

State of Alaska
 Department of Fish and Game
 Nomination for Waters
 Important to Anadromous Fish

NOMINATION Form 3

AWC Volume SE SC SW W AR IN USGS Quad KETCHIKAN B-6
 TRIBUTARY TO WARD CREEK UPSTREAM OF WARD LAKE
 Anadromous Water Catalog Number of Waterway 101-47-10150-2039
 Name of Waterway NONE USGS name --- Local name ---
 Addition Deletion Correction Backup Information

For Office Use

Nomination # <u>94 321</u>	Regional Supervisor <u>Ed Larkin</u>	Date <u>12/21/93</u>
Revision Year: <u>'94</u>	Drafted <u>2 Irvine</u>	Date <u>1/5/94</u>
Revision to: Atlas <u>---</u> Catalog <u>---</u>		
Both <input checked="" type="checkbox"/>		
Revision Code: <u>A-2</u>		

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Migration	Anadromous
COHO	5-27-93		X		YES
DOLLY VARDEN	"		X		?

(PRESUMABLY RESIDENT)

IMPORTANT: Provide all supporting documentation that this water body is important for the spawning, rearing or migration of anadromous fish, including: number of fish and life stages observed; sampling methods, sampling duration and area sampled; copies of field notes; etc. Attach a copy of a map showing location of mouth and observed upper extent of each species, as well as any other information such as: specific stream reaches observed as spawning or rearing habitat; locations, types, and heights of any barriers; etc.

Comments: APPROX. STATION 116+00 OF THE PROPOSED WARD LAKE BYPASS ALIGNMENT. ABUNDANT COHO FRY OBSERVED AND TRAPPED THROUGHOUT THIS STREAM FROM ITS CONFLUENCE WITH WARD CREEK (#101-47-10150) TO THE OUTLETS OF THE THREE HIGH GRADIENT CULVERTS (BARRIERS) LOCATED BENEATH THE KPC PIPELINE ROAD. TRAPPING CONDUCTED AT THE BASE OF THESE CULVERTS YIELDED BOTH COHO FRY AND DOLLY VARDEN CHARR (THOUGH SPECIFIC NUMBERS WERE NOT COUNTED*).

* EXAMINED BEFORE ADOPTION OF NEW POLICY ON ANADROMOUS WATERS CATALOG NOMINATIONS.

Name of Observer (please print) KEVIN J. HANLEY, HABITAT BIOLOGIST
 Date: 11-1-93 Signature: Kevin J. Hanley
 Address: ADF&G - HABITAT & RESTORATION DIVISION, KETCHIKAN

ALASKA DEPT. OF FISH & GAME
 NOV 05 1993
 REGION II HABITAT AND RESTORATION DIVISION

This certifies that in my best professional judgement and belief the above information is evidence that this waterbody should be included in or deleted from the Catalog of Waters Important for Spawning, Rearing or Migration of Anadromous Fishes per AS 16.05.870.

Signature of Area Biologist: _____

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

DIVISION OF HABITAT

94-321
WALTER J. HICKEL, GOVERNOR

2030 SEA LEVEL DRIVE
SUITE 205
KETCHIKAN, AK 99901-6067
PHONE: (907) 225-2027

June 10, 1993

Mr. Walter Langlitz
Project Manager
Federal Highway Administration
Western Federal Lands Highway Division
610 East Fifth Street
Vancouver, Washington 98661-3893

Dear Walt:

Re: Results of Detailed Stream Surveys, Alaska FH 39

As a follow-up to our May 3, 1993 field review of the staked alignment for the proposed Ward Lake bypass, I recently completed a detailed examination of six of the seven streams that were identified as having fishery concerns. Baited minnow traps were set in five of these streams to verify the presence or absence of stream rearing anadromous fish. The results of this examination are as follows:

Station 8+00: Numerous coho salmon fry were observed in the lowest reach of this uncataloged stream near its outlet to the Ward Creek estuary. These fish probably originated from either Ward Creek or nearby cataloged anadromous stream #101-47-10145 as trapping conducted in the vicinity of the alignment crossing yielded only resident Dolly Varden char. A series of stair-stepping cascades and a considerable increase in gradient just upstream of the creek's estuarine outlet appears to be an effective barrier to the upstream migration of anadromous fish, both adults and juveniles. In addition, suitable spawning habitat is extremely limited to non-existent within the lower gradient reach where the fry were observed. As discussed during the May 3 field review, the elliptical arch culvert proposed for this crossing location will not require a Fish Habitat permit for its installation though it must be bedded to allow for uninterrupted fish passage.

