

**PROPOSED REGULATION OF THE  
STATE ENVIRONMENTAL COMMISSION**

**LCB File No. R128-01**

November 6, 2001

EXPLANATION – Matter in *italics* is new; matter in brackets ~~omitted material~~ is material to be omitted.

AUTHORITY: §§1-12, NRS 445A.425 and 445A.520.

**Section 1.** Chapter 445A of NAC is hereby amended by adding thereto a new section to read as follows:

***STANDARDS OF WATER QUALITY***

***East Walker River at Bridge B-1475***

***Control Point at the East Walker River at Bridge B-1475. The limits of this table apply only from the East Walker River at Bridge B-1475 to the East Walker River at the state line.***

<i>PARAMETER</i>	<i>REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY</i>	<i>WATER QUALITY STANDARDS FOR BENEFICIAL USES</i>	<i>BENEFICIAL USES As designated in NAC 445A.159 (Most stringent use listed first)</i>
<i>Temperature Single Value</i>	$\Delta T = 0 \text{ }^{\circ}\text{C}$	<i>Nov.-Apr.: <math>\leq 13 \text{ }^{\circ}\text{C}</math> May-Jun.: <math>\leq 17 \text{ }^{\circ}\text{C}</math> Jul.-Oct.: <math>\leq 23 \text{ }^{\circ}\text{C}</math> <math>\Delta T \leq 2 \text{ }^{\circ}\text{C}</math></i>	<i>Propagation of aquatic life and recreation involving contact with the water.</i>
<i>pH Single Value</i>	--	<i>Within range 6.5 - 9.0 SU <math>\Delta\text{pH}: \pm 0.5 \text{ SU Max.}</math></i>	<i>Propagation of aquatic life, recreation involving contact with the water, propagation of wildlife, irrigation, watering of livestock, municipal or domestic supply, or both, and industrial supply.</i>
<i>Total Phosphates (as P) Annual Average</i>	--	$\leq 0.10 \text{ mg/l}$	<i>Propagation of aquatic life, recreation involving contact with the water, municipal or domestic supply, or both, and recreation not involving contact with the water.</i>
<i>Nitrogen Species (as N) Annual Average Single Value Single Value</i>	<i>Total Nitrogen <math>\leq 0.9 \text{ mg/l}</math> <math>\leq 1.7 \text{ mg/l}</math></i>	<i>Nitrate: <math>\leq 10 \text{ mg/l}</math> Nitrite: <math>\leq 0.06 \text{ mg/l}</math></i>	<i>Municipal or domestic supply, or both, propagation of aquatic life, recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water.</i>

<i>Single Value</i>		<i>Ammonia: ≤.02 mg/l (un-ionized)</i>	
<i>Dissolved Oxygen Single Value</i>	--	<i>Nov.-May: ≥6.0 mg/l June-Oct.: ≥5.0 mg/l</i>	<i>Propagation of aquatic life, recreation involving contact with the water, propagation of wildlife, watering of livestock, municipal or domestic supply, or both, and recreation not involving contact with the water.</i>
<i>Suspended Solids Single Value</i>	--	<i>≤80 mg/l</i>	<i>Propagation of aquatic life.</i>
<i>Turbidity Single Value</i>	--	<i>b</i>	<i>Propagation of aquatic life and municipal or domestic supply, or both.</i>
<i>Color Single Value</i>	--	<i>≤75 PCU</i>	<i>Municipal or domestic supply, or both, and propagation of aquatic life.</i>
<i>Total Dissolved Solids Annual Average Single Value</i>	<i>≤320 mg/l ≤390 mg/l</i>	<i>≤500 mg/l</i>	<i>Municipal or domestic supply, or both, irrigation and watering of livestock.</i>
<i>Chloride Annual Average Single Value</i>	<i>≤13 mg/l ≤19 mg/l</i>	<i>≤250 mg/l</i>	<i>Municipal or domestic supply, or both, propagation of wildlife, irrigation and watering of livestock.</i>
<i>Sulfate Single Value</i>	--	<i>≤250 mg/l</i>	<i>Municipal or domestic supply, or both.</i>
<i>Sodium Adsorption Ratio Annual Average</i>	--	<i>≤8</i>	<i>Irrigation and municipal or domestic supply, or both.</i>
<i>Alkalinity (as CaCO<sub>3</sub>)</i>	--	<i>less than 25% change from natural conditions</i>	<i>Propagation of aquatic life and propagation of wildlife.</i>
<i>Escherichia coli Annual Geometric Mean Single Value</i>	-- --	<i>126 MF/100 ml 235 MF/100 ml</i>	<i>Recreation involving contact with the water, recreation not involving contact with the water, municipal or domestic supply, or both, irrigation and watering of livestock.</i>

