

**NEVADA DEPARTMENT OF
CONSERVATION & NATURAL RESOURCES**

STATE ENVIRONMENTAL COMMISSION

HEARING ARCHIVES FOR

REGULATORY PETITIONS

COMMISSION PETITION NO. 96003

LEGISLATIVE COUNSEL BUREAU (LCB) FILE NO. R-127-95

DOCUMENTS INCLUDED IN THIS FILE:

YES SECRETARY OF STATE FILING FORM

YES DISCLOSURE STATEMENT PURSUANT TO NRS 233B

REGULATORY PETITIONS

ORIGINAL DRAFTED BY COMMISSION

ADOPTED BY COMMISSION

YES AS FILED AND CODIFIED BY LCB

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Nevada State Environmental Commission

Classification [] Proposed [] Adopted By Agency [xx] Temporary [] Emergency []

Brief description of action: **Petition 96003** permanently amends NAC 445A.202 to 445A.208, water quality standards for the Humboldt River. The petition amends or establishes beneficial use standards for suspended solids, nitrites, un-ionized ammonia, sulfate, escherichia coli and pH.

Authority citation other than 233B: NRS 445.201 and NRS 445.244

Notice date: October 6, October 12, and October 24, 1995

Hearing date: November 7, 1995

Date of Adoption of Agency: November 7, 1995

**FILING STATEMENT FOR ADOPTED REGULATIONS AS REQUIRED
BY ADMINISTRATIVE PROCEDURES ACT, NRS 233B.066
PETITION 96003
LCB FILE R-127-95**

The following statement is submitted for adopted permanent amendments to Nevada Administrative Code (NAC) 445A.

1. A description of how public comment was solicited, a summary of public response, and an explanation how other interested persons may obtain a copy of the summary.

Petition 96003 (R-127-95) was noticed three (3) times: October 6, October 12 and October 24, 1995 in the Las Vegas Review Journal, the Reno Gazette-Journal newspapers, the Humboldt Sun and the Elko Daily Free Press as a permanent regulation. In addition the Bureau of Water Quality Planning held two public workshops (Winnemucca and Elko). These workshops were publicly noticed in the Humboldt Sun and Elko Daily Free Press on April 7, 1995 and in the Reno Gazette-Journal on April 5, 1995. The Bureau also sent to the public the aforementioned notice on the workshops. Public response focused on the temperature portion of the regulation. The comments dealt with methods of taking water and ambient air temperature, the possible effect of wide swings of temperature upon fish and aquatic species and the impact of mixing zone provisions on temperature. The comments also focused on the applicability of temperature standards in no flow conditions and the application of temperature standards to ephemeral streams.. A copy of the written comments may be obtained by calling the Nevada State Environmental Commission (702) 687-4670, or writing to the Commission at 333 W. Nye Ln., Room 128, Carson City, Nevada 89710.

2. The number persons who:

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|--|--|
| (a) Attended each hearing; | 36 |
| (b) Testified at each hearing: | 7 |
| (c) Submitted to the agency written comments: | Comments were submitted by the U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, Nevada Mining Association, Commissioner Fred Gifford, Barrick Goldstrike Mine, Independence Mining Company and the Sierra Club. |

3. A description of how comment was solicited from affected businesses, a summary of their response, and an explanation of how other interested persons may obtain a copy of the summary.

Comments were solicited from affected businesses by the notices in the newspapers, as outlined in #1 and by direct mail to interested persons subscribing to the Commission's mailing list. In addition the Bureau of Water Quality Planning meet with the Nevada Mining Association's Water Resources Committee. Comments from interested businesses included the Nevada Mining Association, Barrick Gold Strike Mine and Independence Mining Co. The comments focused opposition on the beneficial use standard for the chemical pollutant sulfate and the applicability

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of absolute values in water temperature to conditions of no flow in the Humboldt River. Other concerns regarding water temperature focused on limits to the Imlay Segment and the protection of the walleye fish. Additionally comments were made about the validity of the sulfate standard proposed for the Humboldt River. Comments focused on whether to 250 mg/l standard for sulfate reflected current U.S. EPA standards being proposed. A copy of the written comments may be obtained by calling the Nevada State Environmental Commission (702) 687-4670 or writing to the Commission at 333 W. Nye Ln., Room 128, Carson City, Nevada 89710.