Station 22+25: This segment of the alignment crosses the upper noncataloged reach of stream #101-47-10145-2005. Although the cataloged portion of this stream has been specified as being important to the migration and spawning of pink salmon, numerous coho salmon fry were observed within its lower reaches near the confluence with stream #101-47-10145 (cataloged for coho salmon spawning and rearing). Two traps were set in the vicinity of the alignment crossing, one upstream and one downstream of the staked centerline. Both traps yielded only resident Dolly Varden char.

NOMINATION FORM 1

As such, no permit will be required for the installation of the proposed baffled culvert. We would, however, request that this work be completed during the period of June 1 through August 7 when adult pink salmon and their incubating eggs are least likely to be present within the cataloged spawning habitat located downstream of the installation site.

Station 38+00: This segment of the alignment crosses the cataloged portion of stream #101-47-10145 which has been specified as providing pink and coho salmon spawning habitat and coho salmon rearing habitat. As the anadromous character of this stream is not in question, no efforts were made to examine it during this survey. As discussed during the May 3 field review, a Fish Habitat permit will be required to construct the proposed bridge over this stream.

Station 73+50 to 76+50: Stream flow was not evident at the time of this survey and the shallowness of the existing pools prevented the placement of baited minnow traps. However, this relatively short reach of stream is so degraded by the large accumulation of discarded refrigerators, other garbage, and small diameter woody slash that suitable habitat for resident fish is virtually non-existent. Given the minimal habitat capability of this degraded reach, a culvert installation would be most appropriate from a cost/benefit standpoint. We would request, however, that this installation be done in such a manner as to prevent perching of the culvert outlet.

Station 83+00: This stream was examined from its outlet to Ward Creek upstream to the staked alignment crossing. A short bedrock chute located near its confluence with Ward Creek appears to be a barrier to coho fry as none were observed or trapped throughout the reaches examined. Two traps were set in the vicinity of the staked alignment crossing; only one yielded 3 resident Dolly Varden char. As discussed during the May 3 field review, the elliptical arch culvert proposed for this crossing must be bedded in such a manner as to provide for the efficient passage of fish at all stream flows.

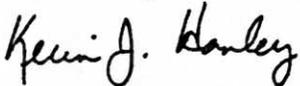
NOMINATION FORM 2 { Station 106+50: Abundant coho fry were both observed and trapped throughout the length of this low gradient stream from its confluence with Ward Creek to the muskeg complexes located a considerable distance upstream of the alignment crossing. As this stream will be added to the catalog of anadromous waters by the time construction begins, a Fish Habitat permit will be required for the installation of the proposed 72" CMP arch culvert.

NOMINATION FORM 3 { Station 116+00: Like the stream at Station 106+50, abundant coho fry were observed throughout this stream from its confluence with Ward Creek to the outlets of the three high gradient culverts located beneath the KPC pipeline road. Trapping conducted at the base of these culverts yielded both coho fry and resident Dolly Varden char. As such, a Fish Habitat permit will be required for this proposed culvert installation as well.

In summary, construction of the Ward Lake bypass will require a total of three Fish Habitat permits for the proposed bridge and culvert installations located at Stations 38+00, 106+50, and 116+00, respectively. We will need to review the design specifications for these structures prior to drafting the permits and would, therefore, appreciate receiving copies of the design drawings when they are finalized, as well as any other pertinent information regarding the nature and scheduling of proposed instream work.

If you or your staff have any questions or would like to discuss this element of the project further, please feel free to contact me at (907) 225-2027.

