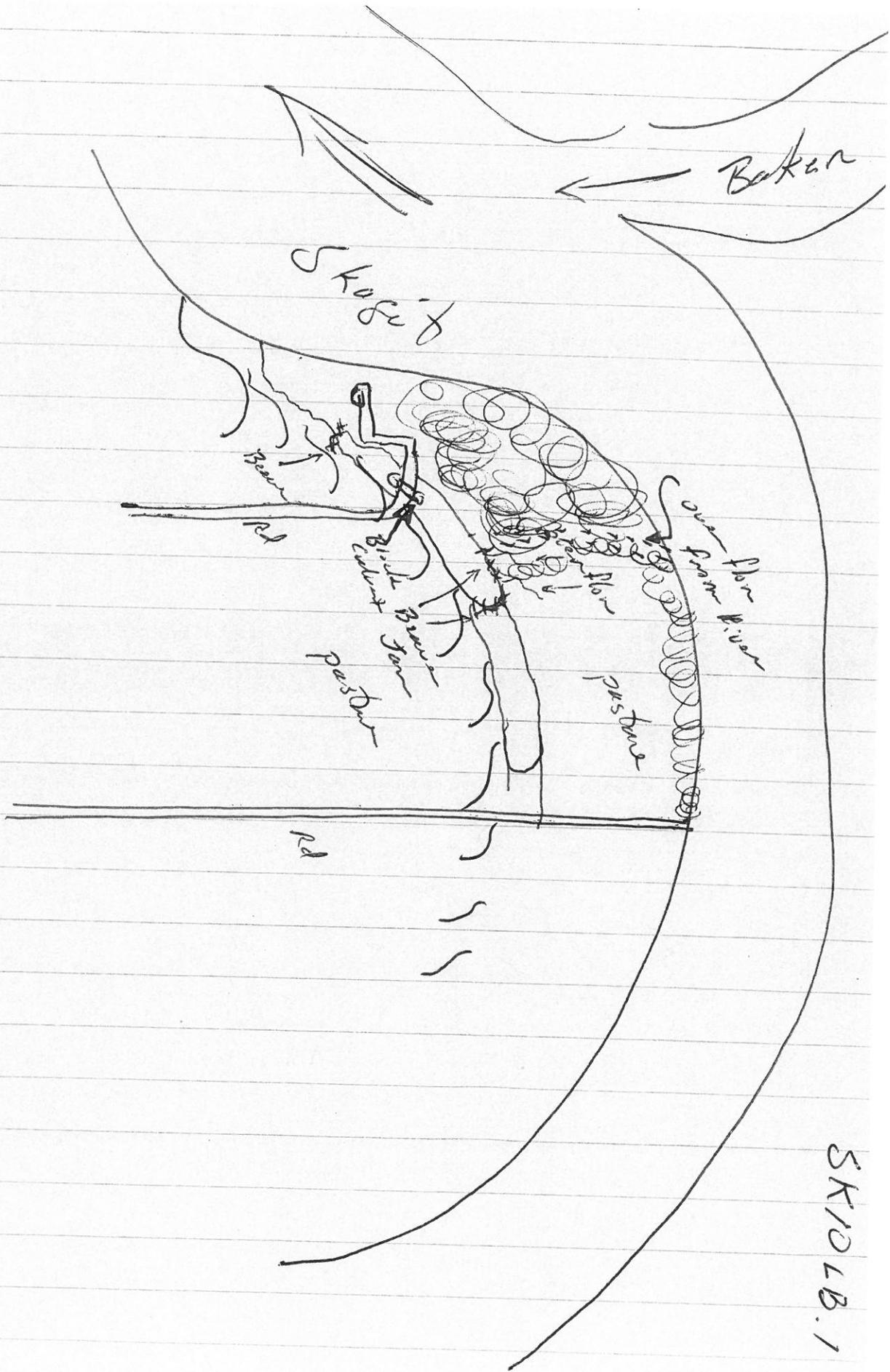
UP-OUTMIGRANT TRAPPING CAPABILITY/OPPORTUNITY/DIFFICULTIES:  
Possible to trap at mouth but a overflow channel from skagit  
enters the slough above the road crossing and may flood the trap.

BEAVER ACTIVITY: Beaver throughout slough.

HEAVY EQUIPMENT ACCESS: Access possible of road down to mouth.  
Heavy debris piles from trees cutting may make work below road  
difficult. Between road and lower end pasture wood may make  
access a problem. Along pasture no problem.

DIRECTIONS TO SITE:Take South Skagit highway above concrete turn  
left at Ovenell Farm sough is at lower pasture.

ENHANCEMENT OPPORTUNITIES AND COMMENT: 1000ft of spawning  
Channel could be developed above flood danger in pasture.  
Possible to inculde more area below pasture but spoils from  
excavation would be needed to form a dike to protect from  
flooding. The culvert under the road is not adiquate and some  
passage will be needed to be constructed. Bever are a problem and  
back watering will be needed to satisfy them. Lower end of  
channel will probably need some improvement to aid in and out  
movement in channel.



SK10LB.1

SK.10LB1