4. If the regulation was adopted without changing any part of the proposed regulation, a summary of the reasons for adopting the regulation without change.

The permanent regulation was adopted at the State Environmental Commission hearing on November 7, 1995 with changes to proposed amendments to temperature being deferred by the Commission. The petition was adopted without changes to the temperature standards for various reaches of the Humboldt River.

5. The estimated economic effect of the adopted regulation on the business which it is to regulate and on the public. These must be stated separately, and each case must include:

- (a) Both adverse and beneficial effects: and
- (b) Both immediate and long-term effects.
 - a. The adopted revisions are not expected to have an immediate economic effect on the regulated community; however, there may be a potential long term economic effect. The phosphorus standard could have a long-term beneficial effect on future surface water discharges of wastewater. The sulfate standards could adversely affect mining companies' dewatering operations along the Humboldt River, if future dewatering activities encounter sulfate laden water. Effluents high in sulfates could trigger the necessity for discharge limitations. Costs are unknown.
 - b. There is no estimated immediate economic effect on the public. The adopted phosphorus standard could have a beneficial long-term effect on the public since the cost of advanced wastewater treatment, which would be required without the adopted standards, is passed on to the customers. The farming communities on the lower reaches of the river could experience a beneficial economic effect from the adopted sulfate standard. Sulfate can lead to a higher build up of salts in agricultural fields. Maintaining the standards adopted for sulfates would result in higher agricultural productivity.

6. The estimated cost to the agency for enforcement of the adopted regulation.

There is no additional cost to the agency for enforcement of this regulation.

7. A description of any regulations of other state or government agencies which the proposed regulation overlaps or duplicates and a statement explaining why the duplication or overlapping is necessary. If the regulation overlaps or duplicates a federal regulation, the name of the regulating federal agency.

There are no other state or government agency regulations which the proposed amendments duplicate.

8. If the regulation includes provisions which are more stringent than a federal regulation which regulates the same activity, a summary of such provisions.

Code of Federal Regulations in sections 40 C.F.R. 131.10, 40 C.F.R. 131.11 and 40 C.F.R. 131.12 require the State to designate beneficial uses, adopt criteria to protect the uses and to adopt an antidegradation policy. There are no federally promulgated water quality standards for Nevada with the exception of toxic materials contained in 40 C.F.R. 131.36(d)(11) which is not a duplication of proposed action. Therefore, the proposed regulations are in compliance with Federal regulations and are not more stringent than Federal requirements and regulations.

9. If the regulation provides a new fee or increases an existing fee, the total annual amount the agency expects to collect and the manner in which the money will be used.

This regulation does not provide or involve a new fee. Since no fee is involved there is not a total amount expected to be collected or used.

**ADOPTED PERMANENT REGULATION OF THE
NEVADA STATE ENVIRONMENTAL COMMISSION**

LCB File No. R127-95

EXPLANATION: Matter in *italics* is new; matter in brackets [] is material to be omitted.

AUTHORITY: NRS 445.201 and NRS.244

Section 1. NAC 445A.203 is hereby amended to read as follows:

445A.203

STANDARDS OF WATER QUALITY
Humboldt River

Control Point near [Elko] Osino. The limits in this table apply from the control point near [Elko] Osino to the upstream source of the main stem.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C T-Single Value ^a	T = 0°C	T#2°C	Aquatic life (warm-water fishery) ^b , water contact recreation.
pH Units Standard Units	[A-Avg.:7.8-8.3 S.V.: 7.7-8.5] A-Avg.: 7.0-8.3 S.V.: 7.0-8.5	[S.V.: 7.0-9.0] S.V.: 6.5-9.0 pH:±0.5	Water contact recreation ^b , wildlife propagation ^b , aquatic life (warm-water fishery), irrigation, stock watering, municipal or domestic supply and industrial supply.
Dissolved Oxygen-mg/l	--	S.V.:\$5.0	Aquatic life (warm-water fishery) ^b , water contact recreation, wildlife propagation, stock watering, municipal or domestic supply and noncontact recreation.
Chlorides-mg/l	A-Avg.:#<22 S.V.: #25	S.V.:#250	Municipal or domestic supply ^b , wildlife propagation, irrigation and stock watering.
[Total Phosphates] Total Phosphorus (as P)-mg/l		[A-Avg.:#0.1] Apr.-Nov. Seasonal Avg.:#0.1	Aquatic life (warm-water fishery) ^b , bathing and water contact recreation, municipal or domestic supply and noncontact recreation.
[Nitrates (NO ₃) mg/l] Nitrogen species (N)-mg/l	[A-Avg.:#1.0 S.V.: #2.0] Total Nitrogen A-Avg.:#1.5 Apr.-Nov. S.V.:#2.4 (un-ionized)	[A-Avg.:#45] Nitrate S.V.:#10 Nitrite S.V.:#1.0 Ammonia S.V.:#0.02	Municipal or domestic supply ^b , wildlife propagation, irrigation, stock watering and aquatic life (warm-water fishery).
Total Dissolved Solids-mg/l	A-Avg.:#370 S.V.: #385	A-Avg.:#500	Municipal or domestic supply ^b , irrigation and stock watering.
Suspended Solids-mg/l		[S.V.:#80] Annual Median:#80 ^e	Aquatic life (warm-water fishery) ^b .
Sulfate-mg/l		S.V.:#250	Municipal or Domestic Supply
Color-PCU	d	No Adverse Effects	Municipal or domestic supply ^b .
Turbidity-NTU	[A-Avg.:#20]	S.V.:#50	Aquatic life (warm-water fishery) ^b , municipal or domestic supply.
Fecal Coliform No./100 ml	Annual Geometric Mean:[#100] #75 S.V.: #200	#200/400 ^c	Contact recreation ^b , noncontact recreation, municipal or domestic supply, irrigation, wildlife propagation and stock watering.
E Coli No./100 ml	Annual Geometric Mean:#126 S.V.:#406		Contact recreation^b, noncontact recreation, municipal or domestic supply, irrigation, wildlife propagation and stock watering.
Sodium-SAR		A-Avg.:#8	Irrigation ^b and municipal or domestic supply.

- a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone.
- b. The most restrictive beneficial use.
- c. Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.
- d. Increase in color must not be more than 10 PCU above natural conditions.
- e. **The maximum allowable point source discharge is S.V.# 80 mg/l of suspended solids.**

Sec. 2. NAC 445A.204 is hereby amended to read as follows:

445A.204

STANDARDS OF WATER QUALITY
Humboldt River

Control Point at the Palisade Gage. The limits in this table apply from the control point at Palisade Gage upstream to the [Elko] Osino control point.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C T-Single Value ^a	T = 0°C	T#2°C	Aquatic life (warm-water fishery) ^b , water contact recreation.
pH Units Standard Units	[A-Avg.:7.8-8.5 S.V.: 7.7-8.6] A-Avg.: 7.0-8.5 S.V.: 7.0-8.6	[S.V.:7.0-9.0] S.V.:6.5-9.0 pH:±0.5	Water contact recreation ^b , wildlife propagation ^b , aquatic life (warm-water fishery), irrigation, stock watering, municipal or domestic supply and industrial supply.
Dissolved Oxygen-mg/l		S.V.:\$5.0	Aquatic life (warm-water fishery) ^b , water contact recreation, wildlife propagation, stock watering, municipal or domestic supply and noncontact recreation.
Chlorides-mg/l	A-Avg.:#21 S.V.: #30	S.V.:#250	Municipal or domestic supply ^b , wildlife propagation, irrigation and stock watering.
[Total Phosphates] Total Phosphorus (as P)-mg/l	-- Apr.-Nov.	[A-Avg.:#0.1] Seasonal Avg.:#0.1	Aquatic life (warm-water fishery) ^b , bathing and water contact recreation, municipal or domestic supply and noncontact recreation.
[Nitrates (NO ₃) [mg/l] Nitrogen species (N)-mg/l	[A-Avg.:#1.0 S.V.: #1.5] Total Nitrogen A-Avg.:#1.4 Apr.-Nov. S.V.:#2.4	[A-Avg.:#45] Nitrate S.V.:#10 Nitrite S.V.:#1.0 Ammonia S.V.:#0.02 (un-ionized)	Municipal or domestic supply ^b , wildlife propagation, irrigation, stock watering and aquatic life (warm-water fishery).
Total Dissolved Solids-mg/l	A-Avg.:#350 S.V.: #400	A-Avg.:#500	Municipal or domestic supply ^b , irrigation and stock watering.
Suspended Solids-mg/l		[S.V.:#80] Annual Median:#80 ^e	Aquatic life (warm-water fishery) ^b .
Sulfate-mg/l		S.V.:#250	Municipal or Domestic Supply
Color-PCU	d	No Adverse Effects	Municipal or domestic supply ^b .
Turbidity-NTU	[A-Avg.:#20]	S.V.:#50	Aquatic life (warm-water fishery) ^b , municipal or domestic supply.
Fecal Coliform No./100 ml	Annual Geometric Mean:[#100] #20 S.V.:[#200] #150	#200/400 ^c	Contact recreation ^b , noncontact recreation, municipal or domestic supply, irrigation, wildlife propagation and stock watering.
E Coli Contact recreation ^b , noncontact recreation, No./100 ml	-- Annual Geometric Mean:#126 S.V.:#406		municipal or domestic supply, irrigation, wildlife propagation and stock watering.
Sodium-SAR		A-Avg.:#8	Irrigation ^b and municipal or domestic supply.

- a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone.
- b. The most restrictive beneficial use.
- c. Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.
- d. Increase in color must not be more than 10 PCU above natural conditions.
- e. The maximum allowable point source discharge is S.V. #80 mg/l of suspended solids.

Sec. 3. NAC 445A.205 is hereby amended to read as follows:

445A.205

STANDARDS OF WATER QUALITY
Humboldt River

Control Point at the Battle Mountain Gage. The limits in this table apply from the control point at Battle Mountain Gage upstream to the Palisade Gage control point.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C [T-Single Value ^a]	↑ T = 0°C	↑ T#2°C	Aquatic life (warm-water fishery) ^b , water contact recreation.
pH Units Standard Units	[A-Avg.:7.8-8.4] S.V.: 7.7-8.6 A-Avg.: 7.0-8.4 S.V.: 7.0-8.6	[S.V.:7.0-9.0] S.V.:6.5-9.0 pH:±0.5	Water contact recreation ^b , wildlife propagation ^b , aquatic life (warm-water fishery), irrigation, stock watering, municipal or domestic supply and industrial supply.
Dissolved Oxygen-mg/l		S.V.:5.0	Aquatic life (warm-water fishery) ^b , water contact recreation, wildlife propagation, stock watering, municipal or domestic supply and noncontact recreation.
Chlorides-mg/l	A-Avg.:#50 S.V.: #70	S.V.:#250	Municipal or domestic supply ^b , wildlife propagation, irrigation and stock watering.
[Total Phosphates] Total Phosphorus (as P)-mg/l	-- Apr.-Nov.	[A-Avg.:#0.1] Seasonal Avg.:#0.1	Aquatic life (warm-water fishery) ^b , bathing and water contact recreation, municipal or domestic supply and noncontact recreation.
[Nitrates (NO ₃) mg/l] Nitrogen species (N)-mg/l	[A-Avg.:#1.0 S.V.: #1.5] Total Nitrogen A-Avg.:#1.9 Apr.-Nov. S.V.:#4.0	[A-Avg.:45] Nitrate S.V.:#10 Nitrite S.V.:#1.0 Ammonia S.V.:#0.02 (un-ionized)	Municipal or domestic supply ^b , wildlife propagation, irrigation, stock watering and aquatic life (warm-water fishery).
Total Dissolved Solids-mg/l	A-Avg.:#425 S.V.: #520	A-Avg.:#500	Municipal or domestic supply ^b , irrigation and stock watering.
Suspended Solids-mg/l		[S.V.:#80] Annual Median:#80 ^e	Aquatic life (warm-water fishery) ^b .
Sulfate-mg/l		S.V.:#250	Municipal or Domestic Supply
Color-PCU	d	No Adverse Effects	Municipal or domestic supply ^b .
Turbidity-NTU	[A-Avg.:#25]	S.V.:#50	Aquatic life (warm-water fishery) ^b , municipal or domestic supply.
Fecal Coliform No./100 ml	Annual Geometric Mean:[#100] #50 S.V.: #200	#200/400 ^c	Contact recreation ^b , noncontact recreation, municipal or domestic supply, irrigation, wildlife propagation and stock watering.
<i>E Coli</i> No./100 ml	-- Annual Geometric Mean:#126 S.V.:#406		Contact recreation ^b , noncontact recreation, municipal or domestic supply, irrigation, wildlife propagation and stock watering.
Sodium-SAR		A-Avg.:#8	Irrigation ^b and municipal or domestic supply.

