State of Alaska
Department of Fish and Game
Habitat and Restoration Division

Nomination for Waters Important to Anadromous Fish

Region: SOUTHEAST ▼ | USGS Quad: Craig C-4

Anadromous Water Catalog Number of Waterway: 103-60-10500-~~6~~ 2003 ARLH 5859

Name of Waterway: K.R. Creek ☐ USGS Name ☑ Local Name

☑ Addition ☐ Deletion ☐ Correction ☐ Backup Information

1/4/02

For Office Use

Nomination #	01 045		
Revision Year:	2001	Regional Supervisor	1-26-01 Date
Revision to:	Atlas ____ Catalog ____ Both X	AWC Project Biologist	12/19/01 Date
Revision Code:	A-2	Drafted	1/14/02 Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
coho salmon	March 1993		X	X	☑
					☐
					☐
					☐
					☐

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 other information such as: specific stream reaches observed as spawning or rearing habitat; locations, types, and heights of any barriers; etc.

Comments: I examined this tributary to Crab Creek using baited minnow traps to determine the upper extent of anadromous fish habitat under the Forest Resources and Practices Act. Juvenile coho salmon were captured below and above the mainline road up to where the gradient becomes steep within and existing clearcut. Add the tributary to the Catalog and Atlas.

Name of Observer (please print): James D. Durst, Habitat Biologist

Signature: James D Durst Date: 1/19/01

Address: ADF&G H&R, 1300 College Rd,
Fairbanks, AK 99701-1599

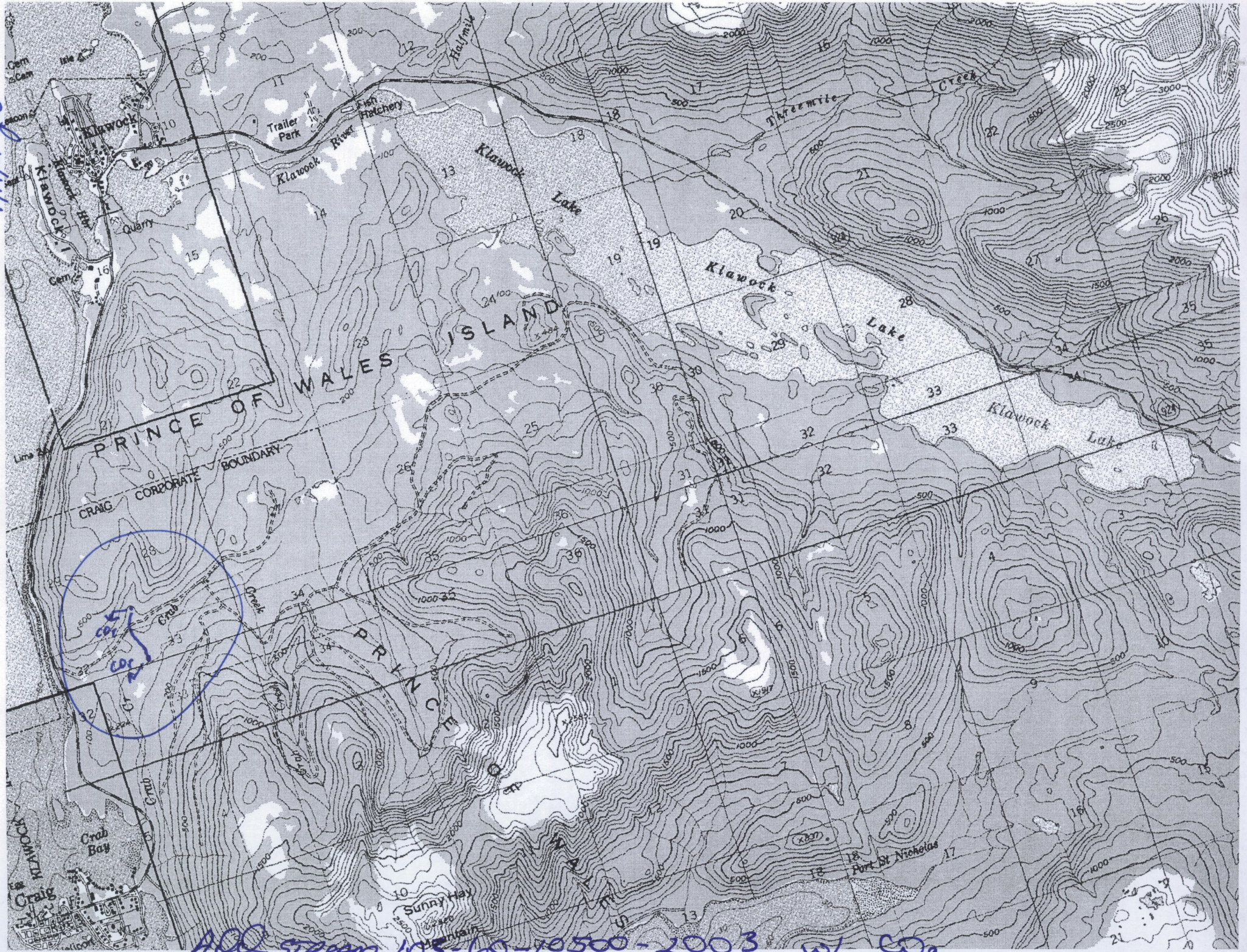
ALASKA DEPT. OF FISH & GAME

This certifies that in my best professional judgment 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.

