

WATER PROTECTION
S.O.
ADFG

ADFG FILE COPY

Date: 8-16-82

Camp: THORNE BAY

Unit: TIE ROAD

Stream Catalogue #: 102-70-088

Road: 5500

Quad Map: CRAIG 0-3

T 69S R 8/E Sect

Check Map:

T R Sect

SPECIES PRESENT

Cutthroat

STAGE OF DEVELOPMENT

ADULT 2-6" 1-8"

TYPE OF FISH HABITAT

Salmon Rearing	Excellent	Good	Fair	Sq. Yds. _____
Salmon Spawning	Excellent	Good	Fair	Sq. Yds. _____
Resident Rearing	Excellent	Good	Fair	Sq. Yds. 1800 ft. 2
Resident Spawning	Excellent	Good	Fair	Sq. Yds. _____

Is future fish habitat enhancement possible?
If so Describe:

YES _____ NO

Fish Present Above Road Crossing: _____
Below Road Crossing: _____
Within Unit Boundary: _____
Below Unit Boundary: _____

YES	NO
<input checked="" type="checkbox"/>	_____
<input checked="" type="checkbox"/>	_____
<input checked="" type="checkbox"/>	_____

Fish stream(s) intersection(s) marked with Metal Tags: Road _____ Unit

Fish stream(s) Ftagged: BLUE/WHITE _____ ORANGE/WHITE _____

Fish streams Traversed: YES _____ NO _____

Traverse notes Attached: YES _____ NO _____

Is Additional Parameter Information Necessary? YES _____ NO

If so Describe:

STREAM TEMP.:

Methods used to determine presence of fish:

Stream #	Date	#Fish	Species	Length	Gear	Time
# 1	8-16	3	Cutthroat	6-8"	BP-3	15 minutes

Str #1 flagged o/w for ~ 900' through unit and northerly along eastern boundary.

Pertinent Wildlife Information:

Comments:

Survey Crew Members:

Signature	Date
RICHARD UBERUAGA	8-16-82

Report Reviewed By: Richard Uberuaga Fisheries Biologist 8-17-82
 Signature Title Date

Recommendations:

PROVIDE FISH PASSAGE AT MUSKEG CROSSING LEADING TO LANDING L2, with a minimum cnp dia. of 18". Cnp must be pulled immediately after yarding. All timber falling into fish stream along unit boundary must not be limbed in stream. All residual trees along boundary should be left standing.

24D

FOLLOW PROTECTION prescriptions Recommended for timber harvest and ROAD construction!

1078 ft. in.



ROAD CONSTRUCTION - INDEPENDENT

Water/Soils Quality Protection And Resident
"non-sports" fish spawning and rearing streams
(Orange/White Ribbon)

ROAD # _____

STREAMS # 1

UNIT # TIE ROAD

STATIONS # _____

The following fish stream/stream course protection prescriptions and recommendations apply:

1. Fish passage required during and after road building activities.
2. Culvert installation concurrent with rocking.
3. C.M.P. and/or wooden puncheon culverts required for fish stream crossings. Three log culverts are not authorized.
4. End haul to prevent side cast from entering stream course.
5. Right-of-way clearing adjacent to stream courses shall follow timber harvest recommendations (see timber harvest-secondary streams).
6. Stream course shall not be changed without written approval of Forest Service. Diversion courses for any stream shall be located and staked on the ground by Forest Service prior to construction and/or diversion. (Special provision C6.51; Subsection 1 and 2).
7. Limit number of stream crossings to only 1 equipment crossing at each crossing site.
8. Absolutely no barrow pits in stream course.
9. When road is "put to bed" previous integrity of the stream course in terms of gradient and stream bed must be restored.
10. Water bars are necessary on long inclines.
11. Oil and fuel storage should avoid proximity to any stream.

Additional Comments:

TIMBER HARVEST - INDEPENDENT

UNIT # TIE ROAD

STREAM # # 1

ROAD # _____

STATION # _____

Primary Stream Course Protection (Blue/White Flagging)
Fisheries Habitat and/or Chronically Unstable Stream Courses

The following fish stream protection prescriptions and recommendations apply.
(Special Provisions B 6.5 and C 6.51)

1. Directional falling (to include lining and/or jacking) of timber away from stream course.
2. No limbing of timber inadvertently felled into stream course (to include windthrow). Yard timber in lengths to maximize lift. (This will require a written waiver to permit bucking in the stream course.)
3. Immediate removal of any debris introduced into stream course (to include felled trees which are marked for removal) during timber harvest. Deposit debris in a stable location above high water mark.
4. Windthrow and/or felled trees impacting stream course will be marked for "leave" and "take" timber.
 - a. Timber (to include rootwads) marked with blue ribbon should be removed in a manner to protect the integrity the stream course as much as possible.
 - b. Timber (to include rootwads) marked with yellow ribbon shall be left in place or will require special consideration (waiver) prior to removal.
5. Time timber harvest (to include windthrow) within 200 feet of spawning area of stream courses to avoid adverse impact to salmonid redds and/or pre-emergent fry. (Optimum time for harvest: approximately April 15 to August 15.).