- a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone.
- b. The most restrictive beneficial use.
- c. Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.
- d. Increase in color must not be more than 10 PCU above natural conditions.
- e. The maximum allowable point source discharge is S.V.#80 mg/l of suspended solids.

Sec. 4. NAC 445A.206 is hereby amended to read as follows:

445A.206

STANDARDS OF WATER QUALITY
Humboldt River

Control Point [at the Comus Gage] where state highway 789 crosses the Humboldt River. The limits in this table apply from the control point [at Comus Gage] where state highway 789 crosses the Humboldt River upstream to the Battle Mountain control point.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C T-Single Value ^a	T = 0°C	T#2°C	Aquatic life (warm-water fishery) ^b , water contact recreation.
pH Units Standard Units	[A-Avg.:7.9-8.5 S.V.: 7.8-8.7 A-Avg.: 7.0-8.5 S.V.: 7.0-8.7	[S.V.: 7.0-9.0] S.V.:6.5-9.0 pH:±0.5	Water contact recreation ^b , wildlife propagation ^b , aquatic life (warm-water fishery), irrigation, stock watering, municipal or domestic supply and industrial supply.
Dissolved Oxygen-mg/l	--	S.V.:\$5.0	Aquatic life (warm-water fishery) ^b , water contact recreation, wildlife propagation, stock watering, municipal or domestic supply and noncontact recreation.
Chlorides-mg/l	A-Avg.:#60 S.V.: #110	S.V.:#250	Municipal or domestic supply ^b , wildlife propagation, irrigation and stock watering.
[Total Phosphates] Total Phosphorus (as P)-mg/l	--	[A-Avg.:#0.1] Apr.-Nov. Seasonal Avg.:#0.1	Aquatic life (warm-water fishery) ^b , bathing and water contact recreation, municipal or domestic supply and noncontact recreation.
[Nitrates (NO ₃) mg/l] Nitrogen species (N)-mg/l	[A-Avg.:#1.0 S.V.: #1.5] Total Nitrogen A-Avg.:#2.9 Apr.- Nov. S.V.:#3.7	[A-Avg.:#45] Nitrate S.V.:#10 Nitrite S.V.:#1.0 Ammonia S.V.:#0.02 (un-ionized)	Municipal or domestic supply ^b , wildlife propagation, irrigation, stock watering and aquatic life (warm-water fishery).
Total Dissolved Solids-mg/l	A-Avg.:#500 S.V.: #560	A-Avg.:#500	Municipal or domestic supply ^b , irrigation and stock watering.
Suspended Solids-mg/l		[S.V.:#80] Annual Median:#80 ^e	Aquatic life (warm-water fishery) ^b .
Sulfate-mg/l		S.V.:#250	Municipal or Domestic Supply
Color-PCU	d	No Adverse Effects	Municipal or domestic supply ^b .
Turbidity-NTU	[A-Avg.:#25]	S.V.:#50	Aquatic life (warm-water fishery) ^b , municipal or domestic supply.
Fecal Coliform No./100 ml	Annual Geometric Mean:[#100] #40 S.V.:[#200] #100	#200/400 ^c	Contact recreation ^b , noncontact recreation, municipal or domestic supply, irrigation, wildlife propagation and stock watering.
E Coli No./100 ml	-- Contact recreation ^b , noncontact recreation, Annual Geometric Mean:#126 S.V.:#406		municipal or domestic supply, irrigation, wildlife propagation and stock watering.
Sodium-SAR		A-Avg.:#8	Irrigation ^b and municipal or domestic supply.