JAN 30 2001
REGION I
HABITAT AND RESTORATION DIVISION

Signature of Area Biologist: Thomas P. Brook acting for Moira Ingle 1/23/01

Revision 3/97



1/19/01 38

ADD STREAM 105-60-10500-2003 w/ CO_R

1/19/01 JW

- 100 FEET
L DATUM OF 1929
MEAN LOWER LOW WATER
IATE LINE OF MEAN HIGH WATER
PROXIMATELY 8 FEET

EXPERIMENTAL

OUTLINE REPRESENTS LIMITS OF 1:25 000 SCALE MAP

CRAIG (C-4), ALASKA

55133-E1-TF-063

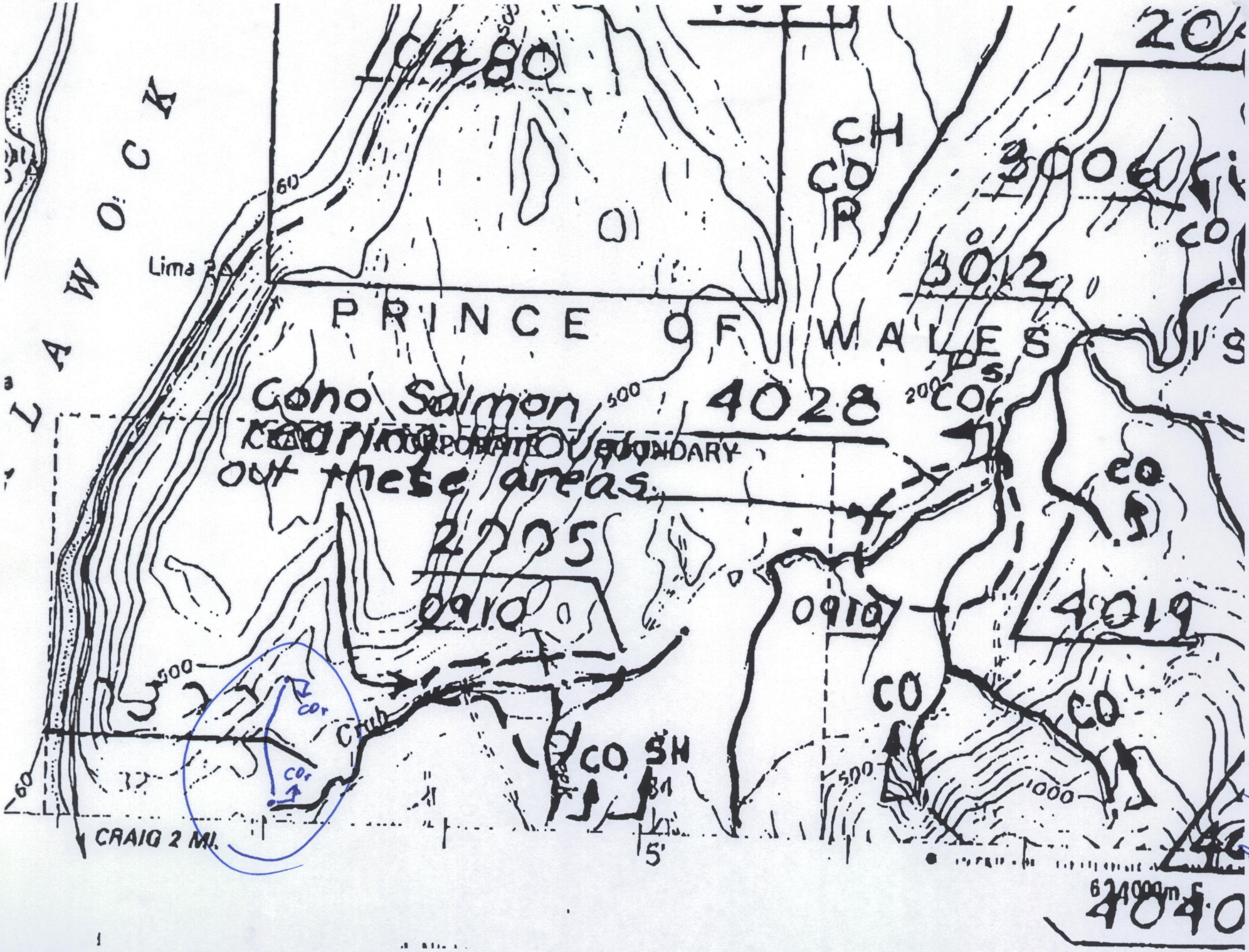
1949

LIMITED REVISION 1986

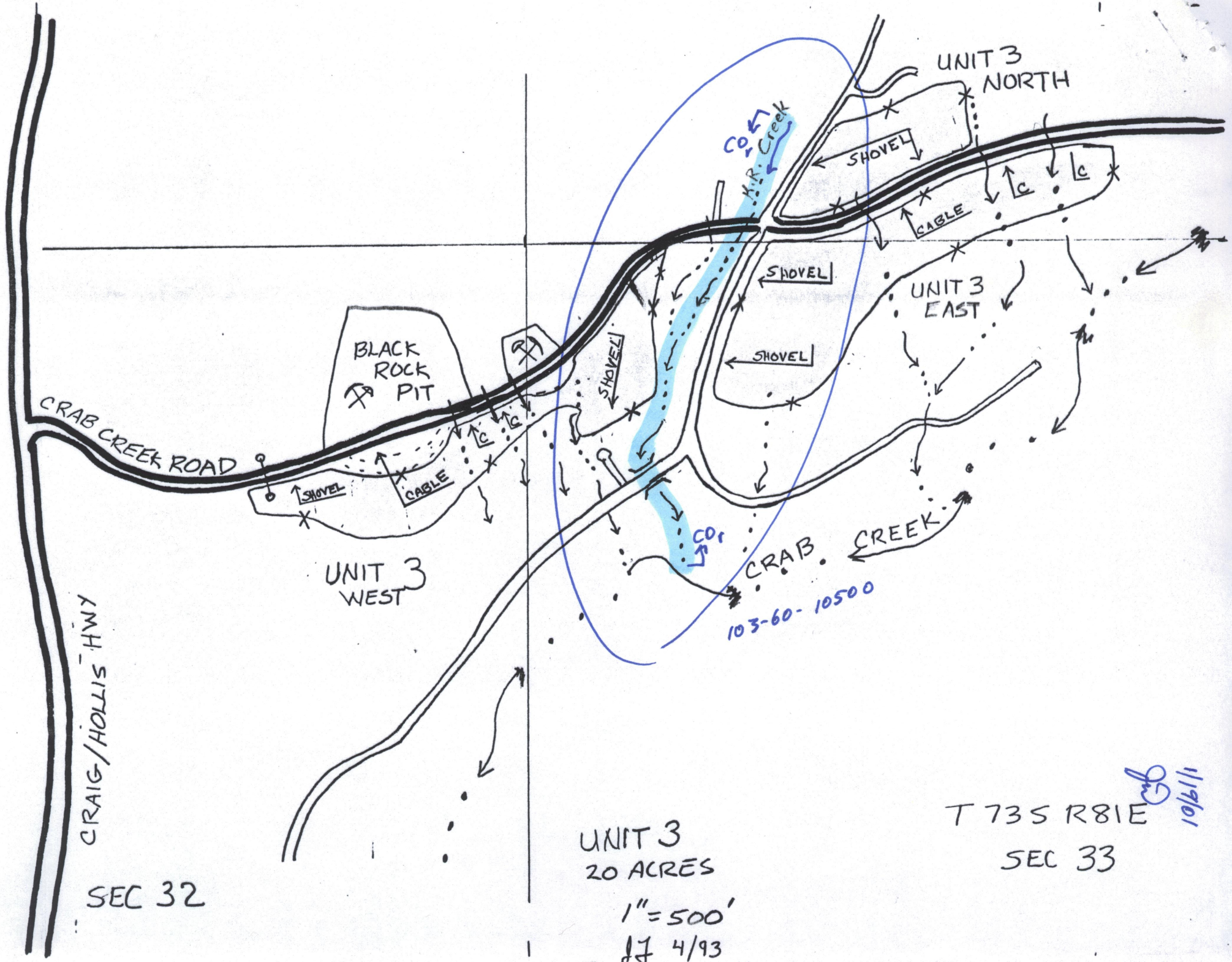
S STREAM CATALOG

BY	DATE
EWW	1/9

ADF&G HAR/CF CRAIG ID:907-826-2562 JAN 18'01 9:50 No.001 P.02



LAWOCK
Lima 2
PRINCE OF WALES IS
Coho Salmon
out these areas
CORPORATE BOUNDARY
0480
CH
CO
R
3006
3012
4028
2005
0910
0910
4019
CO
CO
CO
CO
CO SH
Crab
CRAIG 2 MI.
5'
4040


UNIT 3
NORTH
CO, Creek
K.R.
SHOVEL
CABLE
C
C
C
SHOVEL
SHOVEL
UNIT 3
EAST
BLACK
ROCK
PIT
SHOVEL
CRAB CREEK ROAD
SHOVEL
CABLE
C
