



Workshop
for the
Proposed Water Quality Objectives
Update Amendment
to the
Water Quality Control Plan
for the
North Coast Region

Item 8

November 3, 2011

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North Coast Regional Water Quality Control Board

Overview of Staff Presentation

- Goal of the Basin Plan amendment
- Scope of the proposed amendment
- Framework of proposed WQO Update amendment
- Schedule and Contact Information

Goal of the Basin Plan Amendment

Further development of a comprehensive regionwide groundwater protection program

- Clarify the process the Regional Water Board uses to establish numeric limits in permits, orders and other Board directives.
- Develop/refine groundwater protection implementation program

Scope of the Proposed Basin Plan Amendment

- Phase 1 – Water Quality Objectives Update
- Phase 2 – Groundwater Implementation Plan
 - CEQA scoping meeting - early 2012
 - Groundwater Implementation Plan amendment to the Board for consideration in early 2013



Framework for Water Quality Objective Update Basin Plan Amendment

- **Revise Chapter - 3 Water Quality Objectives**
 - Editorial Revisions
 - Substantive Revisions
- **Revise Chapter 4 - Implementation Plans**
 - Editorial Revisions
 - Substantive Revisions

Proposed Editorial Revisions to Chapters 3 and 4

- Replace “Section 3 - Water Quality Objectives” with “Chapter 3 - Water Quality Objectives”
- Replace “Section 4 - Implementation Plans” with “Chapter 4 - Implementation Policies and Action Plans”
- Introduce section numbering system
- Remove references to Basin Plan appendices no longer proposed for inclusion in the Basin Plan

Proposed Editorial Revisions to Chapters 3 and 4 (con't)

- Add a new section header to Chapter 4 “Regionwide Policies”
- Revise the *Schedules of Compliance* section
- Reformat/move Tables 3-1 and 3-1a
- Create Table 3-1b from Table 3-1, footnote 5 (Trinity River temperature objectives)

Trinity River Temperature Objectives

Existing Table 3-1, footnote 5

⁵ <u>Daily Average Not to Exceed</u>	<u>Period</u>	<u>River Reach</u>
60°F	July 1 - Sept. 14	Lewiston Dam to Douglas City Bridge
56°F	Sept. 15 - Oct. 1	Lewiston Dam to Douglas City Bridge
56°F	Oct. 1 - Dec. 31	Lewiston Dam to confluence of North Fork Trinity River

New Table 3-1b

TABLE 3-1b. SPECIFIC OBJECTIVES FOR TEMPERATURE IN THE UPPER TRINITY RIVER

Location/River Reach	Daily Average Not to Exceed	Time Period
Lewiston Dam to Douglas City Bridge	60°F	July 1 – September 14
	56°F	September 15 – October 1
Lewiston Dam to confluence of North Fork Trinity River	56°F	October 1 - December 31

Proposed Revisions to Basin Plan Chapter 3 Water Quality Objectives

- Add new toxicity objective for groundwater
- Revisions to the existing numeric and narrative water quality objectives for surface and groundwater to update and clarify language
- Delete Table 3-2 - *Inorganic, Organic, and Fluoride Concentrations Not to be Exceeded in Domestic or Municipal Supply*

Proposed Groundwater Toxicity Objective

Groundwaters shall be maintained free of toxic substances in concentrations that are toxic to, or that produce detrimental physiological responses in humans or aquatic life associated with the beneficial use(s) or that adversely impact beneficial uses. This objective applies regardless of whether the toxicity is caused by a single substance or the interactive effect of multiple substances.

To determine whether toxic substances are present in concentrations that adversely affect beneficial uses, the Regional Water Board will implement the procedure identified in the *Policy for the Application of Narrative Water Quality Objectives* (Chapter 4).

Example of Proposed Revision

Surface Water Chemical Constituent Objective

~~Waters designated for use as domestic or municipal supply (MUN) shall not contain concentrations of chemical constituents at concentrations that adversely affect such beneficial uses. To determine whether chemical constituents are present in concentrations that adversely affect beneficial uses, the Regional Water Board will implement the procedure identified in the *Policy for the Application of Narrative Water Quality Objectives* (Chapter 4).~~

~~in excess of the limits specified in California Code of Regulations, Title 22, Chapter 15, Division 4, Article 4, Section 64435 (Tables 2 and 3), and Section 64444.5 (Table 5), and listed in Table 3-2 of this Plan.~~

~~Waters designated for use as agricultural supply (AGR) shall not contain concentrations of chemical constituents in amounts which adversely affect such beneficial use.~~

Comparison Table of Select Constituents

Constituent	Basin Plan Table 3-2 ($\mu\text{g/L}$)	CCR Title 22 MCL ($\mu\text{g/L}$)	CTR SIP ($\mu\text{g/L}$)	Lowest value ($\mu\text{g/L}$)
Arsenic	50	50	340 - 150	50
Cadmium	10	5	2.83 - 1.8	1.8
Mercury	2	2	0.05 – 0.05 I	0.05

Proposed “Policy for the Application of Narrative Water Quality Objectives”

Add a new Policy to Basin Plan Chapter 4

1. Identify all beneficial uses of water that could be affected by discharge.
2. For each affected beneficial uses, identify all applicable narrative objectives for each constituent of concern.
3. Consider numeric limits for each constituent of concern from the established sources of water quality criteria.
4. Identify the narrative objective for which a numeric limit/level will be established that ensures protection to all affected beneficial uses.
5. For each constituent of concern select the numeric limit/level that will protect all affected beneficial uses.
6. Consider all applicable policies and regulations that could require further modification to the limits/levels.

Schedule for Development of the Proposed WQO Update Amendment

- Workshops: Santa Rosa - November 3, 2011
Weaverville - November 8, 2011
- Staff Report and proposed WQO Update Amendment:
Release early November 2011
- Public Comment Period:
Early Nov. to mid December 2011
- Workshop: Santa Rosa January 19, 2011
- Public Hearing: March 15, 2012

Contact Information

- Basin Planning Lyris List

(electronic list serve)

[http://www.waterboards.ca.gov/resources/
email_subscriptions/reg1_subscribe.shtml](http://www.waterboards.ca.gov/resources/email_subscriptions/reg1_subscribe.shtml)

- Website

[http://www.waterboards.ca.gov/northcoast/water_iss
ues/programs/basin_plan/water_quality_objective
s_update_amendment.shtml](http://www.waterboards.ca.gov/northcoast/water_issues/programs/basin_plan/water_quality_objectives_update_amendment.shtml)

- Staff Contact

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