*a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.*

*b. Increase in turbidity must not be more than 10 NTU above natural conditions.*

**Sec. 2.** NAC 445A.159 is hereby amended to read as follows:

445A.159 The standards of water quality for the Walker River from Walker Lake to the state line are prescribed in NAC 445A.160 to 445A.169, inclusive ~~[ ]~~, *and section 1 of this regulation.* The beneficial uses for this area are:

1. Irrigation;
2. Watering of livestock;

3. Recreation involving contact with the water;
4. Recreation not involving contact with *the* water;
5. Industrial supply;
6. Municipal or domestic supply, or both;
7. Propagation of wildlife; and
8. Propagation of aquatic life, and more specifically, the species of major concern are:
  - (a) In the West Walker River at the state line, *mountain whitefish*, rainbow trout and brown trout;
  - (b) In Topaz Lake, rainbow trout, cutthroat trout, brown trout, kokone salmon and silver salmon;
  - (c) In the West Walker River from Wellington to the state line, *mountain whitefish*, rainbow trout and brown trout;
  - (d) In the West Walker River from its confluence with the East Walker River to Wellington, brown trout and rainbow trout;
  - (e) In Sweetwater Creek, *mountain whitefish*, brown trout, brook trout and rainbow trout;
  - (f) In the East Walker River at the state line, mountain ~~[white fish,]~~ *whitefish*, rainbow trout and brown trout;
  - (g) *In the East Walker River from Bridge B-1475 to the state line, mountain whitefish, rainbow trout and brown trout;*
  - (h) In the East Walker River from its confluence with the West Walker River to ~~[the state line,]~~ *Bridge B-1475*, brown trout and rainbow trout;
  - ~~[(h)]~~ (i) In the Walker River from Weber Reservoir to the confluence of the East Walker River and West Walker River, channel catfish and largemouth bass;

~~(j)~~ In the Walker River from the inlet to Walker Lake to Weber Reservoir, channel catfish, largemouth bass ~~and, from February through June when an adequate flow exists,~~ adult Lahontan cutthroat trout ~~from April through May,~~ and adult rainbow ~~trout from April through June; and~~  
~~(j) trout; and~~

(k) In Desert Creek, brown trout, brook trout and rainbow trout.

Sec. 3. NAC 445A.160 is hereby amended to read as follows:

445A.160

### STANDARDS OF WATER QUALITY

#### West Walker River

Control Point at the West Walker River at the state line. The limits of this table apply only to the West Walker River at the state line.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES <i>As designated in NAC 445A.159 (Most stringent use listed first)</i>
Temperature <del>°C</del> <del>Maximum</del> <del>ΔTα</del> <i>Single Value</i>	July-Oct.: ≤22°C  ΔT = <del>10°C</del> 0 °Ca	Nov.-Apr.: ≤13°C May-Jun.: ≤17°C Jul.-Oct.: ≤23°C ΔT <del>≤2°C</del> ≤ °Ca	<del>[Aquatic lifeb and water contact recreation.]</del> <i>Propagation of aquatic life and recreation involving contact with the water.</i>
pH <del>[Units]</del> <i>Single Value</i>	--	<del>[S.V.: 7.0–8.3]</del> <i>Within range 6.5 - 9.0 SU</i> ΔpH: ±0.5 SU Max.	<del>[Water contact recreationb, wildlife propagationb.]</del> <i>Propagation of aquatic life, recreation involving contact with the water, propagation of wildlife, irrigation, <del>stock watering,</del> watering of livestock, municipal or domestic supply, or both, and industrial supply.</i>
Total Phosphates (as P) <del>[mg/l]</del> <i>Annual Average</i>	-- --	<del>[A-Avg:]</del> ≤0.1 mg/l	<del>[Aquatic lifeb, water contact recreationb.]</del> <i>Propagation of aquatic life, recreation involving contact with the water, municipal or domestic supply, or both, and <del>noncontact recreation.]</del> recreation not involving contact with the water.</i>
Nitrogen Species <del>[(N)–mg/l] (as N)</del> <i>Annual Average Single Value Single Value Single Value</i>	Total Nitrogen <del>[A-Avg.: ≤0.6 –S.V.: ≤0.9]</del> ≤0.6 mg/l ≤0.9 mg/l	Nitrate : <del>[S.V.:]</del> ≤10 mg/l Nitrite : <del>[S.V.:]</del> ≤0.06 mg/l Ammonia : <del>[S.V.:]</del> ≤0.02 mg/l (un-ionized)	Municipal or domestic <del>[supplyb, aquatic lifeb water contact recreation, stock watering, wildlife propagation and noncontact recreation.]</del> <i>supply, or both, propagation of aquatic life, recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water.</i>
Dissolved	--	<del>[S.V.: Nov.-Apr.: ≥6.0]</del>	<del>[Aquatic lifeb, water contact recreation, wildlife propagation, stock watering.]</del> <i>Propagation of aquatic</i>