C
CO,
CRAB CREEK
103-60-10500
UNIT 3
WEST
CRAIG/HOLLIS HWY
SEC 32
UNIT 3
20 ACRES
1"=500'
JT 4/93
T 73S R81E
SEC 33
10/6/11

Tuesday 2 March 1993 JD

Klawock Heenya Inspection, w/ Al Peterson + Jon Savage

cool & partly cloudy

map + photo work @ KHC

Unit 3:

drove down spur between halves of unit; stream parallels road on W side; looks potential fish habitat; goes around end edge of old clearcut on S side of unit to W; placed * 1 trap * where turns to W @ 0930, + another 1 trap ~30' below road, which has a perched 60" culvert (8"-12"); 2'-6% below culvert, 5% 100' above it; Peterson found dolly fish bones (salmonid size) by bridge below unit; AP says 3 streams through culverts

2 March (cont.)

in road on S side of E half of unit; check for fish

Units 13+14:

drove to end of road on W side units; appears most stream is >8% adjacent to Unit 13, & that Unit 14 is away from cat portion

nice day; ± sunny

Unit 8: nice little stream wandering through unit. 2'-10' wide by road. 2 traps ** 1 each below & above road. walked down NW 1/3 of the unit; small consolidated eggs & mucky ground; beware of water, goal downstream. where stream of traps turns to S, found adult salmon

2 Mar. (cont.)

depth; silty substrate; evidence of recent high water; terrain funky, open, crabapple, alder, a few C; near fork, helicopter logged, heavily in C

walked back out; checked trap in Clarence Cr. ~1645, captured 3 CT; quite active; not good jaw + color, but seemed to have hyoid slashes

Wednesday 3 March 1993 JD

Klaweck Heenya Inspection, w/ Al Peterson, Jon Savage

Unit 3 Traps; one below road had 2 RT, 1 CO; one by clearcut had 3 CO; water 35°F

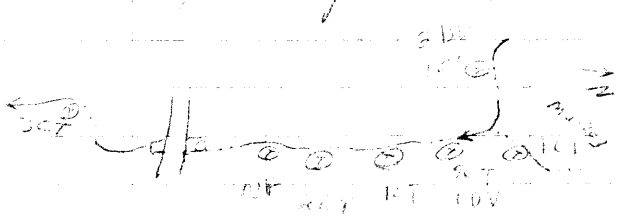
* set 3 traps above road culverts in XC S of E portion of unit; question remains as to anad character of stream above road; close to Unit 1?

