

**Minimization and Mitigation Measures for Timber Operations
in Watersheds with Listed Anadromous Salmonids**

New Language (changes since the 11/30/06 draft are highlighted)

~~Proposed Deletions~~

Amend 14 CCR § 895.1. - Definitions

The definitions contained in the Z'berg-Nejedly Forest Practice Act of 1973 as amended (commencing with Section 4511 of the Public Resources Code) shall apply to this chapter, as well as the following definitions, unless the context clearly requires otherwise.

Confidential Archaeological Letter means

Connected Headwall Swale means a geomorphic feature consisting of a concave depression, with convergent slopes typically of 65 percent or greater, that is connected to a watercourse or lake by way of a continuous linear depression. A linear depression interrupted by a landslide deposit is considered to be continuous.

Countable Tree see 4528(b).

Harvesting Method means

Hydrologic Disconnection means the removal of direct routes of drainage or overland flow of road runoff to a watercourse or lake by directing drainage or overland flow onto stable portions of the forest floor to

1 dissipate energy, facilitate percolation, and resist or prevent erosion or
2 channelization.

3
4 **Inner Gorge** means a geomorphic feature formed by coalescing scars
5 originating from landsliding and erosional processes caused by active ~~stream~~
6 watercourse erosion. The feature is identified as that area beginning
7 immediately adjacent to the ~~stream~~ watercourse channel below the first break
8 in slope.

9
10 **Inside Ditch Hydraulic Capacity** means the ability of an inboard ditch
11 to contain flow from a runoff event without overflowing to the road surface
12 or substantially downcutting the inboard ditch.

13
14 **Intermediate Treatments** means

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16 **Resource Conservation Standards** see PRC § 4525.3.

17
18 **Restorable Habitat** means habitat where the Department of Fish and Game
19 has determined that 1) any life stage of an anadromous salmonid is fully or
20 partially blocked by a temporary barrier from accessing historically occupied
21 habitat or suitable habitat, or 2) current or historic presence data are not
22 available and suitable habitat exists that is not blocked by a naturally
23 existing total barrier. Temporary barriers include, but are not limited to
24 large woody debris pieces or log jams, in-stream landslide or torrent
25 deposits, filled-in channels from historic logging, any stream crossing that
prevents fish passage, agricultural diversions, and most small dams (where

1 fishway construction or removal is feasible). The basis for determining
2 restorable habitat in a planning watershed shall be determined through data
3 that document historical use by anadromous salmonids, the presence of
4 suitable habitat, or habitat that could become suitable through restoration,
5 which is not blocked by a naturally existing total barrier to fish passage.
6 Permanent non-restorable barriers include large dams (where fishway
7 construction is not feasible), and natural barriers such as long term bed-
8 rock falls and large, static, ancient landslides with high-gradient or high-
9 velocity barriers. Planning watersheds upstream from permanent non-restorable
10 barriers shall be defined as non-restorable.

11
12 **Rigging** means

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14 **Rip-Rap** means

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16 **Road Decommissioning** means the temporary or permanent abandonment of a
17 road prism and associated landings resulting in maintenance-free drainage and
18 erosion control. This includes removal or stabilization of drainage
19 structures and fills, as well as unstable road and landing fills, hydrologic
20 disconnection of the road prism, stabilization of exposed excavated areas or
21 material, and application of measures to prevent and control erosion.

22
23 **Road Failure** means

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25 **Road Maintenance** means activities used to maintain and repair roads
involving minor manipulation of the road prism to produce a stable operating

1 surface and to ensure road drainage facilities, structures, cutbanks and
2 fillslopes are kept in a condition to protect the road, minimize erosion, and
3 to prevent sediment discharge into a watercourse or lake. Examples of road
4 maintenance include shaping and/or rocking a road surface; installation and
5 maintenance of rolling and critical dips; restoring functional capacity of
6 inboard ditches, cross drains, or culverts; and repairing water bars.

7
8 Road Prism means all parts of a road including cut banks, ditches, road
9 surfaces, road shoulders, and road fills.

10
11 **Rolling Dip** means

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13 **Scattered Parcel** means

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15 Scour means the process of erosion by flowing water.

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17 **Screening Trees** means

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19 **Seasonal Road** means

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21 Sediment Filter Strip means a structure or vegetation that
22 substantially prevents concentration, transport, and delivery of sediment to
23 a watercourse or lake by reducing velocity and filtering water through
24 features such as gradual slopes treated with vegetation, gentle slopes, woody
25 debris and mulch or settling basins.

1 **Seed Tree** a

3 **Spotted Owl Resource Plan** means

5 ~~**Stable operating surface** means that throughout the period of use, the~~
6 ~~operating surface of a logging road or landing does not either (1) generate~~
7 ~~waterborne sediment in amounts sufficient to cause a turbidity increase in~~
8 ~~downstream Class I, II, III, or IV waters, or in amounts sufficient to cause~~
9 ~~a turbidity increase in drainage facilities that discharge into Class I, II,~~
10 ~~III, or IV waters or, that is visible or would violate applicable water~~
11 ~~quality requirements; or (2) channel water for more than 50 feet that is~~
12 ~~discharged into Class I, II, III, or IV waters.~~

14 **Stable Operating Surface** means a road or landing surface that can
15 support vehicular traffic and that routes water off of the road surface or
16 into drainage facilities without concentrating flow in ruts (tire tracks),
17 pumping of the road bed, or ponding flow in depressions. A stable operating
18 surface shall include a structurally sound road base appropriate for the
19 intended use. The number, placement, and design of drainage facilities or
20 drainage structures on a stable operating surface prevents the transport of
21 fine-grained materials from the road or landing surface into watercourses in
22 quantities deleterious to the beneficial uses of water.

24 **Stand Vigor** is

25 **Watercourse Bank** means

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Watercourse Sideslope means the hillslope immediately adjacent to a watercourse or lake measured from the watercourse or lake transition line to a point 100 feet upslope.

Watercourse Sideslope Class means the steepness of the watercourse sideslope categorized into one of three classes: <30 percent, 30 percent - 50 percent, >50 percent). Where watercourse sideslope configurations are variable, a weighted average of the percent slope shall be used to determine the watercourse sideslope class. The weighted average shall be calculated based on distances of 200 feet or less along the watercourse.

Watersheds with Coho Salmon means any planning watershed(s) where historic or current runs of coho salmon (*Oncorhynchus kisutch*) have been documented.

Watersheds with Listed Anadromous Salmonids ~~threatened or impaired values~~ means any planning watershed where ~~populations of the presence of~~ anadromous salmonids ~~that are~~ listed as threatened, endangered, or candidate under the State or Federal Endangered Species Acts, has been documented or restorable habitat exists ~~with their implementing regulations, are currently present or can be restored.~~

Wet meadows and other wet areas means

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1 ~~The amendments to 14 CCR § 895.1 adopted on March 15, 2000 and April 4,~~
2 ~~2000, which became effective July 1, 2000, shall expire on December 31, 2007.~~

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1 **Amend 14 CCR § 898 - Feasibility Alternatives**

2 *****The Director's evaluation of such impacts and mitigation measures will
3 be done in consultation with the appropriate RWQCB.

4 ~~(a) The amendments to 14 CCR § 898 that became effective July 1, 2000,~~
5 ~~shall expire on December 31, 2007.~~

6
7 **Amend 14 CCR §§ 914.8, 934.8, and 954.8 - Tractor Road Watercourse Crossing**

8 *******(f)** Consistent with the protection of water quality, exceptions may be
9 provided through the Fish and Game Code and shall be indicated in the plan.

10 ~~(g) The amendments to 14 CCR § 914.8 [934.8, 954.8] that became effective~~
11 ~~July 1, 2000, shall expire on December 31, 2007.~~

12
13 **Amend 14 CCR §§ 916, 936, and 956 - Intent of Watercourse and Lake Protection**

14 *******(d)** The measures set forth in this Section are meant to enforce the
15 public's historical and legal interest in protection for wildlife, fish, and
16 water quality and are to be used to guide timberland owners in meeting their
17 legal responsibilities to protect public trust resources.

18 ~~(e) The amendments to 14 CCR § 916 [936, 956] that became effective July~~
19 ~~1, 2000 shall expire on December 31, 2007.~~

20 **Amend 14 CCR §§ 916.2, 936.2, and 956.2 - Protection of the Beneficial Uses**
21 **of Water and Riparian Functions.**

22 *******(c)** When the protective measures contained in 14 CCR 916.5 [936.5,
23 956.5] are not adequate to provide protection to beneficial uses, feasible
24 protective measures shall be developed by the RPF or proposed by the Director
25 under the provisions of 14 CCR 916.6 [936.6, 956.6], Alternative Watercourse
and Lake Protection, and incorporated in the plan when approved by the
Director.

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~~(d) The amendments to 14 CCR § 916.2 [936.2, 956.2] that became effective July 1, 2000 shall expire on December 31, 2007.~~

1 **Amend 14 CCR §§ 916.4, 936.4, and 956.4 - Watercourse and Lake Protection**

2 (c) The protection and WLPZ widths for Class III and Class IV watercourses
3 shall prevent the degradation of the downstream beneficial use of water and
4 shall be determined on a site-specific basis.

5 (1) Where operations occur adjacent to Class III watercourses, the RPF
6 shall designate in the ~~THP~~ plan an equipment limitation zone (ELZ) of at
7 least 25 feet where watercourse sideslope steepness is less than 30% percent
8 and at least 50 feet where watercourse sideslope steepness is 30% percent or
9 greater unless an exception is explained and justified ~~otherwise~~ in the ~~THP~~
10 plan and approved by the ~~d~~Director. Where exceptions are proposed within
11 watersheds with coho salmon, the Director's approval shall be made with
12 written concurrence from DFG.

13 (A) Except within watersheds with coho salmon, Class III
14 watercourses within logging areas where the EHR is Low and the watercourse
15 sideslopes are less than 30% percent shall not require an ELZ unless proposed
16 by the RPF or required by the Director.

17 (B) The RPF shall describe the limitations on the use of heavy
18 equipment in the ~~THP~~ plan.

19 (C) Where appropriate to protect the beneficial uses of water, the
20 RPF shall describe additional protection measures ~~which~~ that may include
21 surface cover retention, vegetation protection and timber falling
22 limitations.