Oxygen <del>{-mg/l}</del> Single Value	--	<del>May-Oct.: ≥5.0</del> Nov.-May: ≥6.0 mg/l Jun.-Oct: ≥5.0 mg/l	<del>life, recreation involving contact with the water, propagation of wildlife, watering of livestock, municipal or domestic supply, or both, and noncontact recreation.</del> recreation not involving contact with the water.
Suspended Solids <del>{-mg/l}</del> Annual Average Single Value	<del>{A-Avg.:} ≤60 mg/l</del>	<del>{S.V.:} ≤80 mg/l</del>	<del>{Aquatic lifeb.}</del> Propagation of aquatic life.
Turbidity <del>{-NTU}</del> Single Value	--	<del>{d} b</del>	<del>{Aquatic Lifeb.}</del> Propagation of aquatic life and municipal or domestic supply <del>{-}</del> , or both.
Color <del>{-PCU}</del> Single Value	<del>{-}</del> ≤6 PCU	<del>{e}</del> ≤75 PCU	<del>{Aquatic lifeb and municipal}</del> Municipal or domestic supply <del>{-}</del> , or both, and propagation of aquatic life.
Total Dissolved Solids <del>{-mg/l}</del> Annual Average Single Value	<del>{A-Avg.:} ≤165</del> <del>S.V.: ≤220</del> ≤165 mg/l ≥20 mg/l	<del>{A-Avg.:}</del> ≤500 mg/l	Municipal or domestic <del>{supplyb.}</del> supply, or both, irrigation and <del>{stock watering.}</del> watering of livestock.
<del>{Chlorides -mg/l}</del> Chloride Annual Average Single Value	<del>{A-Avg.:} ≤15</del> <del>S.V.: ≤20</del> ≤15 mg/l ≥20 mg/l	<del>{S.V.:} ≤250 mg/l</del>	Municipal or domestic <del>{supplyb, wildlife propagation.}</del> supply, or both, propagation of wildlife, irrigation and <del>{stock watering.}</del> watering of livestock.
Sulfate <del>{-mg/l}</del> Single Value	<del>{-}</del> ≤25 mg/l	<del>{S.V.:}</del> ≤250 mg/l	Municipal or domestic <del>{supplyb.}</del> supply, or both.
Sodium <del>{-SAR}</del> Adsorption Ratio Annual Average	--	<del>{A-Avg.:}</del> ≤8	<del>{Irrigationb}</del> Irrigation and municipal or domestic supply <del>{-}</del> , or both.
Alkalinity (as CaCO <sub>3</sub> ) <del>{-mg/l}</del>	--	less than 25% change from natural conditions	<del>{Aquatic lifeb and wildlife propagation.}</del> Propagation of aquatic life and propagation of wildlife.
<del>{Fecal Coliform- No./100 ml}</del> Escherichia coli Annual Geometric Mean Single Value	<del>{A.G.M.:} ≤100</del>  -- --	<del>{≤200/400e}</del>  126 MF/100 ml 235 MF/100 ml	<del>{Water contact recreationb, noncontact recreation.}</del> Recreation involving contact with the water, recreation not involving contact with the water, municipal or domestic supply, or both, irrigation <del>{-wildlife propagation and stock watering.}</del> and watering of livestock.

a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

b. ~~{The most restrictive beneficial use.}~~

c. ~~Increase in color must not be more than 10 PCU above natural conditions.~~

d. ~~Increase in turbidity must not be more than 10 NTU above natural conditions.~~

~~{e. 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.}~~

Sec. 4. NAC 445A.161 is hereby amended to read as follows:

## STANDARDS OF WATER QUALITY

## Topaz Lake

Control Point at Topaz Lake. The limits of this table apply at various points in Topaz Lake.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES <i>As designated in NAC 445A.159 (Most stringent use listed first)</i>
Temperature [ <del>°C</del> ] <del>Maximum</del> <del>ΔT<sub>a</sub></del> <i>Single Value</i>	ΔT = [ <del>0°C</del> ] 0 °C <sub>a</sub>	Nov.-Apr.: ≤13°C May-Jun.: ≤17°C Jul.-Oct.: ≤23°C ΔT [ <del>≤2°C</del> ] ≤ 2 °C <sub>a</sub>	<del>[Aquatic life and water contact recreation.]</del> <i>Propagation of aquatic life and recreation involving contact with the water.</i>
pH [Units] <i>Single Value</i>	--	<del>[S.V.: 7.0–8.3]</del> <i>Within range</i> 6.5–9.0 SU ΔpH: ±0.5 SU Max.	<del>[Water contact recreation, wildlife propagation.]</del> <i>Propagation of aquatic life, recreation involving contact with the water, propagation of wildlife, irrigation, [stock watering.] watering of livestock, municipal or domestic supply, or both, and industrial supply.</i>
Total Phosphates (as P) [ <del>mg/l</del> ] <i>Annual Average</i> <i>Single Value</i>	-- --	<del>[A-Avg.: ≤0.05</del> <del>S.V.: ≤0.10]</del> ≤0.05 mg/l ≤0.10 mg/l	<del>[Aquatic life, water contact recreation.]</del> <i>Propagation of aquatic life, recreation involving contact with the water, municipal or domestic supply, or both, and [noncontact recreation.] recreation not involving contact with the water.</i>
Nitrogen Species [ <del>(N)–mg/l</del> ] (as N) <i>Annual Average</i> <i>Single Value</i> <i>Single Value</i>	Total Nitrogen <del>[A-Avg.: ≤0.6</del> <del>S.V.: ≤1.0]</del> ≤0.6 mg/l ≤1.0 mg/l	Nitrate : [ <del>S.V.:</del> ] ≤10 mg/l Nitrite : [ <del>S.V.:</del> ] ≤0.6 mg/l Ammonia : [ <del>S.V.:</del> ] ≤0.02 mg/l (un-ionized)	Municipal or domestic <del>[supply, aquatic life, water contact recreation, stock watering, wildlife propagation and noncontact recreation.]</del> <i>supply, or both, propagation of aquatic life, recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water.</i>
Dissolved Oxygen [ <del>mg/l</del> ] <i>Single Value</i>	-- --	<del>[S.V.:</del> Nov. Apr.: ≥6.0 <del>May-Oct.: ≥5.0]</del> Nov.-May: ≥6.0 mg/l June-Oct.: ≥5.0 mg/l	<del>[Aquatic life, water contact recreation, wildlife propagation, stock watering.]</del> <i>Propagation of aquatic life, recreation involving contact with the water, propagation of wildlife, watering of livestock municipal or domestic supply, or both, and [noncontact recreation.] recreation not involving contact with the water.</i>
Suspended Solids [ <del>mg/l</del> ] <i>Annual Average</i> <i>Single Value</i>	<del>[A-Avg.: ≤6.0</del> <del>S.V.: ≤9.0]</del> ≤0.6 mg/l ≤9.0 mg/l	<del>[S.V.:</del> ≤25 mg/l	<del>[Aquatic life.]</del> <i>Propagation of aquatic life.</i>
Turbidity [ <del>NTU</del> ] <i>Annual Average</i> <i>Single Value</i>	<del>[A-Avg.: ≤3.0</del> <del>S.V.: ≤5.0]</del> ≤3.0 NTU ≤5.0 NTU	<del>[d] c</del>	<del>[Aquatic life.]</del> <i>Propagation of aquatic life and municipal or domestic supply [ ], or both.</i>
Color [ <del>PCU</del> ] <i>Single Value</i>	<del>[ ]</del> ≤1 PCU	<del>[e]</del> ≤5 PCU	<del>[Aquatic life and municipal.]</del> <i>Municipal or domestic supply [ ], or both, and propagation of aquatic life.</i>
Total Dissolved Solids [ <del>mg/l</del> ]	<del>[A-Avg.: ≤105</del> <del>S.V.: ≤120]</del>	<del>[A-Avg.:</del>	Municipal or domestic <del>[supply, ]</del> , <i>or both, irrigation and [stock watering.] watering of livestock.</i>