Unit 8 Traps; ~~lower~~ pulled beginning 10:50; found CT from below road into both forks by muskeg; DV in upper end as well; flagged upper end anad where old pink was w/ upper end old blue/white; at this

2 Mar. (cont.)

jaw; ~300'-400 ~~below road~~ above confluence w/ larger stream, 5'-(6'), 4-6%; gravel to small rubble, w/ LWD, soft banks (= Type A); walked upstream to road, flagging; old BLW present to upper clearcut edge below road; clay outcrop below road (= "Clay Creek"); typically 6% to road, but no barriers seen; good banks, gravels; 3'-8' at road; followed above road to fork at muskeg; 1 trap in ea fork & 3 more in single channel = 2 traps total in this section.

14:15; cloudy, cooler, windy



2 Mar (cont.)

drove further out mainline, noting stream crossings which are cataloged; E of "Two Bridges" is ~2010 portion of Hatchery Creek; JS says braided mess above road

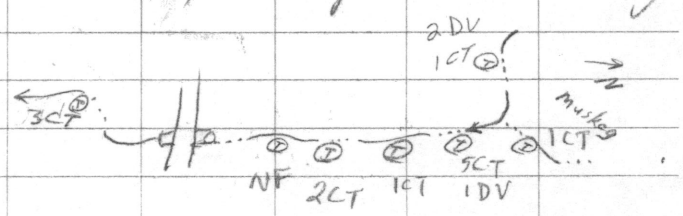
Unit 10:

walked into property line, & showed JS Frog Creek & Clarence Creek at property line; confluence just below property line; placed 1 trap in Clarence ~ line; walked Frog downstream a ways; lotsa beaver activity; on road on S side wall, crossed muskeg to Frog Cr (presumed) again, & started flagging downstream; came to trib from S; flagged up it to ~ fork; JS did not challenge anadromous designation; OK flow &

2 Mar. (cont.)

jaw; ~300'-400 ~~below road~~ above confluence w/ larger stream; 5'-0(5'), 4-6%; gravel to small rubble, w/ LWD, soft banks (= Type A); walked upstream to road, flagging; old Bl/W present to upper clearcut edge below road; clay outcrop below road (= "Clay Creek"); typically 6% to road, w/ no barriers seen; good banks, gravels; 3'-8' at road; followed above road to fork at muskeg; 1 trap in ea fork, & 3 more in single channel = 2 traps total in this stream

✓* 14:15; cloudy, cooler, windy



2 Mar (cont.)

drove farther out mainline, noting stream crossings which are cataloged; E of "Two Bridges" is -2010 portion of Hatchery Creek; JS says braided mess above road

Unit 10:

walked into property line, & showed JS Frog Creek & Clarence Creek at property line; confluence just below property line; placed

✓* 1 trap in Clarence ~ line; walked Frog downstream a ways; lotsa beaver activity; on road on S side unit, crossed muskeg to Frog Cr (presumed) again, & started flagging downstream; came to trib from S; flagged up it to ~ fork; JS did not challenge anadromous designation; OK flow &

3 Mar (cont)

point, stream has qualitative change to larger gravel, moss on rocks, narrowing from about 4'-6' to 2'-4'; gradient still ~ 4% above & below; no barriers were found anywhere

walked up stream on E side

Unit 1: <8% up to where XC comes to stream; 8-10% for a ways further up debris jumps, then 10% or better for visible;

* set 4 traps between road & upper end 6-8%

raining hard; water rising & getting milky

14:50 Unit 3: to 3 traps on 2 sides; W one: 17 CO, 12 sticklebacks, water 35°F; ~~AP & JS~~ flagged into unit; "dissipates in Unit" = "Huey Creek"

orange/white

3 Mar (cont.)

= "Duey Creek"

* middle one N/F; reset trap

E one: 19 CO; 1 Stickleback; water 34°F; (= "Duey Creek"); flagged to unit; puncheon in shovel road in XC made real mess of stream; set

orange/white

* 2 traps up in unit; goes >8% when get into real part of unit

walked unit's line to the E; came to stream w/ orange/white that shovel roads don't cross, logged in '89 or '90, stream >8% up in current unit