23 (D) The location of the areas of heavy equipment use in any ELZ
24 shall be clearly described in the plan, or flagged or marked on the ground
25 before the preharvest inspection.

1 **(2)** When necessary to protect the beneficial use of water, the RPF
2 shall designate and the Director may require a WLPZ for Class III and Class
3 IV watercourses or an ELZ for Class IV watercourses.

4 ~~**(2)**~~ **(A)** The width of the WLPZ for Class III and Class IV
5 watercourses shall be determined from on-site inspection.

6 **(i)** Minimum protective measures required when Class III and Class
7 IV protection zones are necessary are contained in Table I, 14 CCR § 916.5
8 [936.5, 956.5].

9 **(3)** Soil deposited during timber operations in a Class III watercourse
10 other than at a temporary crossing shall be removed and debris deposited
11 during timber operations shall be removed or stabilized before the conclusion
12 of timber operations, or before October 15.

13 **(A)** Temporary crossings shall be removed before the winter period,
14 or as approved by the Director.

15 **(4)** When approved by the Director on an individual plan basis as
16 provided in Section 14 CCR § 916.4(c)(1) [936.4(c)(1), 956.4(c)(1)], Class IV
17 watercourses shall be exempted from required protection when such protection
18 is inconsistent with the management objectives of the owner of the manmade
19 watercourse or lake.

1 **Amend 14 CCR §§ 916.5(e), 936.5(e), and 956.5(e) - Procedure for Determining**
2 **Watercourse and Lake Protection Zone (WLPZ) Widths and Protective Measures**

3 *****as determined in subsection (b) above.

4 (e) The letter designations shown in the "Protective Measures and Widths"
5 column in Table I correspond to the following:

6 *****

7 "B" WLPZ shall be clearly identified on the ground by an RPF or
8 supervised designee, with paint, flagging, or other suitable means, prior to
9 the start of timber operations. In watersheds with **listed anadromous**
10 **salmonids threatened or impaired values**, on the ground identification of the
11 WLPZ shall be completed prior to the preharvest inspection. For all
12 nonindustrial timber management plans, sample identification of the WLPZ prior
13 to the preharvest inspection may be allowed. The sample shall be based upon a
14 field examination and be consistent with the applicable provisions of 14 CCR
15 §§ 916.4 [936.4, 956.4] and 916.5 [936.5, 956.5], representing the range of
16 conditions found within the WLPZ. The Director shall determine if the sample
17 identification is adequate for plan evaluation during the preharvest
18 inspection. If sample identification is allowed, the remaining WLPZ shall be
19 identified by an RPF or supervised designee prior to the start of timber
20 operations within or adjacent to the WLPZ. The RPF shall notify the
21 Department when the WLPZ has been identified.

22 *****

23 "D" To ensure retention of shade canopy filter strip properties of
24 the WLPZ and the maintenance of a multi-storied stand for protection of values
25 described in 14 CCR § 916.4(b) [936.4(b), 956.4(b)], residual or harvest trees
shall be marked, including a base mark below the cut-line within the WLPZ by

1 the RPF, or supervised designee. Outside of watersheds with listed anadromous
2 salmonids threatened or impaired values, sample marking prior to the
3 preharvest inspection is satisfactory in those cases where the Director
4 determines it is adequate for plan evaluation. When sample marking has been
5 used, all marking shall be done in advance of falling operations in the WLPZ
6 by the RPF, or supervised designee. In watersheds with listed anadromous
7 salmonids threatened or impaired values, trees shall be marked in advance of
8 the preharvest inspection. For all nonindustrial timber management plans,
9 sample marking of the WLPZ prior to the preharvest inspection may be allowed.
10 The sample shall be based upon a field examination and shall be consistent
11 with the applicable provisions of 14 CCR §§ 916.4 [936.4, 956.4] and 916.5
12 [936.5, 956.5], representing the range of conditions found within the WLPZ.
13 The Director shall determine if the sample mark is adequate for plan
14 evaluation during the preharvest inspection. If sample marking is allowed,
15 the remaining WLPZ shall be marked by an RPF, or supervised designee, prior to
16 the start of timber operations within or adjacent to the WLPZ. The RPF shall
17 notify the Department when the WLPZ has been identified.

18 "E" To ensure retention of shade canopy filter strip properties of
19 the WLPZ and the maintenance of a multi-storied stand for protection of values
20 described in 14 CCR § 916.4(b) [936.4(b), 956.4(b)], residual or harvest trees
21 shall be marked, including a base mark below the cut line, within the WLPZ by
22 the RPF or supervised designee. Outside of watersheds with listed anadromous
23 salmonids threatened or impaired values, tree marking shall be done prior to
24 timber falling operations. In watersheds with listed anadromous salmonids
25 threatened or impaired values, trees shall be marked in advance of the
preharvest inspection. For all nonindustrial timber management plans, sample

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1 marking of the WLPZ prior to the preharvest inspection may be allowed. The
2 sample shall be based upon a field examination and shall be consistent with
3 the applicable provisions of 14 CCR §§ 916.4 [936.4, 956.4] and 916.5 [936.5,
4 956.5], representing the range of conditions found within the WLPZ. The
5 Director shall determine if the sample mark is adequate for plan evaluation
6 during the preharvest inspection. If sample marking is allowed, the remaining
7 WLPZ shall be marked by an RPF or supervised designee prior to the start of
8 timber operations within or adjacent to the WLPZ. The RPF shall notify the
9 Department when the WLPZ has been identified.

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1 **Amend 14 CCR §§ 916.9, 936.9, and 956.9 Minimization and Mitigation Measures**
2 **for Protection and Restoration in Watersheds with Listed Anadromous Salmonids**
3 **Threatened or Impaired Values**

4 In addition to all other ~~d~~ District Forest Practice Rules, the following
5 requirements shall apply in any ~~planning~~ watershed with listed anadromous
6 salmonids ~~threatened or impaired values~~:

7 (a) GOAL - Every timber operation shall be planned and conducted to
8 prevent deleterious interference with the watershed conditions that primarily
9 limit the values set forth in 14 CCR § 916.2 [936.2, 956.2](a) (e.g.,
10 sediment load increase where sediment is a primary limiting factor; thermal
11 load increase where water temperature is a primary limiting factor; loss of
12 instream large woody debris or recruitment potential where lack of this value
13 is a primary limiting factor; substantial increase in peak flows or large
14 flood frequency where peak flows or large flood frequency are primary
15 limiting factors). To achieve this goal, every timber operation shall be
16 planned and conducted to meet the following objectives where they affect a
17 primary limiting factor:

18 (1) Comply with the terms of a Total Maximum Daily Load (TMDL) that has
19 been adopted to address factors that may be affected by timber operations if
20 a TMDL has been adopted, or not result in any measurable sediment load
21 increase to a watercourse system or lake.

22 (2) Not result in any measurable decrease in the stability of a
23 watercourse channel or of a watercourse or lake bank.

24 (3) Not result in any measurable blockage of any aquatic migratory
25 routes for anadromous salmonids or listed species.

(4) Not result in any measurable stream flow reductions during critical
low water periods except as part of an approved water drafting plan pursuant
to 14 CCR § 916.9(r) [936.9(r), 956.9(r)].

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1 (5) Consistent with the requirements of 14 CCR § 916.9(i), 14 CCR §
2 936.9(i), or 14 CCR § 956.9(i); protect, maintain, and restore trees
3 (especially conifers), snags, or downed large woody debris that currently, or
4 may in the foreseeable future, provide large woody debris recruitment needed
5 for instream habitat structure and fluvial geomorphic functions.

6 (6) Consistent with the requirements of 14 CCR § 916.9(g), 14 CCR §
7 936.9(g), or 14 CCR § 956.9(g); protect, maintain, and restore the quality
8 and quantity of vegetative canopy needed to: (A) provide shade to the
9 watercourse or lake, (B) minimize daily and seasonal temperature
10 fluctuations, (C) maintain daily and seasonal water temperatures within the
11 preferred range for anadromous salmonids or listed species where they are
12 present or restorable habitat exists ~~could be restored~~, and (D) provide
13 hiding cover and a food base where needed.

14 (7) Result in no substantial increases in peak flows or large flood
15 frequency.

16 (b) Pre-plan adverse cumulative watershed effects on the populations and
17 habitat of anadromous salmonids shall be considered. The plan shall
18 specifically acknowledge or refute that such effects exist. Where
19 appropriate, the plan shall set forth measures to effectively reduce such
20 effects.

21 ~~(c) Any timber operation or silvicultural prescription within 150 feet of
22 any Class I watercourse or lake transition line or 100 feet of any Class II
23 watercourse or lake transition line shall have protection, maintenance, or
24 restoration of the beneficial uses of water or the populations and habitat of
25 anadromous salmonids or listed aquatic or riparian associated species as
26 significant objectives.~~

27 ~~Additionally, for evenaged regeneration methods and rehabilitation with
28 the same effects as a clearcut that are adjacent to a WLPZ, a special
29 operating zone shall retain understory and mid-canopy conifers and hardwoods.
30 These trees shall be protected during falling, yarding and site preparation
31 to the extent feasible. If trees that are retained within this zone are~~

1 ~~knocked down during operations, that portion of the trees that is greater~~
2 ~~than 6" in diameter shall remain within the zone as Large Woody Debris. The~~
3 ~~zone shall be 25 feet above Class I WLPZs with slopes 0-30% and 50 feet above~~
4 ~~Class I WLPZs with slopes > 30%.~~

5 ~~(d)~~(c) (1) The plan shall fully describe:

6 (A) the type and location of each measure needed to fully offset
7 sediment loading, thermal loading, and potential significant adverse
watershed effects from the proposed timber operations, and

8 (B) the person(s) responsible for the implementation of each
measure, if other than the timber operator.

9 (2) In proposing, reviewing, and approving such measures, preference
shall be given to the following:

10 (A) measures that are both onsite (i.e., on or near the plan area)
and in-kind (i.e., erosion control measures where sediment is the problem),
and

11 (B) sites that are located to maximize the benefits to the impacted
12 portion of a watercourse or lake. Out-of-kind measures (i.e., improving
shade where sediment is the problem) shall not be approved as meeting the
requirements of this subsection.