Annual Average Single Value	≤105 mg/l ≤120 mg/l	≤500 mg/l	
<del>{Chlorides—mg/l}</del> Chloride Annual Average Single Value	<del>{A.Avg.: ≤7 —S.V.: ≤10}</del> ≤7 mg/l ≤10 mg/l	-- <del>{S.V.:}</del> ≤250 mg/l	Municipal or domestic <del>{supply, wildlife propagation,}</del> supply, or both, propagation of wildlife, irrigation and <del>{stock-watering,}</del> watering of livestock.
Sulfate <del>{—mg/l}</del> Single Value	≤25 mg/l	<del>{S.V.:}</del> ≤250 mg/l	Municipal or domestic <del>{supply,}</del> supply, or both.
Sodium <del>{—SAR}</del> Adsorption Ratio Annual Average	--	<del>{A.Avg.:}</del> ≤8	<del>{Irrigation}</del> Irrigation, and municipal or domestic supply <del>{,}</del> , or both.
Alkalinity (as CaCO <sub>3</sub> ) <del>{—mg/l}</del>	--	less than 25% change from natural conditions	<del>{Aquatic life and wildlife propagation,}</del> Propagation of aquatic life and propagation of wildlife.
<del>{Fecal Coliform- No./100 ml}</del> Escherichia coli Annual Geometric Mean Single Value	<del>{A.G.M.: ≤25 —S.V.: ≤100}</del> -- --	<del>{≤200/400e}</del>  126 MF/100 ml 235 MF/100 ml	<del>{Water contact recreation, noncontact recreation,}</del> Recreation involving contact with the water, recreation not involving contact with the water, municipal or domestic supply, or both, irrigation <del>{, wildlife propagation and stock-watering,}</del> and watering of livestock.

a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

b. ~~{The most restrictive beneficial use.}~~

c. ~~Increase in color must not be more than 10 PCU above natural conditions.~~

d. ~~The dissolved oxygen standard from June to October applies only to the epilimnion.~~

e. Increase in turbidity must not be more than 10 NTU above natural conditions.

~~{e. 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.}~~

Sec. 5. NAC 445A.162 is hereby amended to read as follows:

445A.162

## STANDARDS OF WATER QUALITY

### West Walker River

Control Point at the West Walker River near Wellington. The limits of this table apply from the West Walker River near Wellington to the West Walker River at the state line.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES <i>As designated in NAC 445A.159 (Most stringent use listed first)</i>
Temperature [ <del>°C</del> <del>Maximum</del> <del>ΔT<sub>a</sub></del> ] <i>Single Value</i>	ΔT = [ <del>0°C</del> ] 0 °Ca	Nov.-Apr.: ≤13°C May-Jun.: ≤17°C Jul.-Oct.: ≤23°C ΔT [ <del>≤2°C</del> ] ≤ °Ca	<del>[Aquatic life and water contact recreation.]</del> <i>Propagation of aquatic life and recreation involving contact with the water.</i>
pH [Units] <i>Single Value</i>	-- --	[S.V.: 7.0–8.3] <i>Within range</i> 6.5 - 9.0 SU ΔpH: ±0.5 SU Max.	<del>[Water contact recreation, wildlife propagation.]</del> <i>Propagation of aquatic life, recreation involving contact with the water, propagation of wildlife, irrigation, [stock watering.] watering of livestock, municipal or domestic supply, or both, and industrial supply.</i>
Total Phosphates (as P) [ <del>mg/l</del> ] <i>Annual Average</i> <i>Single Value</i>	[A-Avg.: ≤0.07 S.V.: ≤0.10] ≤0.07 mg/l ≤0.10 mg/l	[A-Avg.:] ≤0.1 mg/l	<del>[Aquatic life, water contact recreation.]</del> <i>Propagation of aquatic life, recreation involving contact with the water, municipal or domestic supply, or both, and [noncontact recreation.] recreation not involving contact with the water.</i>
Nitrogen Species [ <del>(N)–mg/l</del> ] (as N) <i>Annual Average</i> <i>Single Value</i> <i>Single Value</i>	Total Nitrogen [A-Avg.: ≤0.6 S.V.: ≤1.0] ≤0.6 mg/l ≤1.0 mg/l	Nitrate : [S.V.:] ≤10 mg/l Nitrite : [S.V.:] ≤0.6 mg/l Ammonia : [S.V.:] ≤0.2 mg/l (un-ionized)	Municipal or domestic <del>[supply, aquatic life, water contact recreation, stock watering, wildlife propagation and noncontact recreation.]</del> <i>supply, or both, propagation of aquatic life, recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water.</i>
Dissolved Oxygen [ <del>mg/l</del> ] <i>Single Value</i>	-- --	[S.V.:] Nov.-May: ≥6.0 mg/l Jun.-Oct.: ≥5.0 mg/l	<del>[Aquatic life, water contact recreation, wildlife propagation, stock watering.]</del> <i>Propagation of aquatic life, recreation involving contact with the water, propagation of wildlife, watering of livestock, municipal or domestic supply, or both, and [noncontact recreation.] recreation not involving contact with the water.</i>
Suspended Solids [ <del>mg/l</del> ] <i>Single Value</i>	--	[S.V.:] ≤80 mg/l	<del>[Aquatic life.]</del> <i>Propagation of aquatic life.</i>
Turbidity [ <del>NTU</del> ] <i>Single Value</i>	--	[d] b	<del>[Aquatic life.]</del> <i>Propagation of aquatic life and municipal or domestic supply [f], or both.</i>
Color [ <del>PCU</del> ] <i>Single Value</i>	--	[e] ≤75 PCU	<del>[Aquatic life and municipal.]</del> <i>Municipal or domestic supply [f], or both, and propagation of aquatic life.</i>
Total Dissolved Solids [ <del>mg/l</del> ] <i>Annual Average</i> <i>Single Value</i>	[A-Avg.: ≤175 S.V.: ≤260] ≤175 mg/l ≤260 mg/l	[A-Avg.:] ≤500 mg/l	Municipal or domestic <del>[supply.]</del> <i>supply, or both, irrigation and [stock watering.] watering of livestock.</i>
[ <del>Chlorides–mg/l</del> ] <i>Chloride</i> <i>Annual Average</i> <i>Single Value</i>	[A-Avg.: ≤16 S.V.: ≤30] ≤16 mg/l ≤30 mg/l	-- [S.V.:] ≤250 mg/l	Municipal or domestic <del>[supply, wildlife propagation.]</del> <i>supply, or both, propagation of wildlife, irrigation and [stock watering.] watering of livestock.</i>
Sulfate [ <del>mg/l</del> ] <i>Single Value</i>	--	[S.V.:] ≤250 mg/l	Municipal or domestic <del>[supply.]</del> <i>supply, or both.</i>
Sodium [ <del>SAR</del> ] <i>Adsorption Ratio</i> <i>Annual Average</i>	--	[A-Avg.:] ≤8	<del>[Irrigation.]</del> <i>Irrigation, and municipal or domestic supply [f], or both.</i>
Alkalinity (as CaCO <sub>3</sub> ) [ <del>mg/l</del> ]	--	less than 25% change from natural conditions	<del>[Aquatic life and wildlife propagation.]</del> <i>Propagation of aquatic life and propagation of wildlife.</i>
[ <del>Fecal Coliform–No./100 ml</del> ] <i>Escherichia coli</i> <i>Annual Geometric</i>	[A.G.M.: ≤50 —S.V.: ≤150] --	[≤200/400e]	<del>[Water contact recreation, noncontact recreation.]</del> <i>Recreation involving contact with the water, recreation not involving contact with the water, municipal or domestic supply, or both, irrigation [wildlife]</i>



<i>Mean Single Value</i>	--	<i>126 MF/100 ml 235 MF/100 ml</i>	<del>propagation and stock watering.] and watering of livestock.</del>
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- a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.
- b. ~~[The most restrictive beneficial use.~~
- c. ~~Increase in color must not be more than 10 PCU above natural conditions.~~
- d.] Increase in turbidity must not be more than 10 NTU above natural conditions.
- ~~[e. 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.]~~

**Sec. 6.** NAC 445A.163 is hereby amended to read as follows:

445A.163

### STANDARDS OF WATER QUALITY

#### West Walker River

Control Point at the West Walker River above the confluence with the East Walker River at Nordyke Road. The limits of this table apply to the West Walker River above its confluence with the East Walker River to the control point mentioned in NAC 445A.162 (near Wellington).