(= Black Rock Cr.)

examined stream that parallels (= Rocky) stream that parallels road through Unit 3 halves; lots of loose black gravel for bed; (from road?); squirrely channel for ~ 1/2 way;

3 Mar (cont.)

in lower end, settles down to ~ 4' wide + enters Rock Cr by SE corner of W portion of
* Unit 3; set 1 trap in
* lower section, + 1 trap about mid-unit

Thursday 4 March 1993 JD

STC Tolstoi Bay Variation + Stream Inspection, w/ Al Peterson, Bruce Askron, Wayne Valentic

John Dolan, Yard QC drove w/ Al to KTB, boated to Tolstoi; WV flew in

10:00 Unit 3 Spruce Creek Variation

cut #8 45", S, 28'; sweeps to + away, but probably NSL; atop break from stream; bank erodible, but stream headed away

SAVE #9 33", S, 29'; leans across stream; also atop break, ~10' from #8; bank stability, LWD; nearly H

cut #10 33", S, 49'; NSL; back away from break; nearly S+H

partly sunny, light showers, water up but not really high

WALTER J. HICKEL, GOVERNOR

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF FORESTRY

KETCHIKAN AREA OFFICE
2030 SEA LEVEL DRIVE, SUITE 217
KETCHIKAN, ALASKA 99901
PHONE: (907) 225-3070

March 11, 1993

Mr. Jim Fisher
Klawock Heenya Corporation
Post Office Box 129
Klawock, Alaska 99925

Re: Crab Creek, SE-82-013
Klawock Heenya Heli., SE-90-001

Dear Mr. Fisher:

Enclosed you will find a Forest Practices inspection report dated March 2 and 3, 1993. This report covers Klawock Heenya's operation at Crab Creek and Klawock Heenya's helicopter operations.

Please sign the enclosed report and return the original white copies to me. If you have questions concerning the report or other forest practices issues, call or drop by.

Sincerely,

Al Peterson
Forest Practices Forester

RECEIVED
3/15/93
HABITAT
KLW

cc: L. Kato, KHC, Klawock
J. Savage, KHC, Klawock
B. Hogarty, DEC, Ketchikan
J. Durst, DF&G, Klawock

SE- 82-013
Crab Creek

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FORESTRY

FORESTRY PRACTICES INSPECTION REPORT

SE-90-001
Operation No.
Klawock Heenya Hch
Name
Page 1 of ___

Operator: Klawock Heenya Corp. Date: 3-2-93 and 3-3-93
Location: Crab Creek, Klawock Rd. Type of Insepction: Operational
Travel Time: 4 hr. Priority: High Inspection Time: 15.25 hr.

Individuals Present:

Name	Representing	Name	Representing
Jon Savage	KHC	Jim Durst	DF+G

This report contains recommendations and inspection results pertaining to the following:

___ Reforestation	___ Aesthetics	___ Slash
___ Road Construction & Maintenance	___ Log Transfer & Storage	X Harvesting
___ Wildlife Consideration	___ Cleanup & Stabilization	X Other fish

Inspection Results/Recommendations/Required Actions: Recommended actions are provided in order to prevent violation of the Forest Resources and Practices Act.

- See Attached

This report indicates the conditions found to exist at the time of this inspection for those items checked or noted above. It does not imply that all parts of the operation were inspected nor does it indicate items not inspected are approved.

Signatures:

Operator — Date

A Peterson — 3-11-93
State Forester or Authorized Representative — Date

Copies: Original-State, Copy-Operator
10-1035 (Rev. 5/87)

March 2&3, 1993 Inspection Report

The primary emphasis of this inspection was the examination of notified units for: logging feasibility, water body classifications, and presence of anadromous fish.

UNIT 3

This unit is notified as five acres in size, it appears on the notification map and in the field to be larger then this. Unit lines were not readily discernible during our inspection. Jon Savage informed the State he had not reconned the unit and Jim Fisher had notified it. As Jim Fisher was unable to be at the inspection and Jon was not familiar with the unit the State examined what Jon believed to be the unit. During the States examination it became readily apparent that the unit had not been field verified and ready for inspection. Creeks within Unit 3 were not illustrated on the notification map or described on the notification forms.