13
14 ~~(e)~~(d) **Channel zone requirements**

15 (1) There shall be no timber operations within the channel zone with
the following exceptions:

16 (A) timber harvesting that is directed to improve salmonid habitat
through the limited use of the selection or commercial thinning silvicultural
17 methods with review and comment by DFG.

18 (B) timber harvesting necessary for the construction or
reconstruction of approved watercourse crossings.

19 (C) timber harvesting necessary for the protection of public health
and safety.

20 (D) to allow for full suspension cable yarding when necessary to
transport logs through the channel zone.

21 **(E) Class III watercourses where exclusion of timber operations is**
22 **not needed for protection of listed salmonids.**

23 (2) In all instances where trees are proposed to be felled within the
channel zone, a base mark shall be placed below the cut line of the harvest
24 trees within the zone. Such marking shall be completed by the RPF that
prepared the plan prior to the preharvest inspection.

1 (e) Class I Watercourse and Lake Protection Measures - The following shall
2 apply to all Class I watercourses and lakes within watersheds with listed
3 anadromous salmonids.

4 (1) Any timber operation or silvicultural prescription within 150 feet
5 of any Class I watercourse or lake transition line shall have protection,
6 maintenance, or restoration of the beneficial uses of water or the
7 populations and habitat of anadromous salmonids or listed aquatic or
8 riparian-associated species as significant objectives.

9 ~~(f)~~ (2) The minimum WLPZ width for Class I watercourses and lakes shall
10 be 150 feet from the watercourse or lake transition line.

11 (A) Where a proposed plan ~~THP~~ is located within the Sacramento or
12 San Joaquin river drainages, and the Director and DFG concur; the RPF may
13 explain and justify other WLPZ widths on areas where evenaged regeneration
14 methods, seed tree removal, shelterwood removal, alternative prescriptions,
15 or rehabilitation ~~will~~ shall not be utilized adjacent to watercourse and lake
16 protection zones and where watercourse sideslopes are less than 30% percent.

17 (3) For Class I watercourses and lakes, any plan involving timber
18 operations within the WLPZ shall contain clear and enforceable specifications
19 of how any disturbance or log or tree cutting and removal within the Class I
20 WLPZ shall be carried out to conform with 14 CCR §§ 916.2 [936.2, 956.2](a)
21 and 916.9 [936.9, 956.9](a).

22 ~~(g)~~ (4) Within a WLPZ for Class I watercourses and lakes, at least 85
23 percent overstory canopy shall be retained within 75 feet of the watercourse
24 or lake transition line, and at least 65 percent overstory canopy within the
25 remainder of the WLPZ. The overstory canopy must be composed of at least 25%
percent overstory conifer canopy post-harvest.

1 **(A)** Where a proposed plan THP is located within the Sacramento or
2 San Joaquin river drainages, and the Director and DFG concur; the RPF may
3 explain and justify other canopy retention standards on areas where even aged
4 regeneration methods, seed tree removal, shelterwood removal, alternative
5 prescriptions, or rehabilitation ~~will~~ shall not be utilized adjacent to
6 watercourse and lake protection zones and where watercourse sideslopes are
7 less than 30% percent.

8 **(5)** Within a WLPZ for Class I watercourses and lakes, hHarvesting of
9 hardwoods shall only occur for the purpose of enabling conifer regeneration.

10 ~~**(h)** For Class I waters, any plan involving timber operations within the
11 WLPZ shall contain the following information:~~

12 ~~**(1)** A clear and enforceable specification of how any disturbance or log
13 or tree cutting and removal within the Class I WLPZ shall be carried out to
14 conform with 14 CCR 916.2 [936.2, 956.2](a) and 916.9 [936.9, 956.9](a).~~

15 ~~**(2)** A description of all existing permanent crossings of Class I waters
16 by logging roads and clear specification regarding how these crossings are to
17 be modified, used, and treated to minimize risks, giving special attention to
18 allowing fish to pass both upstream and downstream during all life stages.~~

19 ~~**(3)** Clear and enforceable specifications for construction and operation
20 of any new crossing of Class I waters to prevent direct harm, habitat
21 degradation, water velocity increase, hindrance of fish passage, or other
22 potential impairment of beneficial uses of water.~~

23 ~~**(i)**~~**(6)** Except within watersheds with coho salmon, Rrecruitment of large
24 woody debris for aquatic habitat in Class I anadromous fish-bearing
25 watercourses or other restorable habitat waters shall be ensured by retaining
the ten (10) largest dbh conifers (live or dead) per 330 feet of stream

1 channel length that are the most conducive to recruitment to provide for the
2 beneficial functions of riparian zones. The retained conifers shall be
3 selected from within the ~~THP~~ plan area that lies within 50 feet of the
4 watercourse transition line. Where the ~~THP~~ plan boundary is an ownership
5 boundary, a class I watercourse, and the WLPZ on both sides of the
6 watercourse currently meets the stocking standards listed under 14 CCR §
7 912.7[932.7,952.7](b)(2)}; the five (5) largest dbh conifers (live or dead)
8 per 330 feet of stream channel length that are the most conducive to
9 recruitment to provide for the beneficial functions of riparian zones within
10 the ~~THP~~ plan area shall be retained within 50 feet of the watercourse
11 transition line.

12 The RPF may propose alternatives to substitute smaller diameter trees,
13 trees that are more than 50 feet from the watercourse transition line, or
14 other alternatives on a site specific basis. The RPF must explain and
15 justify in the ~~THP~~ plan why the proposed alternative is more conducive to
16 current and long-term Large Woody Debris recruitment, shading, bank
17 stability, and the beneficial functions of riparian zones.

18 ~~(j)(7)~~ Where an inner gorge extends beyond a Class I WLPZ and slopes
19 are greater than 55% percent, a special management zone shall be established
20 where the use of evenaged regeneration methods is prohibited. This zone
21 shall extend upslope to the first major break-in-slope to less than 55%
22 percent for a distance of 100 feet or more, or 300 feet as measured from the
23 watercourse or lake transition line, which ever is less. All operations on
24 slopes exceeding 65% percent within an inner gorge of a Class I or II
25 watercourse shall be reviewed by a Professional ~~Registered~~ Geologist prior to

1 plan approval, regardless of whether they are proposed within a WLPZ or
2 outside of a WLPZ and disclosed and incorporated in the plan as appropriate.

3 (8) For evenaged regeneration methods and rehabilitation with the same
4 effects as a clearcut that are adjacent to a Class I WLPZ, a special
5 operating zone shall retain understory and mid-canopy conifers and hardwoods.
6 These trees shall be protected during falling, yarding and site preparation
7 to the extent feasible. If trees that are retained within this zone are
8 knocked down during operations, that portion of the trees that is greater
9 than 6" in diameter shall remain within the zone as Large Woody Debris. The
10 zone shall be 25 feet above Class I WLPZs with watercourse sideslopes 0-30
11 percent and 50 feet above Class I WLPZs with watercourse sideslopes > 30
12 percent.

13 (f) Class II Watercourse and Lake Protection Measures - The following
14 shall apply to all Class II watercourses and lakes within watersheds with
15 listed anadromous salmonids.

16 (1) Any timber operation or silvicultural prescription within 100 feet
17 of any Class II watercourse or lake transition line shall have protection,
18 maintenance, or restoration of the beneficial uses of water or the
19 populations and habitat of anadromous salmonids or listed aquatic or
20 riparian-associated species as significant objectives.

21 ~~(k)(g)~~ From October 15 to May 1, ~~the following shall apply: (1)~~ no timber
22 operations shall take place unless the approved plan incorporates a complete
23 winter period operating plan pursuant to 14 CCR § 914.7(a) [934.7(a),
24 954.7(a)], ~~(2) unless the winter period operating plan proposes operations~~
25 ~~during an extended period with low antecedent soil wetness, no tractor roads~~
~~shall be constructed, reconstructed, or used on slopes that are over 40~~

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1 ~~percent and within 200 feet of a Class I, II, or III watercourse, as measured~~
2 ~~from the watercourse or lake transition line, and (3) operation of trucks and~~
3 ~~heavy equipment on roads and landings shall be limited to those with a stable~~
4 ~~operating surface.~~

5 ~~(1) Construction or reconstruction of logging roads, tractor roads, or~~
6 ~~landings shall not take place during the winter period unless the approved~~
7 ~~plan incorporates a complete winter period operating plan pursuant to 14 CCR~~
8 ~~914.7(a) [934.7(a), 954.7(a)] that specifically address such road~~
9 ~~construction. Use of logging roads, tractor roads, or landings shall not take~~
10 ~~place at any location where saturated soil conditions exist, where a stable~~
11 ~~logging road or landing operating surface does not exist, or when visibly~~
12 ~~turbid water from the road, landing, or skid trail surface or inside ditch~~
13 ~~may reach a watercourse or lake. Grading to obtain a drier running surface~~
14 ~~more than one time before reincorporation of any resulting berms back into~~
15 ~~the road surface is prohibited.~~

16 ~~(m) All tractor roads shall have drainage and/or drainage collection and~~
17 ~~storage facilities installed as soon as practical following yarding and prior~~
18 ~~to either (1) the start of any rain which causes overland flow across or~~
19 ~~along the disturbed surface within a WLPZ or within any ELZ or EEZ designated~~
20 ~~for watercourse or lake protection, or (2) any day with a National Weather~~
21 ~~Service forecast of a chance of rain of 30 percent or more, a flash flood~~
22 ~~warning, or a flash flood watch.~~

23 ~~(n)(h)~~ Within the WLPZ, and within any ELZ or EEZ designated for
24 watercourse or lake protection, treatments to stabilize soils, minimize soil
25 erosion, and prevent the discharge of sediment into waters in amounts
deleterious to aquatic species or the quality and beneficial uses of water,

1 or that threaten to violate applicable water quality requirements, shall be
2 applied in accordance with the following standards:

3 (1) The following requirements shall apply to all such treatments.

4 (A) They shall be described in the plan.

5 (B) For areas disturbed from May 1 through October 15, treatment
6 shall be completed prior to the start of any rain that causes overland flow
7 across or along the disturbed surface.