- a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone.
- b. The most restrictive beneficial use.
- c. Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.
- d. Increase in color must not be more than 10 PCU above natural conditions.
- e. The maximum allowable point source discharge is S.V. #80 mg/l of suspended solids.

Sec. 5. NAC 445A.207 is hereby amended to read as follows:

445A.207

STANDARDS OF WATER QUALITY
Humboldt River

Control Point at Imlay. The limits in this table apply from the control point at Imlay upstream to the Comus Gage control point.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C T-Single Value ^a	T = 0°C	T#2°C	Aquatic life (warm-water fishery) ^b , water contact recreation.
pH Units Standard Units	[A-Avg.:7.8-8.5] S.V.: 7.8-8.7 A-Avg.: 7.0-8.5 S.V.: 7.0-8.7	[S.V.:7.0-9.0] S.V.:6.5-9.0 pH:±0.5	Water contact recreation ^b , wildlife propagation ^b , aquatic life (warm-water fishery), irrigation, stock watering, municipal or domestic supply and industrial supply.
Dissolved Oxygen-mg/l	--	S.V.:\$5.0	Aquatic life (warm-water fishery) ^b , water contact recreation, wildlife propagation, stock watering, municipal or domestic supply and noncontact recreation.
Chlorides-mg/l	A-Avg.:#70 S.V.: #85	S.V.:#250	Municipal or domestic supply ^b , wildlife propagation, irrigation and stock watering.
[Total Phosphates] Total Phosphorus (as P)-mg/l	-- Apr.-Nov. Seasonal Avg.:#0.1	[A-Avg.:#0.1] Seasonal Avg.:#0.1	Aquatic life (warm-water fishery) ^b , bathing and water contact recreation, municipal or domestic supply and noncontact recreation.
[Nitrates (NO ₃) mg/l] Nitrogen species (N)-mg/l	[A-Avg.:#1.0 S.V.: #1.5] Total Nitrogen A-Avg.:#2.4 Apr.- Nov.S.V.:#2.9	[A-Avg.:#45] Nitrate S.V.:#10 Nitrite S.V.:#1.0 Ammonia S.V.:#0.02 (un-ionized)	Municipal or domestic supply ^b , wildlife propagation, irrigation, stock watering and aquatic life (warm-water fishery).
Total Dissolved Solids-mg/l	S.V.:#590	A-Avg.:#500	Municipal or domestic supply ^b , irrigation and stock watering.
Suspended Solids-mg/l	--	[S.V.:#80] Annual Median :#80 ^e	Aquatic life (warm-water fishery) ^b .
Sulfate-mg/l	--	S.V.:#250	Municipal or Domestic Supply
Color-PCU	d	No Adverse Effects	Municipal or domestic supply ^b .
Turbidity-NTU	[A-Avg.:#30] --	S.V.:#50	Aquatic life (warm-water fishery) ^b , municipal or domestic supply.
Fecal Coliform No./100 ml	Annual Geometric Mean:[#100] #30 S.V.:[#200] #150	#200/400 ^c	Contact recreation ^b , noncontact recreation, municipal or domestic supply, irrigation, wildlife propagation and stock watering.
E Coli No./100 ml	-- Contact recreation ^b , noncontact recreation, Annual Geometric Mean:#126 S.V.:#406		municipal or domestic supply, irrigation, wildlife propagation and stock watering.
Sodium-SAR		A-Avg.:#8	Irrigation ^b and municipal or domestic supply.