Western-half of Unit 3 A 12-16 foot wide creek which has a gravel and cobble substrate and an average gradient between 4-5% is located within the eastern 1/2 of the unit. Coho fry and fish bones were located within or by this creek. The creek is a Type A water body within the unit and was named K.R. Creek. K.R. Creek is crossed by the Crab Creek Road and a 60-inch CMP was used to accommodate water flow. This culvert is perched 9-inches at its outlet end. Traps were set above the Crab Creek Road and coho fry were caught. K.R. Creek is a Type A water body to a point flagged with Blue/White Ribbon on which I wrote, upstream of this point water gradient is greater than 8% on the flagging. This creek is not shown or described within notification materials. A 66-foot buffer will need to be established on this creek.

initials	date	initials	date
		AP	3-11-93

March 2&3, 1993 Inspection Report

Another creek is located within the northern-half of the western-half of Unit 3. This creek originates from a culvert of the Crab Creek Road and is located approximately 150 feet west of the K.R. Creek crossing. The substrate of this creek is primarily composed of black gravel (much like the road surface of the Crab Creek Road). This creek was named Black Gravel Creek and is 5-10 feet wide with a gradient less than 8%. This creek has presence of coho fry and is a Type A water body. This creek is not shown or described within notification materials. Establish a 66-foot buffer along this creek.

Another creek which is located in the western-half of the western-half of Unit 3 was noted by Jim Durst by examination of airphotos on March 5. This creek originates below the small rock pit located east of the rock pit called the Black Rock Pit. This creek is not shown on notification materials. This creek was not trapped, though, has similar characteristics as the other Type A water bodies within the western-half of Unit 3. This creek is currently believed to be a Type A water body up to the point in which it becomes has a gradient greater than 8%.

The northern-half of this unit is steep with gradients ranging from 55-80%. There are two (probably three) anadromous creeks within this unit. Due to these conditions, I informed Jon Savage that the feasibility of shovel logging this unit is very questionable. During field discussions, I requested this portion of Unit 3 be considered for an alternative yarding method.

Eastern-half of Unit 3 There are three creeks which flow from this portion of the unit. These creeks were never described or shown on notification materials. Jon Savage was unsure of where the unit boundaries were for this unit. We believe the unit is bordered on the west by a spur road which is located between the

eastern and western halves of Unit 3, to the south by a clearcut, to the east by a wood corrugated puncheon road and to the north by the Crab Creek Road. If the puncheon road is not the eastern boundary, the possibility of another anadromous water body exists.

Three creeks were located in the clearcut area southeast of the eastern-half of Unit 3. These creeks flow from the eastern-half of Unit 3 and have gradients less than 8%, a substrate composed of silt and small gravels, and are between 3-6 feet wide. All of these creeks have presence of anadromous fish (coho fry) and are named from south to north as Huey, Dewey, and Louie. All of these creeks are Type A water bodies within the eastern-half of Unit 3. Huey was flagged to a point in which the creek flows from land, Dewey was only flagged by the road as Jon Savage stated it did not need to be flagged upstream, and Louie was flagged to a point in which the gradient becomes greater than 8%.

This unit has ground which is highly saturated and close to small Type A water bodies. I recommend helicopter logging this unit or using a system which will provide for full suspension. If a shovel will be used, adequate puncheon is to be placed in front of shovel travel to minimize soil scarification. If crossing of the nonanadromous portions of the creeks is necessary, use adequate puncheon to minimize disturbance of the creeks' banks. Upon completion of harvest activities, remove the puncheon from these surface waters.

UNIT 1

This unit is north of the Crab Creek Road and K.R. Creek is along the eastern side of the unit. The State was informed that Unit 1 did not contain fish creeks. Due to this information and the lack

of other State concerns I informed Jim Fisher that operations could begin within the unit before expiration of the 30-day date. During this Forest Practices Inspection the State determined anadromous fish presence (coho fry) north of the Crab Creek Road. Jon Savage informed the State that he was uncertain where the eastern unit line is. Jon stated some trees along this creek would be requested for harvest. Before a unit is notified as actual it is to be identified in sufficient detail to inform the State of the location of the unit. As this unit contains a Type A water body (K.R. Creek), the necessary buffer is to be established before operations commence within the unit.