8 (C) For areas disturbed from October 16 through April 30, treatment
9 shall be completed prior to any day for which a chance of rain of 30 percent
10 or greater is forecast by the National Weather Service or within 10 days,
11 whichever is earlier.

12 (2) The traveled surface of logging roads shall be treated to prevent
13 waterborne transport of sediment and concentration of runoff that results
14 from timber operations.

15 (3) The treatment for other disturbed areas, including:

16 (A) areas exceeding 100 contiguous square feet where timber
17 operations have exposed bare soil,

18 (B) approaches to tractor road watercourse crossings between the
19 drainage facilities closest to the crossing,

20 (C) road cut banks and fills, and

21 (D) any other area of disturbed soil that threatens to discharge
22 sediment into waters in amounts deleterious to the quality and beneficial
23 uses of water;

24 may include, but need not be limited to, mulching, rip-rapping, grass
25 seeding, or chemical soil stabilizers. Where straw, mulch, or slash is used,
the minimum coverage shall be 90% percent, and any treated area that has been
subject to reuse or has less than 90% percent surface cover shall be treated
again prior to the end of timber operations. The RPF may propose alternative
treatments that will achieve the same level of erosion control and sediment
discharge prevention.

(4) Where the undisturbed natural ground cover cannot effectively
protect beneficial uses of water from timber operations, the ground shall be
treated by measures including, but not limited to, seeding, mulching, or
replanting, in order to retain and improve its natural ability to filter
sediment, minimize soil erosion, and stabilize banks of watercourses and
lakes.

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1 ~~(e)~~(i) As part of the plan, the RPF shall identify active erosion sites in
2 the logging area, assess them to determine which sites pose significant risks
3 to the beneficial uses of water, assess them to determine whether feasible
4 remedies exist, and address in the plan feasible remediation for all sites
5 that pose significant risk to the beneficial uses of water.

6 ~~(p)~~ The erosion control maintenance period on permanent and seasonal roads
7 and associated landings that are not abandoned in accordance with 14 CCR
8 923.8 [943.8 , 963.8] shall be three years.

9 ~~(q)~~(j) Site preparation activities shall be designed to prevent soil
10 disturbance within, and minimize soil movement into, the channels of
11 watercourses. Prior to any broadcast burning, burning prescriptions shall be
12 designed to prevent loss of large woody debris in watercourses, and
13 vegetation and duff within a WLPZ, or within any ELZ or EEZ designated for
14 watercourse or lake protection. No ignition is to occur within any WLPZ, or
15 within any ELZ or EEZ designated for watercourse or lake protection. When
16 burning prescriptions are proposed, the measures or burning restrictions
17 which are intended to accomplish this goal shall be stated in the plan and
18 included in any required burning permit. This information shall be provided
19 in addition to the information required under 14 CCR § 915.4 [935.4, 955.4].

20 ~~(r)~~ Water drafting for timber operations from within a channel zone of a
21 natural watercourse or from a lake shall conform with the following
22 standards:

23 ~~(1)~~ The RPF shall incorporate into the THP:

24 ~~(A)~~ a description and map of proposed water drafting locations,

25 ~~(B)~~ the watercourse or lake classification, and

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1 ~~(C) the general drafting location use parameters (i.e., yearly~~
2 ~~timing, estimated total volume needed, estimated total uptake rate and~~
3 ~~filling time, and associated water drafting activities from other THPs).~~

4 ~~(2) On Class I and Class II streams where the RPF has estimated that:~~

5 ~~(A) bypass flows are less than 2 cubic feet per second, or~~

6 ~~(B) pool volume at the water drafting site would be reduced by 10%,~~

7 ~~or~~

8 ~~(C) diversion rate exceeds 350 gallons per minute, or~~

9 ~~(D) diversion rate exceeds 10% of the above surface flow;~~

10 ~~no water drafting shall occur unless the RPF prepares a water drafting plan~~
11 ~~to be reviewed and, if necessary a stream bed alteration agreement issued, by~~
12 ~~DFC and approved by the Director. The Director may accept the project~~
13 ~~description and conditions portion of an approved "Streambed Alteration~~
14 ~~Agreement" issued under the Fish and Game Code (F&GC 1600 et seq.) which is~~
15 ~~submitted instead of the water drafting plan described in 14 CCR § 916.9~~
16 ~~[936.9, 956.9] (r)(2)(D)(1-5).~~

17 The water drafting plan shall include, but not be limited to:

18 1. ~~disclosure of estimated percent streamflow reduction and~~
19 ~~duration of reduction,~~

20 2. ~~discussion of the effects of single pumping operations, or~~
21 ~~multiple pumping operations at the same location,~~

22 3. ~~proposed alternatives and discussion to prevent adverse~~
23 ~~effects (e.g. reduction in hose diameter, reduction in total intake at one~~
24 ~~location, described allowances for recharge time, and alternative water~~
25 ~~drafting locations),~~

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1 ~~4. conditions for operators to include an operations log kept on~~
2 ~~the water truck containing the following information: Date, Time, Pump Rate,~~
3 ~~Filling Time, Screen Cleaned, Screen Conditions, and Bypass flow~~
4 ~~observations,~~

5 ~~5. a statement by the RPF for a pre operations field review with~~
6 ~~the operator to discuss the conditions in the water drafting plan.~~

7 ~~(3) Intakes shall be screened in Class I and Class II waters. Screens~~
8 ~~shall be designed to prevent the entrainment or impingement of all life~~
9 ~~stages of fish or amphibians. Screen specifications shall be included in the~~
10 ~~plan.~~

11 ~~(4) Approaches to drafting locations within a WLPZ shall be surfaced~~
12 ~~with rock or other suitable material to avoid generation of sediment.~~

13 ~~(s)(k)~~ No timber operations are allowed in a WLPZ, or within any ELZ or
14 EEZ designated for watercourse or lake protection, under ~~emergency notices or~~
15 ~~exemption notices except for:~~

16 (1) hauling on existing roads,

17 (2) road maintenance,

18 (3) operations conducted for public safety,

19 (4) construction or reconstruction of approved watercourse crossings,

20 (5) temporary crossings of dry Class III watercourses which do not
21 require a "Streambed Alteration Agreement" under the Fish and Game Code; or

22 ~~(6) forest conditions requiring harvesting that is approved by a letter~~
23 ~~of concurrence from DFG harvesting recommended in writing by DFG to address~~
24 ~~specifically identified forest conditions.~~

25 ~~(t)(1)~~ (1) No timber operations are allowed in a WLPZ, or within any ELZ or
EEZ designated for watercourse or lake protection, under emergency notices

1 except for:

2 (1) hauling on existing roads,

3 (2) road maintenance,

4 (3) operations conducted for public safety,

5 (4) construction or reconstruction of approved watercourse crossings,

6 (5) temporary crossings of dry Class III watercourses which do not
7 require a "Streambed Alteration Agreement" under the Fish and Game Code,

8 (6) harvesting recommended in writing by DFG to address specifically
9 identified forest conditions,

10 (7) the harvest of dead or dying conifer trees subject to the following
11 conditions:

12 (A) Recruitment of large woody debris for aquatic habitat in Class I
13 anadromous fish-bearing or restorable waters shall be ensured by retaining
14 the ten largest dbh conifers (live or dead) per 330 feet of stream channel
15 length that are the most conducive to recruitment to provide for the
16 beneficial functions of riparian zones. The retained conifers shall be
17 selected from within the area of operations that lies within 50 feet of the
18 watercourse transition line. Where the area of operations is bounded by an
19 ownership boundary, a class I watercourse, and the WLPZ on both sides of the
20 watercourse currently meets the stocking standards listed under 14 CCR §
21 912.7[932.7,952.7](b)(2)}; the five (5) largest dbh conifers (live or dead)
22 per 330 feet of stream channel length that are the most conducive to
23 recruitment to provide for the beneficial functions of riparian zones shall
24 be retained within 50 feet of the watercourse transition line within the area
25 of operations.

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1 The RPF may provide alternatives to substitute smaller diameter trees,
2 trees that are more than 50 feet from the watercourse transition line, or
3 other alternatives on a site specific basis. The RPF must provide with the
4 notice an explanation and justification why the alternative provided is more
5 conducive to current and long-term Large Woody Debris recruitment, shading,
6 bank stability, and the beneficial functions of riparian zones.

7 (B) Within any WLPZ, ELZ, or EEZ designated for Class II or III
8 watercourse protection, a minimum of two dead, dying, or diseased conifer
9 trees per acre at least 16 inches diameter breast high and 50 feet tall shall
10 be retained within 50 feet of the watercourse transition line.

11 (C) Trees to be harvested or retained shall be marked by, or under
12 the supervision of, an RPF prior to timber operations within the WLPZ or
13 ELZ/EEZ.

14 (D) Within the WLPZ or ELZ/EEZ, if the stocking standards of 14 CCR
15 § 912[932, 952].7 are not met upon completion of timber operations, unless
16 the area meets the definition of substantially damaged timberlands, at least
17 ten trees shall be planted for each tree harvested but need not exceed an
18 average point count of 300 trees per acre.

19 ~~(u)(m)~~ No salvage logging is allowed in a WLPZ_ without an approved HCP,
20 an SYP, or an approved plan that contains a section that sets forth
21 objectives, goals, and measurable results for streamside salvage operations.

22 (1) This section does not apply to emergency operations under 14 CCR §
23 1052.

24 ~~(v)(n)~~ Nonstandard practices (i.e., waivers, exceptions, in-lieu
25 practices, and alternative practices) shall comply with the goal set forth in

1 subsection (a) above as well as with the other requirements set forth in the
2 rules.

3 ~~(w)~~(o) The Director may approve alternatives ~~provided the alternative~~
4 ~~practice will~~ that provide equal or better protection for listed anadromous
5 salmonids and achieve the goal of this section.

6 (1) Any alternative proposed under this subsection for timber
7 operations in a watershed with coho salmon shall only be included in a plan:
8 i) after consultation and written concurrence from DFG prior to plan
9 submittal, and ii) with a clear demonstration of compliance with the issuance
10 criteria described under Fish and Game Code § 2081(b) as determined by DFG.