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES <i>As designated in NAC 445A.159 (Most stringent use listed first)</i>
Temperature <del>°C</del> <del>Maximum</del> <del>ΔT<sub>a</sub></del> <i>Single Value</i>	ΔT = <del>[0°C]</del> 0 °C <sub>a</sub>	Nov.-Apr.: ≤13°C May-Jun.: ≤17°C Jul.-Oct.: ≤23°C  ΔT <del>[≤2°C]</del> ≤ 2 °C <sub>a</sub>	<del>[Aquatic life and water contact recreation.]</del> <i>Propagation of aquatic life and recreation involving contact with the water.</i>

pH <del>{Units}</del> <i>Single Value</i>	--	<del>{S.V.: 7.0–8.3}</del> Within range 6.5 - 9.0 SU ΔpH: ±0.5 SU Max.	<del>{Water contact recreation, wildlife propagation,}</del> Propagation of aquatic life, recreation involving contact with the water, propagation of wildlife, irrigation, <del>{stock watering,}</del> watering of livestock, municipal or domestic supply, or both, and industrial supply.
Total Phosphates (as P) <del>{mg/l}</del> <i>Annual Average Single Value</i>	<del>{S.V.}</del> ≤0.15 mg/l	<del>{A-Avg.}</del> ≤0.10 mg/l	<del>{Aquatic life, water contact recreation,}</del> Propagation of aquatic life, recreation involving contact with the water, municipal or domestic supply, or both, and <del>{noncontact recreation,}</del> recreation not involving contact with the water.
Nitrogen Species <del>{(N) mg/l}</del> (as N) <i>Annual Average Single Value Single Value Single Value</i>	Total Nitrogen <del>{A-Avg.: ≤1.0}</del> <del>{S.V.: ≤1.2}</del> ≤1.0 mg/l ≤1.2 mg/l	Nitrate: <del>{S.V.}</del> ≤10 mg/l Nitrite: <del>{S.V.}</del> ≤0.06 mg/l Ammonia: <del>{S.V.}</del> ≤0.02 mg/l (un-ionized)	Municipal or domestic <del>{supply, aquatic life, water contact recreation, stock watering, wildlife propagation and noncontact recreation,}</del> supply, or both, propagation of aquatic life, recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water.
Dissolved Oxygen <del>{mg/l}</del> <i>Single Value</i>	-- --	<del>{S.V.}</del> Nov.-May: ≥6.0 mg/l Jun.-Oct.: ≥5.0 mg/l	<del>{Aquatic life, water contact recreation, wildlife propagation, stock watering,}</del> Propagation of aquatic life, recreation involving contact with the water, propagation of wildlife, watering of livestock, municipal or domestic supply, or both, and <del>{noncontact recreation,}</del> recreation not involving contact with the water.
Suspended Solids <del>{mg/l}</del> <i>Single Value</i>	--	<del>{S.V.}</del> ≤80 mg/l	<del>{Aquatic life,}</del> Propagation of aquatic life.
Turbidity <del>{NTU}</del> <i>Single Value</i>	--	<del>{d}</del> b	<del>{Aquatic life,}</del> Propagation of aquatic life and municipal or domestic supply <del>{,}</del> , or both.
Color <del>{PCU}</del> <i>Single Value</i>	<del>{}</del> ≤46 PCU	<del>{e}</del> ≤75 PCU	<del>{Aquatic life and municipal,}</del> Municipal or domestic supply <del>{,}</del> , or both, and propagation of aquatic life.
Total Dissolved Solids <del>{mg/l}</del> <i>Annual Average Single Value</i>	<del>{A-Avg.: ≤330}</del> <del>{S.V.: ≤425}</del> ≤330 mg/l ≤425 mg/l	<del>{A-Avg.}</del> ≤500 mg/l	Municipal or domestic <del>{supply,}</del> supply, or both, irrigation and <del>{stock watering,}</del> watering of livestock.
<del>{Chlorides mg/l}</del> Chloride <i>Annual Average Single Value</i>	<del>{A-Avg.: ≤22}</del> <del>{S.V.: ≤28}</del> ≤22 mg/l ≤28 mg/l	-- <del>{S.V.}</del> ≤250 mg/l	Municipal or domestic <del>{supply, wildlife propagation,}</del> supply, or both, propagation of wildlife, irrigation and <del>{stock watering,}</del> watering of livestock.
Sulfate <del>{mg/l}</del> <i>Single Value</i>	<del>{}</del> ≤74 mg/l	<del>{S.V.}</del> ≤250 mg/l	Municipal or domestic <del>{supply,}</del> supply, or both.
Sodium <del>{SAR}</del> Adsorption Ratio <i>Annual Average</i>	--	<del>{A-Avg.}</del> ≤8	<del>{Irrigation,}</del> Irrigation and municipal or domestic supply <del>{,}</del> , or both.
Alkalinity (as CaCO <sub>3</sub> ) <del>{mg/l}</del>	--	less than 25% change from natural conditions	<del>{Aquatic life and wildlife propagation,}</del> Propagation of aquatic life and propagation of wildlife.
<del>{Fecal Coliform No./100 ml}</del> Escherichia coli <i>Annual Geometric Mean Single Value</i>	<del>{A.G.M.: ≤125}</del> <del>{S.V.: ≤350}</del> -- --	<del>{≤200/400e}</del>  126 MF/100 ml 235 MF/100 ml	<del>{Water contact recreation, noncontact recreation,}</del> Recreation involving contact with the water, recreation not involving contact with the water, municipal or domestic supply, or both, irrigation <del>{, wildlife propagation and stock watering,}</del> and watering of livestock.