- a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone.
- b. The most restrictive beneficial use.
- c. Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.
- d. Increase in color must not be more than 10 PCU above natural conditions.
- e. The maximum allowable point source discharge is S.V. #80 mg/l of suspended solids.

Sec. 6. NAC 445A.208 is hereby amended to read as follows:

445A.208

STANDARDS OF WATER QUALITY
Humboldt River

Control Point at Woolsey. The limits in this table apply from the control point at Woolsey upstream to the Imlay control point.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C T-Single Value ^a	T = 0°C	T#2°C	Aquatic life (warm-water fishery) ^b , water contact recreation.
pH Units Standard Units	[A-Avg.:7.8-8.9 S.V.: 7.5-9.0] A-Ave.: 7.0-8.9 S.V.: 7.0-9.0	[S.V.: 7.0-9.0] S.V.:6.5-9.0 pH:±0.5	Water contact recreation ^b , wildlife propagation ^b , aquatic life (warm-water fishery), irrigation, stock watering, municipal or domestic supply and industrial supply.
Dissolved Oxygen-mg/l	--	S.V.:\$5.0	Aquatic life (warm-water fishery) ^b , water contact recreation, wildlife propagation, stock watering, municipal or domestic supply and noncontact recreation.
Chlorides-mg/l	A-Avg.:#130 S.V.: #175	S.V.:#250	Municipal or domestic supply ^b , wildlife propagation, irrigation and stock watering.
[Total Phosphates] Total Phosphorus (as P)-mg/l	-- Apr.-Nov.	[A-Avg.:#0.1] Seasonal Avg.:#0.1	Aquatic life (warm-water fishery) ^b , bathing and water contact recreation, municipal or domestic supply and noncontact recreation.
[Nitrates (NO ₃) mg/l] Nitrogen species (N)-mg/l	[A-Avg.:#0.7 S.V.: #1.0]	[A-Avg.:#45] Nitrate S.V.:#10 Nitrite S.V.:#1.0 Ammonia S.V.:#0.02	Municipal or domestic supply ^b , wildlife propagation, irrigation, stock watering and aquatic life (warm-water fishery).
Total Dissolved Solids-mg/l	A-Avg.:#600 S.V.: #700	A-Avg.:#1000	Municipal or domestic supply ^b , irrigation and stock watering.
Suspended Solids-mg/l	--	[S.V.:<80] Annual Median:#80 ^c	Aquatic life (warm-water fishery) ^b .
Sulfate-mg/l	--	S.V.:#250	Municipal or Domestic Supply
Color-PCU	d	No Adverse Effects	Municipal or domestic supply ^b .
Turbidity-NTU	[A-Avg.:#20 S.V.: #30]	S.V.:#50	Aquatic life (warm-water fishery) ^b , municipal or domestic supply.
Fecal Coliform No./100 ml	Annual Geometric Mean:#100 S.V.:#200	#200/400 ^c	Contact recreation ^b , noncontact recreation, municipal or domestic supply, irrigation, wildlife propagation and stock watering.
E Coli No./100 ml	-- Contact recreation ^b , noncontact recreation, Annual Geometric Mean:#126 S.V.:#406		municipal or domestic supply, irrigation, wildlife propagation and stock watering.
Sodium-SAR		A-Avg.:#8	Irrigation ^b and municipal or domestic supply.

- a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone.
- b. The most restrictive beneficial use.
- c. Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.
- d. Increase in color must not be more than 10 PCU above natural conditions.
- e. The maximum allowable point source discharge is S.V. #80 mg/l of suspended solids.

END OF PETITION 95003 (LCB File No. R127-95)