11 (2) The Director shall not accept for inclusion in a plan any
12 alternative practice as described in this section where two or more agencies
13 listed in § 4582.6 of the PRC and 14 CCR § 1037.3 have submitted written
14 comments which lead to the Director's conclusion that the proposed
15 alternative will not meet the goal of this section and the agency(ies)
16 participated in the review of the plan, including an on-the-ground
17 inspection.

18 ~~(x)~~(p) Other measures that would effectively achieve the goal set forth in
19 14 CCR § 916.9(a) [936.9(a), 956.9(a)] may be approved (i) in accordance with
20 14 CCR § 916.6 [936.6, 956.6], or (ii) pursuant to a coho salmon watershed
21 evaluation for timber operations when the plan incorporates minimization and
22 mitigation measures based on the watershed evaluation, and with written
23 concurrence from DFG. The watershed evaluation must include the components
24 set forth below and shall be included in addition to all other District
25 Forest Practice Rules.

(1) The following are required components of a watershed evaluation:

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1 (A) Description of assessment area

2 (B) Status of coho salmon within each planning watershed in the
3 assessment area

4 (C) Status of coho salmon habitat conditions and water quality
5 within each planning watershed in the assessment area

6 (D) Identification and prioritization of limiting factors. A
7 reasoned analysis shall assign ratings of high, moderate and low to those
8 factors which may individually or cumulatively limit coho salmon distribution
9 and abundance in the watershed.

10 (E) Proposed planning watershed specific management practices to
11 prevent or control discharges and environmental impacts from timber
12 operations that could contribute to the identified high and moderate risk
13 limiting factors, and; corrective actions that would reduce or eliminate the
14 high and moderate risk limiting factors on the landscape and mitigate the
15 impacts of timber operations which cause or contribute to those limiting
16 factors.

17 (F) A plan and schedule for implementing proposed management
18 practices.

19 (G) A program for monitoring implementation and effectiveness of the
20 management practices and, where the plan is not effective in limiting or
21 eliminating the limiting factors as planned an adaptive management strategy
22 for changing the plan and schedule to ensure that limiting factors are
23 reduced or eliminated in the watershed.

24 ~~(y) The provisions of 14 CCR § 916.9 [936.9, 956.9] shall not apply to a~~
25 ~~plan that is subject to an incidental take permit based upon an approved~~
~~Habitat Conservation Plan that addresses anadromous salmonid protection.~~

1 (q) The operational provisions of 14 CCR §§ 916.9 [936.9, 956.9] and
2 916.9.2 [936.9.2] shall not apply to a plan under which the incidental take
3 from timber operations of each listed anadromous salmonid species within the
4 planning watershed is already authorized pursuant to the following:

5 (1) a valid incidental take permit issued by DFG pursuant to Section
6 2081(b) of the Fish and Game Code; or

7 (2) a federal incidental take statement or incidental take permit, for
8 which a consistency determination has been made pursuant to Section 2080.1 of
9 the Fish and Game Code; or

10 (3) Section 2835 of the Fish and Game Code under a valid natural
11 community conservation plan approved by DFG; or

12 (4) a federal incidental take statement or incidental take permit for
13 an anadromous salmonid species that is not state listed.

14 (r) The operational provisions of 14 CCR §§ 916.9 [936.9, 956.9] and
15 916.9.2 [936.9.2] shall not apply to a plan that specifies project revisions,
16 guidelines, or take avoidance measures pursuant to a memorandum of
17 understanding or a planning agreement entered into between the plan submitter
18 and DFG, which DFG has determined will avoid take of listed anadromous
19 salmonid species.

20 ~~(z) This section shall expire on December 31, 2007.~~

1 Adopt New 14 CCR §§ 916.9.1 and 936.9.1 Intent and Scope of Application of

2 Minimization and Mitigation Measures for Protection and Restoration in

3 Watersheds with Coho Salmon

4 (a) The minimization and mitigation measures for protection and
5 restoration in watersheds with coho salmon are intended to serve the
6 following purposes:

7 (1) To facilitate the process of obtaining incidental take permits for
8 state-listed coho salmon from DFG for timber operations under the California
9 Endangered Species Act (Fish & G. Code, § 2050 et seq.);

10 (2) To minimize potential cumulative effects of timber operations in
11 watersheds with coho salmon for the state's timber harvest permitting
12 program; and

13 (b) The scope of application of the minimization and mitigation measures
14 for protection and restoration in watersheds with coho salmon is as follows:

15 (1) In addition to all other District Forest Practice Rules, in any
16 watershed with coho salmon, the minimization and mitigation measures for
17 protection and restoration in watersheds with coho salmon shall apply to all
18 timber operations where DFG determines that take will, or is likely to result
19 from such proposed timber operations, unless an incidental take of coho
20 salmon is already authorized as specified under 14 CCR § 916.9 [936.9,
21 956.9](q).

1 Adopt New 14 CCR §§ 916.9.2 and 936.9.2 Minimization and Mitigation Measures
2 for Protection and Restoration in Watersheds with Coho Salmon

3 (a) Class I Watercourse and Lake Protection Measures - The following shall
4 apply to all Class I watercourses and lakes within watersheds with coho
5 salmon.

6 (1) Within a WLPZ for Class I watercourses and lakes, sufficient trees
7 shall be retained to maintain the preharvest level of direct shading to
8 pools. The percentage of shade provided by Group A species shall not be
9 reduced relative to other species.

10 (2) Recruitment of large woody debris for aquatic habitat in Class I
11 coho salmon-bearing watercourses or other restorable habitat shall be ensured
12 by retaining the ten (10) largest dbh conifers (live or dead) per 330 feet of
13 stream channel length on each side of the watercourse to provide for the
14 beneficial functions of riparian zones. The retained conifers shall be
15 selected from within the plan area that lies within 100 feet of the
16 watercourse transition line. Where the plan boundary is an ownership
17 boundary, a class I watercourse, and the WLPZ on both sides of the
18 watercourse currently meets the stocking standards listed under 14 CCR §
19 912.7(b)(2); the ten (10) largest dbh conifers (live or dead) per 330 feet of
20 stream channel length that provide for the beneficial functions of riparian
21 zones within the plan area shall be retained within 100 feet of the
22 watercourse transition line.

23 (b) Class II Watercourse and Lake Protection Measures - The following
24 shall apply to all Class II watercourses and lakes mapped on current 1:24,000
25 scale U.S. Geological Survey topographic map within watersheds with coho
salmon.

1 (1) Any timber operation or silvicultural prescription within 100 feet
2 of any Class II watercourse or lake transition line shall have protection,
3 maintenance, or restoration of the beneficial uses of water or the
4 populations and habitat of coho salmon or listed aquatic or riparian-
5 associated species as significant objectives.

6 (2) Where an inner gorge extends beyond a Class II WLPZ and watercourse
7 sideslopes are greater than 55 percent, a special management zone shall be
8 established where the use of evenaged regeneration methods is prohibited.
9 This zone shall extend upslope to the first major break-in-slope to less than
10 55 percent for a distance of 100 feet or more, or 200 feet as measured from
11 the watercourse or lake transition line, which ever is less. All operations
12 within the special management zone shall be reviewed by a Professional
13 Geologist prior to plan approval and disclosed and incorporated in the plan
14 as appropriate.

15 (3) The following shall apply to all WLPZs on Class II watercourses
16 that are tributary to Class I watercourses with coho salmon in the planning
17 watershed where timber operations are proposed or the planning watershed
18 immediately downstream except as provided under 14 CCR § 916.9.2 [936.9.2]

19 (b)(3)(E):

20 (A) Inner Band: From 0-50 feet, retain a minimum of 85 percent post-
21 harvest overstory canopy. The overstory canopy must be composed of at least
22 25 percent overstory conifer canopy post-harvest.

23 (B) Outer Band with 0-30 percent watercourse sideslope: From 50-75
24 feet, retain a minimum of 65 percent post-harvest overstory canopy. The
25 overstory canopy must be composed of at least 25 percent overstory conifer
canopy post-harvest.

1
2 (C) Outer Band with 31-50 percent watercourse sideslope: From 50-100
3 feet, retain a minimum of 65 percent post harvest overstory canopy. The
4 overstory canopy must be composed of at least 25 percent overstory conifer
5 canopy post-harvest.

6 (D) Outer Band with >50 percent watercourse sideslope: From 50-125
7 feet, retain a minimum of 65 percent post-harvest overstory canopy. WLPZ
8 width may be reduced to 100 feet for helicopter or cable yarding operations.
9 The overstory canopy must be composed of at least 25 percent overstory
10 conifer canopy post-harvest.

11 (E) 14 CCR § 916.9.2 [936.9.2] (b)(3)(B)(C) and (D) do not apply to
12 plans in the Southern Subdistrict of the Coast Forest District or to NTMPs
13 within watersheds with coho salmon.

14 (c) Class III Watercourse Protection Measures - The following shall apply
15 to all Class III watercourses within watersheds with coho salmon in or
16 adjacent to harvest units where evenaged management, rehabilitation of under-
17 stocked stands, or variable retention prescriptions are proposed.

18 (1) retain all trees situated within the channel zone and trees that
19 have boles that overlap the edge of the channel zone;

20 (2) within the ELZ, at least 50 percent of the understory vegetation
21 shall be left post-harvest in an evenly distributed condition;

22 (3) within the ELZ; retain all snags, large woody debris, and
23 countable trees 10 inches dbh or less, except where necessary to allow for
24 cable yarding corridors, safety, or crossing construction;

25 (4) within the ELZ, prohibit initiation of any burning;

1 (5) allow cable yarding when necessary to transport logs through a

2 Class III ELZ;

3 (6) tractor yarding is prohibited, except for the use of feller-

4 bunchers and shovel yarding that minimize soil compaction and disturbance

5 and;

6 (7) retain at least 15 square feet basal area per acre of hardwoods

7 where it exists before harvest, including the largest hardwoods available for

8 this purpose. Retain all hardwoods when less than 15 square feet basal area

9 per acre is present before harvest.

10 (d) Where harvesting is proposed on a connected headwall swale:

11 (1) only the selection regeneration method allowed under 14 CCR § 913.2

12 [933.2, 953.2] (a) (2) (A) or the commercial thinning intermediate treatment

13 allowed under 14 CCR § 913.3 [933.3, 953.3] (a) may be utilized in that area,

14 (2) Areas of ground based yarding shall be delineated on the ground as

15 an equipment limitation zone and marked prior to the preharvest inspection.