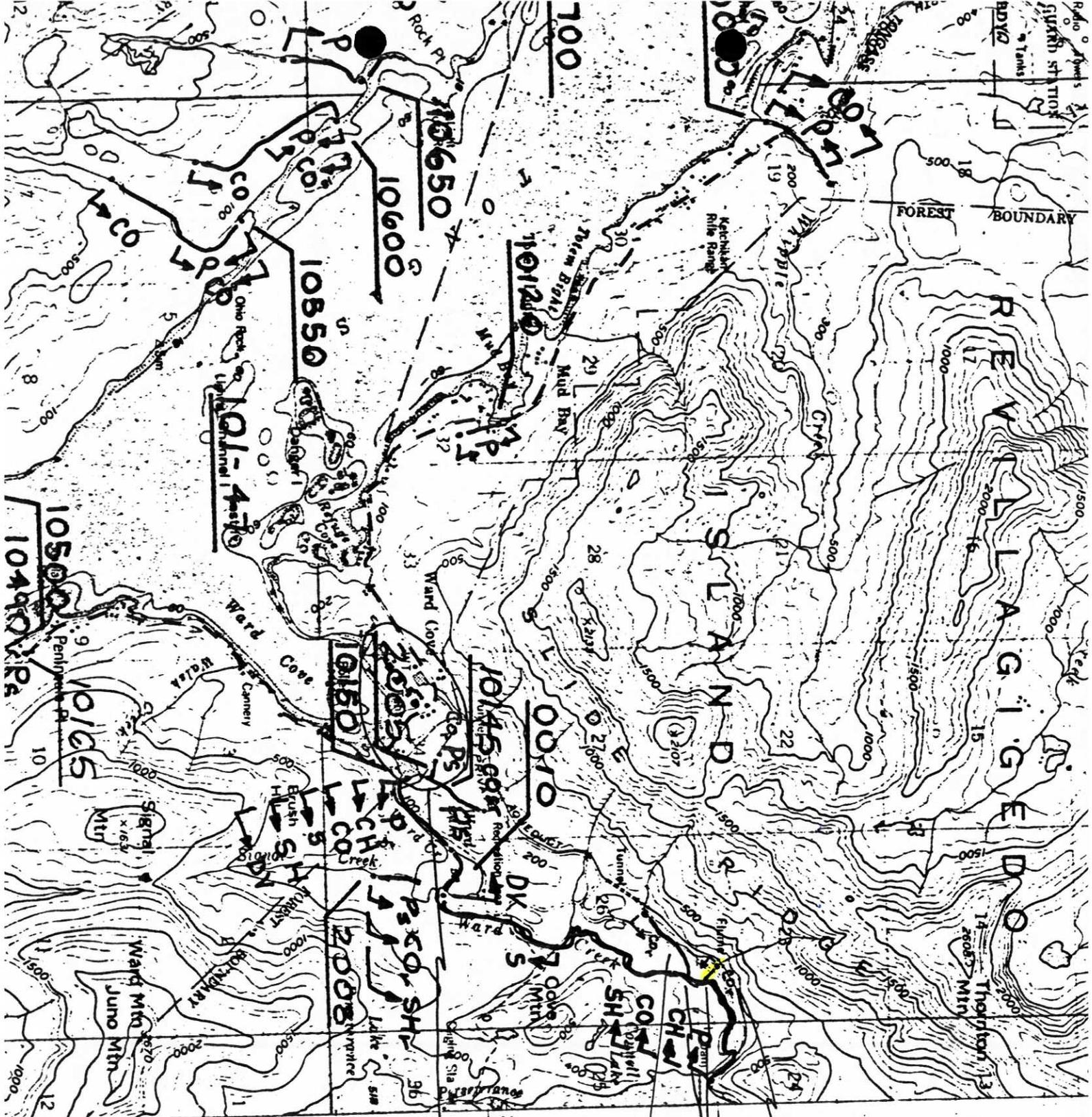
Sincerely,



Kevin J. Hanley
Habitat Biologist

cc: L. Shea, ADF&G, Douglas
J. Gustafson, ADF&G, Ketchikan
S. Viteri, DGC, Juneau

KETCHIKAN B-6
(ENLARGED SCALE)



(NOMINATION FORM 3)
 ADD THESE STREAMS FOR
 COHO RETURNS
 (NOMINATION FORM 2)

ADD COHO RETURNS TO
 STREAM # 101-47-10145-2005
 (NOMINATION FORM 1)

1 715
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