UNIT 7

This unit has five separate parts. These parts are next to cataloged waters and are located on flat land. Jon Savage informed us that he had not examined this unit before the inspection and was unaware if anyone had examined the unit before it was notified as actual. There is a high likelihood that anadromous waters are within these separate parts of Unit 7. **Therefore, the State is considering the notification of this unit as conceptual rather than actual. The State will need a new notification of operation for this unit when it is laid out and ready for field review. Within this notification a map of sufficient detail to illustrate the location of all the creeks will be necessary. Upon receipt of this notification the State will have 30 days to examine the unit in the field.**

UNIT 8

The State examined the creek on the north and south side of the spur road which bisects the unit. This creek is approximately 4-10 feet wide having a substrate composed of clay, gravels and

cobble. Dog Salmon jaws were found approximately 300 feet downstream of the spur road crossing. Throughout the unit the creek had a gradient less than 8%. The creek is a Type A water body from its confluence with Hatchery Creek upstream to a point approximately 130 feet downstream of the road crossing. The State flagged the Type A portion of the creek with blue and white "watercourse protection ribbon." This creek was called Clay Creek.

The southeastern portion of the unit was not readily discernible before the inspection. Jon Savage informed the State that the units southeastern boundary would be along Clay Creek.

The operator stated a shovel would be used to log this unit both on the north and south side of the spur road. The south side of the road has rolling topography. To minimize soil scarification, the shovels should use the less steep areas for travel and yarding. The land north of the spur road is highly saturated. I recommend using adequate puncheon in front of shovel travel to minimize rutting and scarification of the soil. I request leaving nonmerchantable timber along the portion of Clay Creek upstream of Type A water. Directionally fall trees away from the nonanadromous portion of Clay Creek. Remove any inadvertently deposited woody debris. Where feasible, keep shovels at least 33 feet from the creek.

UNIT 9

The State viewed this unit from a distance. Jon Savage informed the State that he established a 66-foot buffer along Klawock Lake. Jon also informed the State that the upstream extent of any Type A tributaries would be protected by the 66-foot buffer along Klawock Lake. The lower 1/2 of this unit abuts Hatchery Creek and

is on ground which is flat. Jon Savage informed us that he did not examine this portion of the unit and was unaware of anyone having field inspected the unit before it was notified as actual to the State.

Therefore, the State is considering the notification of this unit as conceptual rather than actual. The State will need a new notification of operation for this unit when it is laid out and ready for field review. Within this notification a map of sufficient detail to illustrate the location of all the creeks will be necessary. Upon receipt of this notification the State will have 30 days to examine the unit in the field.

UNIT 10

The State knows there is at least one Type A water body within this unit. Jon Savage informed the State that he had not examined this unit before the inspection and was not aware if anyone had ever examined the unit before. This unit is considered conceptually notified to the State. The State will need a new notification of operation for this unit when it is laid out and ready for review. Within this notification the operator will need to submit a map of sufficient detail to illustrate all the creeks within this unit. Upon receipt of this notification the State will have 30 days to examine the unit in the field.

UNIT 13

We examined the stream which borders the south side of the unit from a spur road located to the south of the unit. This creek appeared to be over 8% in gradient and is believed not to support anadromous fish. I request retention of nonmerchantable timber

initials	date	initials	date
		AP	3/11/93

along this creek for stream bank stability and maintenance of water quality.

UNIT 14

Jim Durst believed the small creek which flows through this unit doesn't contain anadromous fish. The unit is notified north of the road. If timber harvest occurs south of the spur road, the State will need to be informed. It is possible that anadromous fish exist south of the spur road. I request the retention of small nonmerchantable timber along this creek for stream bank stability.

OVERALL

There is a trend developing in which units are not being field verified before being notified as actual to the State. This is of utmost concern and has resulted in the State changing the status of some notified units from actual to conceptual status. The State accepts units which are notified by the operator as actual provided the unit has been examined in the field and is ready for State inspection. The State did not examine Units HC-11, -12, -15, -16, -17 which were notified as actual. The 30-day review period ends on March 18, 1993. If these units have not been field examined by the operator they are to be notified as conceptual. Some of these units may have fish creeks within them.

initials	date	initials	date
		AP	3/11/93