16 (3) All proposed road construction or reconstruction shall be reviewed

17 by a Professional Geologist and disclosed and incorporated in the plan as

18 appropriate prior to plan approval.

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1 **Repeal Existing 14 CCR §§ 916.11, 936.11, and 956.11 Effectiveness and**
2 **Implementation Monitoring**

3 ~~(a) Where timber operations will be conducted within a WLPZ, the Director~~
4 ~~may require a post-harvest evaluation of the effectiveness of the mitigations~~
5 ~~and practices designed to protect the watercourse(s) or lake(s) as a~~
6 ~~condition of plan approval. The Director shall require such an evaluation if~~
7 ~~the necessity for the evaluation is supported by substantial evidence in the~~
8 ~~record. This evidence may include, but is not limited to, potential land~~
9 ~~failures, accelerated rate of road construction or harvesting within a~~
10 ~~watershed, concentration or intensity of harvesting activity near~~
11 ~~watercourses, and potential for accelerated windthrow. The design and~~
12 ~~implementation of the evaluation shall be done in consultation with the~~
13 ~~Director, the RWQCB or DFC, and THP submitter, and the sufficiency of the~~
14 ~~information requested by the Director shall be judged in light of~~
15 ~~reasonableness and practicality. The evaluation may utilize procedures~~
16 ~~including, but not limited, to:~~

- 17 ~~(1) Procedures for effectiveness and implementation monitoring,~~
- 18 ~~(2) Existing landowner monitoring programs, or~~
- 19 ~~(3) Photographic monitoring~~

20 ~~(b) This section shall expire on December 31, 2007.~~

1 Adopt New 14 CCR § 916.11, 936.11, and 956.11 Monitoring for Adaptive
2 Management in Watersheds with Listed Anadromous Salmonids [All Districts]

3 (a) Goal: The Board will develop a monitoring and adaptive management
4 program for timber harvesting operations in watersheds with listed anadromous
5 salmonids. The purpose of the program will be: (i) to determine whether or
6 not the operational Forest Practice Rules and associated hillslope and
7 instream mitigation measures afford a level of protection that is both
8 appropriate and adequate to ensure protection of anadromous salmonids and
9 their habitats, (ii) to provide monitoring necessary to ensure the Forest
10 Practice Rules are being implemented in a manner consistent with the
11 California Endangered Species Act as required under 14 CCR § 896, and (iii)
12 to provide a timely feedback process for the Board to assess rule
13 effectiveness in meeting the stated goals under subsections (i) and (ii).

14 (1) The monitoring component of the program will provide the
15 information necessary to evaluate the effectiveness of mitigation measures
16 and identify when site-specific mitigation or operational rules should be
17 revised to better accomplish the goals of the Board.

18 (A) Four types of monitoring will be addressed under the program
19 including: (i) compliance, (ii) implementation, (iii) effectiveness, and (iv)
20 validation.

21 (B) Review Team agencies will continue to conduct mandated
22 compliance and implementation monitoring as part of their regulatory
23 responsibilities.

24 (C) Effectiveness monitoring will be undertaken by the landowner; or
25 be a cooperative effort between landowners and the Department, Review Team
agencies, or a cooperative interdisciplinary team.

1 (D) Long-term validation monitoring will be undertaken by the
2 landowner, or facilitated through cooperative agreements among stakeholders
3 and the agencies. This includes monitoring the species' responses.

4 (E) The Board or its designee may include any monitoring that meets
5 the intent of this section, including any efforts that are already underway
6 by the landowner, agencies or other cooperators.

7 (2) The adaptive management component of the program will be a process
8 of action-based planning, monitoring, evaluating and adjusting through use of
9 the scientific method; with the objective of improving habitat conditions and
10 facilitating conservation of listed anadromous salmonids.

11 (A) Four elements of adaptive management will be addressed under the
12 program including: (i) identification of substantial new information, (ii)
13 collection of substantial new information, (iii) evaluation of substantial new
14 information, and (iv) determination regarding the necessity or benefit of
15 adjustments and improvements to mitigation and protective measures, including
16 the Forest Practice Rules, based upon the substantial new information.

17 (b) The monitoring requirements listed under 14 CCR § 916.11 [936.11,
18 956.11](b)(1) through (b)(5) or 14 CCR § 916.11 [936.11, 956.11](b)(5) and
19 (b)(6) shall apply to timber harvesting operations in watersheds with listed
20 anadromous salmonids in addition to the inspection requirements outlined in
21 PRC § 4604:

22 (1) In collaboration with other Review Team agencies, the Director
23 shall develop monitoring practices to evaluate the effectiveness of
24 mitigation measures at the appropriate scale, on a case-by-case basis.

25 (A) In development of monitoring practices, the Director may also
engage other experts in the field for assistance.

1 (B) The monitoring practices will be applied by the landowner; or be
2 a cooperative effort between landowners and the Department, Review Team
3 agencies, or a cooperative interdisciplinary team.

4 (2) Monitoring practices and strategies may be peer reviewed by a
5 scientific technical advisory committee as directed by the Board.

6 (3) The design and implementation of monitoring shall be done in
7 consultation with the Department and other Review Team agencies, and the
8 sufficiency of information shall be judged in light of its scientific merit
9 and what is reasonable and practical.

10 (A) Monitoring data shall be derived from agency monitoring
11 programs, landowner monitoring programs, or cooperative projects.

12 (4) As a condition of plan approval, based upon substantial evidence in
13 the record, the Director may require monitoring:

14 (A) Anytime after plan approval,

15 (B) Concurrent with timber operations, and

16 (C) After completion of operations during the remainder of the
17 prescribed maintenance period.

18 (5) Monitoring data collected pursuant to (b)(4) or (b)(6) shall be
19 provided to the Director annually.

20 (6) The plan shall incorporate monitoring requirements in conformance
21 with the requirements of a valid incidental take permit for each listed
22 anadromous salmonid species within the planning watershed that has been
23 authorized pursuant to the following:

24 (A) a valid incidental take permit issued by DFG pursuant to Section
25 2081(b) of the Fish and Game Code; or

1 (B) a federal incidental take statement or incidental take permit,
2 for which a consistency determination has been made pursuant to Section
3 2080.1 of the Fish and Game Code; or

4 (C) Section 2835 of the Fish and Game Code under a valid natural
5 community conservation plan approved by DFG; or

6 (D) a federal incidental take statement or incidental take permit
7 for an anadromous salmonid species that is not state listed.

8 (c) The Department shall prepare an annual report in conjunction with a
9 Board appointed technical subcommittee summarizing progress and significant
10 findings from monitoring activities collected throughout the year in
11 accordance with subsection (b)(4) above. The report shall be (i) provided to
12 the Board during the first quarter of each calendar year, (ii) made available
13 to the public upon request, and (iii) placed on the Board's website for at
14 least 180 days.

15 (d) Based upon the findings presented in the annual monitoring report(s),
16 the Director may recommend additions, deletions or modifications to the
17 Forest Practice Rules if the necessity for such a change is supported by
18 substantial evidence in the reports. A specific recommendation based upon
19 the findings that a rule requirement is no longer necessary shall also be
20 supported by substantial evidence.

1 **Amend 14 CCR §§ 916.12, 936.12, and 956.12 - Section 303(d) Listed Watersheds**

2 *****(e) The watershed specific rules shall remain in effect until the water
3 body has been removed from the 303(d) list, or that the Board finds, after
4 consulting with the appropriate RWQCB, that timber operations are no longer a
5 significant source of the pollutant or stressor that limits water quality in
6 the listed water body.

7 ~~(f) This section shall expire on December 31, 2007.~~

8 **Amend 14 CCR §§ 923.3, 943.3, and 963.3 - Watercourse Crossings**

9 *****(g) Any new permanent culverts installed within class I watercourses
10 shall allow upstream and downstream passage of fish or listed aquatic species
11 during any life stage and for the natural movement of bedload to form a
12 continuous bed through the culvert and shall require an analysis and
13 specifications demonstrating conformance with the intent of this section and
14 subsection.

15 ~~(h) The amendments to 14 CCR § 923.3 [943.3, 963.3] that became effective
16 July 1, 2000, shall expire on December 31, 2007.~~

1 **Amend 14 CCR §§ 923.9, 943.9, and 963.9 Minimization and Mitigation Measures**
2 **for Roads and Landings in Watersheds with Listed Anadromous Salmonids**
3 **~~Threatened or Impaired Values~~**

4 In addition to all other ~~d~~ District Forest Practice Rules, the following
5 requirements shall apply to construction, reconstruction, improvements
6 ~~upgrades~~, maintenance, and operation of roads within and appurtenant to plans
7 in any ~~planning~~ watershed with listed anadromous salmonids ~~threatened or~~
8 ~~impaired values~~:

9 (a) For Class I watercourses, any plan involving timber operations within
10 the WLPZ shall contain the following information:

11 (1) A description of all crossings of Class I watercourses by logging
12 roads and clear specifications regarding how these crossings are to be
13 modified, used, and treated to minimize risks, giving special attention to
14 allowing fish to pass both upstream and downstream during all life stages.

15 (2) Clear and enforceable specifications for construction and operation
16 of any new crossing of Class I watercourses to prevent direct harm, habitat
17 degradation, water velocity increase, hindrance of fish passage, or other
18 potential impairment of beneficial uses of water.

19 ~~(a)~~ (b) Where logging road or landing construction or reconstruction is
20 proposed, the plan shall state the locations of and specifications for road
21 or landing abandonment or other mitigation measures to minimize the adverse
22 effects of long-term site occupancy of the transportation system within the
23 watershed.

24 ~~(b)~~ (c) Unless prohibited by existing contracts with the U.S.D.A. Forest
25 Service or other federal agency, new and reconstructed logging roads shall be
no wider than a single-lane compatible with the largest type of equipment

1 specified for use on the road, with adequate turnouts provided as required
2 for safety. The maximum width of these roads shall be specified in the plan.
3 These roads shall be outsloped where feasible and drained with water breaks
4 or rolling dips (where the road grade is inclined at 7 percent or less), in
5 conformance with other applicable Forest Practice Rules.

6 ~~(e)~~(d) The following shall apply on slopes greater than 50% percent:

7 (1) Specific provisions of construction shall be identified and
8 described for all new roads.

9 (2) Where cutbank stability is not an issue, roads may be constructed
10 as a full-benched cut (no fill). Spoils not utilized in road construction
11 shall be disposed of in stable areas with less than 30 percent slope and
12 outside of any WLPZ, EEZ, or ELZ.

13 (3) Alternatively, roads may be constructed with balanced cuts and
14 fills if properly engineered, or fills may be removed with the slopes
15 recontoured prior to the winter period.

16 ~~(d)~~(e) In addition to the provisions listed under 14 CCR § 923.1(e)
17 [943.1(e), 963.1(e)], all permanent or seasonal logging roads with a grade of
18 15% percent or greater that extends 500 continuous feet or more shall have
19 specific erosion control measures stated in the plan.

20 ~~(e)~~(f) Where situations exist that elevate risks to the values set forth
21 in 14 CCR § 916.2(a), [936.2(a), 956.2(a)] (e.g., road networks are remote,
22 the landscape is unstable, water conveyance features historically have a high
23 failure rate, culvert fills are large) drainage structures and erosion
24 control features shall be oversized, low maintenance, or reinforced, or they
25 shall be removed before the completion of the timber operation. The method
of analysis and the design for crossing protection shall be included in the
plan.

(g) From October 15 to May 1, the following shall apply:

(1) no tractor roads shall be constructed, reconstructed, or used on
slopes that are over 40 percent and within 200 feet of a Class I, II, or III

1 watercourse, as measured from the watercourse or lake transition line unless
2 a winter period operating plan required pursuant to 14 CCR § 914.7 [934.7,
3 954.7](a) has been approved for operations during an extended period with low
4 antecedent soil wetness,, and

5 (2) operation of trucks and heavy equipment on roads and landings shall
6 be limited to those with a stable operating surface.

7 (h) Construction or reconstruction of logging roads, tractor roads, or
8 landings shall not take place during the winter period unless an approved
9 winter period operating plan required pursuant to 14 CCR § 914.7 [934.7,
10 954.7](a) specifically addresses such road construction. Use of logging
11 roads, tractor roads, or landings shall not take place at any location where
12 saturated soil conditions exist, where a stable logging road or landing
13 operating surface does not exist, or when visibly turbid water from the road,
14 landing, or skid trail surface or inside ditch may reach a watercourse or
15 lake. Grading to obtain a drier running surface more than one time before
16 reincorporation of any resulting berms back into the road surface is
17 prohibited.

18 (i) All tractor roads shall have drainage and/or drainage collection and
19 storage facilities installed as soon as practical following yarding and prior
20 to either:

21 (1) the start of any rain which causes overland flow across or along
22 the disturbed surface within a WLPZ or within any ELZ or EEZ designated for
23 watercourse or lake protection, or

24 (2) any day with a National Weather Service forecast of a chance of
25 rain of 30 percent or more, a flash flood warning, or a flash flood watch.

1 (j) The erosion control maintenance period on permanent and seasonal roads
2 and associated landings that are not abandoned in accordance with 14 CCR §
3 923.8 [943.8, 963.8] shall be three years.

4 (k) Water drafting for timber operations from within a channel zone of a
5 natural watercourse or from a lake shall conform with the following
6 standards:

7 (1) The RPF shall incorporate into the plan:

8 (A) a description and map of proposed water drafting locations,

9 (B) the watercourse or lake classification, and

10 (C) the general drafting location use parameters (i.e., yearly
11 timing, estimated total volume needed, estimated total uptake rate and
12 filling time, and associated water drafting activities from other plans).

13 (2) On Class I and Class II watercourse where the RPF has estimated
14 that:

15 (A) bypass flows are less than 2 cubic feet per second, or

16 (B) pool volume at the water drafting site would be reduced by 10
17 percent, or

18 (C) diversion rate exceeds 350 gallons per minute, or

19 (D) diversion rate exceeds 10 percent of the above surface flow;
20 no water drafting shall occur unless the RPF prepares a water drafting plan
21 to be reviewed and, if necessary a streambed alteration agreement issued, by
22 DFG and approved by the Director. The Director may accept the project
23 description and conditions portion of an approved "Streambed Alteration
24 Agreement" issued under the Fish and Game Code (F&GC 1600 et seq.) which is
25 submitted instead of the water drafting plan described in 14 CCR § 916.9
[936.9, 956.9] (r)(2)(D)(1-5).

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1 The water drafting plan shall include, but not be limited to:

2 1. disclosure of estimated percent streamflow reduction and
3 duration of reduction,

4 2. discussion of the effects of single pumping operations, or
5 multiple pumping operations at the same location,

6 3. proposed alternatives and discussion to prevent adverse
7 effects (e.g. reduction in hose diameter, reduction in total intake at one
8 location, described allowances for recharge time, and alternative water
9 drafting locations),

10 4. conditions for operators to include an operations log kept on
11 the water truck containing the following information: Date, Time, Pump Rate,
12 Filling Time, Screen Cleaned, Screen Conditions, and Bypass flow
13 observations,

14 5. a statement by the RPF for a pre-operations field review with
15 the operator to discuss the conditions in the water drafting plan.

16 (3) Intakes shall be screened in Class I and Class II watercourses and
17 lakes. Screens shall be designed to prevent the entrainment or impingement of
18 all life stages of fish or amphibians. Screen specifications shall be
19 included in the plan.

20 (4) Approaches to drafting locations within a WLPZ shall be treated in
21 accordance with the provisions of 14 CCR § 923.9.2 [943.9.2](d)(5).

22 ~~(f) The provisions of 14 CCR 923.9 [943.9, 963.9] shall not apply to a~~
23 ~~plan that is subject to an incidental take permit based upon an approved~~
24 ~~Habitat Conservation Plan or that addresses anadromous salmonid protection.~~

25 (1) The operational provisions of 14 CCR §§ 923.9 [943.9, 963.9] and
923.9.2 [943.9.2] shall not apply to a plan under which the incidental take

1 from timber operations of each listed anadromous salmonid species within the
2 planning watershed is already authorized pursuant to the following:

3 (1) a valid incidental take permit issued by DFG pursuant to Section
4 2081(b) of the Fish and Game Code; or

5 (2) a federal incidental take statement or incidental take permit, for
6 which a consistency determination has been made pursuant to Section 2080.1 of
7 the Fish and Game Code; or

8 (3) Section 2835 of the Fish and Game Code under a valid natural
9 community conservation plan approved by DFG; or

10 (4) a federal incidental take statement or incidental take permit for
11 an anadromous salmonid species that is not state listed.

12 (m) The operational provisions of 14 CCR §§ 923.9 [943.9, 963.9] and
13 923.9.2 [943.9.2] shall not apply to a plan that specifies project revisions,
14 guidelines, or take avoidance measures pursuant to a memorandum of
15 understanding or a planning agreement entered into between the plan submitter
16 and DFG, which DFG has determined will avoid take of listed anadromous
17 salmonid species.

18 ~~(g) This section shall expire on December 31, 2007.~~

1 Adopt New 14 CCR §§ 923.9.1 and 943.9.1 Intent and Scope of Application of
2 Minimization and Mitigation Measures for Roads and Landings in Watersheds
3 with Coho Salmon

4 (a) The minimization and mitigation measures for roads and landings in
5 watersheds with coho salmon are intended to serve the following purposes:

6 (1) To streamline and facilitate the process of obtaining incidental
7 take permits for state-listed coho salmon from DFG for timber operations
8 under the California Endangered Species Act (Fish & G. Code, § 2050 et seq.);

9 (2) To minimize potential cumulative effects of timber operations in
10 watersheds with coho salmon for the state's timber harvest permitting
11 program; and

12 (3) To provide the basis for an application to the National Marine
13 Fisheries Service for a habitat conservation plan that would provide
14 incidental take coverage for federally-listed anadromous salmonids for the
15 state's timber harvest permitting program.

16 (b) The scope of application of the minimization and mitigation measures
17 for roads and landings in watersheds with coho salmon is as follows:

18 (1) In addition to all other District Forest Practice Rules, in any
19 watershed with coho salmon, the minimization and mitigation measures for
20 roads and landings in watersheds with coho salmon shall apply to all timber
21 operations where DFG determines that take will, or is likely to result from
22 such proposed timber operations, unless an incidental take of coho salmon is
23 already authorized as specified under 14 CCR § 923.9 [943.9, 963.9](1).

1 Adopt New 14 CCR §§ 923.9.2 and 943.9.2 Minimization and Mitigation Measures
2 for Roads and Landings in Watersheds with Coho Salmon

3 (a) An assessment of road surface and drainage conditions for all road
4 segments within the plan area and appurtenant to proposed operations shall be
5 included in the plan.

6 (1) The assessment shall contain a list of site-specific, field
7 inventory information including proposed treatment of existing or potential
8 sediment sources for all crossings, ditch relief culverts, road surfaces,
9 road cuts, road fills, landings, turnouts and inboard ditches.

10 (A) Field inventory information shall be obtained by an RPF or
11 supervised designee while traversing the road segments.

12 (2) The assessment shall be subject to approval by the Director, with
13 written concurrence by DFG. Additional field inventory, work sites, and/or
14 alternative treatments may be required.

15 (3) The results of the road assessment shall be used to, construct,
16 reconstruct, or decommission road segments prior to filing a work completion
17 report. Maintenance needs identified during and after the road assessment
18 shall be addressed as soon as is feasible.

19 (b) Within WLPZs, any new road or landing construction, reconstruction,
20 new watercourse crossings, use of Class I fords or opening of old roads
21 (except for the purpose of decommissioning) will be subject to approval by
22 the Director, with written concurrence by DFG. The Director will only
23 approve such practices where protection for aquatic habitat provided by
24 proposed practices is at least equal to the protection provided by the use of
25 alternate routes or locations outside of the WLPZ.

1 (c) The guidelines and performance standards for road decommissioning
2 methods described in the California Salmonid Stream Habitat Restoration
3 Manual, 1998, 3rd edition; pages X-53 through X-59 (published by State of
4 California, Resources Agency, California Department of Fish and Game) shall
5 be followed.

6 (d) The following design features shall be included in the maintenance,
7 construction, reconstruction, or decommissioning of roads, except where site-
8 specific alternatives are explained, justified, and approved by the Director,
9 with written concurrence by DFG. The Director may only approve alternatives
10 where the consequences for aquatic habitat are no greater than would result
11 from the standard measures. Except for maintenance needs that arise from
12 October 15 to June 1, all work described below shall be completed before
13 October 15 in the year that work begins.

14 (1) Road surfaces shall be outsloped with rolling dips, wherever
15 feasible.

16 (2) All road segments shall be hydrologically disconnected, to the
17 extent feasible, from watercourses and lakes by site specific application of
18 the following: outsloping, rocking, installation of rolling dips, cross
19 drains, and/or waterbars, except where site-specific alternatives are
20 explained and justified in the plan, and approved by the Director, with
21 written concurrence by DFG. All of these features shall drain to stable
22 sediment filter strips.

23 (3) Crossings and associated fills shall be removed or reconstructed
24 where there is evidence of failure potential or sediment delivery to Class I,
25 II, or III watercourses and lakes.

1 (4) Culverts shall be replaced or removed if they are crushed,
2 perforated, piping, separated, not adequate to carry water from the fifty-
3 year flood level, located in unstable fill, or causing erosion that may be
4 expected to deliver sediment to Class I, II, or III watercourses and lakes.
5 Replaced culverts shall be installed at or as close to the original stream
6 grade and slope as feasible.

7 (5) Each road approach to a watercourse crossing shall be treated to
8 create and maintain a stable operating surface, and to avoid the generation
9 of fines during use, in accordance with subsection (A) through (F) below.

10 The road approach encompasses either of the following areas, whichever is
11 less:

12 (i) the area from the watercourse channel to the nearest drainage
13 facility, but not less than 50 feet; or

14 (ii) the area from the watercourse channel to the first high point
15 on the road where road drainage flows away from the watercourse.

16 (A) Road surfaces on the following shall consist of high-quality,
17 durable, compacted rock or paving:

18 (i) permanent roads

19 (ii) seasonal roads crossing Class I watercourses

20 (iii) roads used for hauling (logs, rock, heavy equipment)

21 from October 15 to June 1.

22 (B) Road surfaces on the following shall be treated with either:
23 rock, slash, seed and straw mulch, seed and stabilized straw, or seed and
24 slash:

25 (i) all seasonal roads used for hauling in the current year

1 (ii) all seasonal roads used from October 15 to June 1 for
2 purposes other than hauling

3 (C) Approaches to temporary crossings shall be rocked as needed
4 after crossing removal to avoid rutting or pumping fines during use.

5 (D) Ditches exhibiting downcutting along the following shall be
6 lined with high-quality, durable rock:

7 (i) permanent roads

8 (ii) seasonal roads crossing Class I watercourses

9 (iii) roads used for hauling from October 15 to June 1.

10 (E) Ditches along the following shall be treated to prevent
11 scour:

12 (i) seasonal roads used for hauling in the current year

13 (ii) seasonal roads used from October 15 to June 1 for
14 purposes other than hauling.

15 (F) Bare soil on associated fill slopes, shoulders and cuts shall
16 be treated to minimize erosion.

17 (6) Sediment discharge from unstable or eroding cutbanks, fillslopes
18 and landing fills will be prevented by pulling, buttressing, or other means
19 and by installing and maintaining effective erosion control materials.

20 (7) Bridges (including associated fill, rip rap, and abutments) and
21 bridge approaches showing evidence of failure potential or sediment delivery
22 to Class I, II, or III watercourses and lakes shall be repaired, replaced, or
23 removed.

24 (e) Erosion control materials shall be applied in sufficient quantity
25 prior to the onset of measurable precipitation with re-application as needed

1 to avoid any visible increase in surface erosion or turbidity in Class I, II
2 or III receiving watercourses and lakes.

3 (f) All roads in Class I WLPZs shall exhibit a rocked or paved stable
4 operating surface. The surface shall consist of high quality, durable,
5 compacted rock, or paving. The road surface and base shall be maintained to
6 avoid generation of fines during use.

7 (g) (1) No road or landing construction, reconstruction, or
8 decommissioning shall be undertaken from October 15th to May 15th, or at any
9 time outside this period when saturated soil conditions exist, except as
10 provided in subsection (2) or (3).

11 (2) No road or landing construction, reconstruction, or
12 decommissioning shall be undertaken from October 15th to June 1st, or at any
13 time outside this period when saturated soil conditions exist within (i) all
14 planning watersheds that drain into the Mattole watershed, (ii) all planning
15 watersheds wholly or partially contained within Del Norte County, and (iii)
16 the following specified planning watersheds in Humboldt County; where average
17 May rainfall exceeds three inches.

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<u>CALWATER 2.2</u>	<u>ID Number</u>	<u>Coho Status</u>	<u>Acres</u>
<u>Planning Watershed</u>			
<u>McGarvey Creek</u>	<u>1105.110806</u>	<u>Present</u>	<u>13442.2</u>
<u>May Creek</u>	<u>1107.100201</u>	<u>Present</u>	<u>11242.8</u>
<u>Lost Man Creek</u>	<u>1107.100104</u>	<u>Present</u>	<u>12704.5</u>
<u>Skunk Cabbage</u>			
<u>Creek</u>	<u>1107.100203</u>	<u>Present</u>	<u>4855.1</u>
<u>McArthur Creek</u>	<u>1107.100103</u>	<u>Present</u>	<u>6814.1</u>
<u>McDonald Creek</u>	<u>1108.100002</u>	<u>Present</u>	<u>23879.8</u>
<u>Bond Creek</u>	<u>1107.100102</u>	<u>Present</u>	<u>8200.5</u>
<u>Tarup Creek</u>	<u>1105.110703</u>	<u>Present</u>	<u>12429.2</u>
<u>Pitcher Creek</u>	<u>1108.100001</u>	<u>Present</u>	<u>13179.4</u>
<u>Maple Creek</u>	<u>1108.100003</u>	<u>Present</u>	<u>16841.5</u>
<u>Ah Pah Creek</u>	<u>1105.110702</u>	<u>Present</u>	<u>10771.8</u>
<u>Bridge Creek</u>	<u>1107.100101</u>	<u>Present</u>	<u>15055.9</u>

(3) The RPF may propose site-specific exceptions that are explained and justified in the plan, and approved by the Director, with written concurrence by DFG. The Director will only approve exceptions where the protection provided for aquatic habitat by the proposed practices is at least equal to the protection provided by the above time period or conditions. Access without specific approval by the Director is allowed to correct emergency, road-related problems demanding immediate action.

1 (h) Use of unpaved roads shall cease when precipitation is sufficient to
2 generate overland flow off the road surface, use of any portion of the road
3 results in rutting of the road surface, or a stable operating surface can not
4 be maintained.

5 (i) (1) Resumption of road use shall only occur when there is a stable
6 operating surface.

7 (2) Resumption of road or landing construction or reconstruction,
8 shall not occur until the soil conditions allow a stable operating surface to
9 be developed.

10 (j) (1) All roads within the plan area and appurtenant to proposed
11 operations shall be inspected

12 (A) by the LTO at least twice annually - once between June 1st and
13 October 15th and at least once after October 15th following the first storm
14 event producing bankfull stage- prior to completion of operations;

15 (B) by the timberland owner during the same time period for the
16 remainder of the prescribed maintenance period.

17 (2) The inspection shall be started as soon as conditions permit access
18 (in accordance with 14 CCR § 923.9.2 [943.9.2](i)) to ensure that drainage
19 structures and facilities are functioning to hydrologically disconnect the
20 road prism from waters.

21 (3) Inspection results and follow up corrective measures shall be
22 documented and shall be provided to CDF and DFG.

23 (k) Decommissioned roads shall be inspected following the first storm
24 event producing bankfull stage after decommissioning and again prior to
25 filing the completion report. The purpose of the inspection will be to
verify the effectiveness of treatments in preventing sediment discharges to

1 waters and to ensure treatments are functioning to restore natural drainage
2 and hillslope stability. If treatments are found to be ineffective prior to
3 the end of the prescribed maintenance period, further treatments shall be
4 applied if the volume of sediment prevented from entering a channel by
5 additional treatments is greater than that incurred by re-entering the site.

6 (l) During road inspection and maintenance, measures shall be employed to
7 ensure the following: waterbars fully capture run-off from road surfaces and
8 discharge it without gully formation or sediment delivery to waters; culverts
9 (including crossdrains) are not occluded by debris; inboard ditches are not
10 downcutting or scouring; cutbank erosion is minimized, and the fine sediment
11 present on road surfaces is prevented from delivery to Class I, II, or III
12 watercourses and lakes.

13 (m) Routine corrective work that prevents diversion of water from a
14 watercourse or ditch or helps maintain a stable operating surface (e.g.,
15 repairing inboard ditches, cross drains, water bars, road surface and fill,
16 unblocking of culverts) shall be performed as soon as possible, regardless of
17 the time of year. Vehicle access for routine corrective work shall only be
18 permitted in accordance with 14 CCR § 923.9.2 [943.9.2](i). Other
19 maintenance needs of lower priority shall be undertaken between June 1st and
20 October 15th.

21 (n) Forest floor discharge sites below the outlets of drainage facilities
22 on all roads within the plan area and appurtenant to proposed operations
23 shall be inspected by the LTO for evidence of sediment delivery to Class I,
24 II, or III watercourses and lakes at least twice annually; once between June
25 1 and October 15, and at least once after October 15 following the first
storm event producing bankfull stage discharges prior to filing the notice of

1 completion report. If evidence of sediment delivery is present, additional
2 cross drains, waterbars, or rolling dips shall be installed to reduce the
3 discharge volume to the site.

4 (o) Grading of road surfaces shall occur only when necessary to achieve a
5 uniform, stable, and well-drained operating surface. Inboard ditches shall
6 be graded only when they are blocked or lack adequate inside ditch hydraulic
7 capacity, or driver safety is a concern. Where feasible, blading the segment
8 of ditch between the watercourse and first drainage facility shall be
9 avoided.

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