- a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.
- b. ~~{The most restrictive beneficial use.}~~

~~e. Increase in color must not be more than 10 PCU above natural conditions.~~

~~d.] Increase in turbidity must not be more than 10 NTU above natural conditions.~~

~~[e. 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.]~~

Sec. 7. NAC 445A.164 is hereby amended to read as follows:

445A.164

## STANDARDS OF WATER QUALITY

### Sweetwater Creek

Control Point at Sweetwater Creek. The limits of this table apply to Sweetwater Creek from its confluence with the East Walker River to the state line.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES <i>As designated in NAC 445A.159 (Most stringent use listed first)</i>
Temperature <del>[°C- Maximum ΔTα]</del> <i>Single Value</i>	ΔT = <del>[0°C] 0 °Ca</del>	Nov.-Apr.: ≤13°C May-Jun.: ≤17°C Jul.-Oct.: ≤23°C ΔT <del>[≤2°C] ≤ °Ca</del>	<del>[Aquatic lifeb and water contact recreation.]</del> <i>Propagation of aquatic life and recreation involving contact with the water.</i>
pH <del>[Units]</del> <i>Single Value</i>	--	<del>[S.V.: 7.0 - 8.3]</del> <i>Within range 6.5 - 9.0 SU</i> ΔpH: ±0.5 SU Max.	<del>[Water contact recreationb, wildlife propagationb.]</del> <i>Propagation of aquatic life, recreation involving contact with the water, propagation of wildlife, irrigation, <del>[stock watering.] watering of livestock,</del> municipal or domestic supply, or both, and industrial supply.</i>
Total Phosphates (as P) <del>[mg/l]</del> <i>Annual Average</i>	--	<del>[A-Avg.:]</del> ≤0.1 mg/l	<del>[Aquatic lifeb, water contact recreationb.]</del> <i>Propagation of aquatic life, recreation involving contact with the water, municipal or domestic supply, or both, and <del>[noncontact recreation.] recreation not involving contact with the water.</del></i>
Nitrogen Species <del>[(N) mg/l] (as N)</del> <i>Annual Average Single Value Single Value Single Value</i>	<del>[Total Nitrates A-Avg.: ≤0.25 S.V.: ≤0.45]</del> <i>Total Nitrate ≤0.25 mg/l ≤0.45 mg/l</i>	Nitrate: <del>[S.V.:]</del> ≤10 mg/l Nitrite: <del>[S.V.:]</del> ≤0.06 mg/l Ammonia: <del>[S.V.:]</del> ≤0.02 mg/l (un-ionized)	Municipal or domestic <del>[supplyb, aquatic lifeb, water contact recreation, stock watering, wildlife propagation and noncontact recreation.]</del> <i>supply, or both, propagation of aquatic life, recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water.</i>
Dissolved	--	<del>[S.V.:]</del> Nov.-May: ≥6.0 mg/l	<del>[Aquatic lifeb, water contact recreation, wildlife propagation, stock watering.]</del> <i>Propagation of aquatic</i>

Oxygen <del>{-mg/l}</del> Single Value	--	Jun.-Oct.: $\geq 5.0$ mg/l	<i>life, recreation involving contact with the water, propagation of wildlife, watering of livestock, municipal or domestic supply, or both, and <del>{nonecontact recreation-}</del> recreation not involving contact with the water.</i>
Suspended Solids <del>{-mg/l}</del> Single Value	<del>{-}</del> $\leq 45$ mg/l	<del>{S.V.:-}</del> $\leq 80$ mg/l	<del>{Aquatic lifeb.}</del> Propagation of aquatic life.
Turbidity <del>{-NTU}</del> Single Value	--	<del>{d}</del> b	<del>{Aquatic lifeb.}</del> Propagation of aquatic life and municipal or domestic supply <del>{-}</del> , or both.
Color <del>{-PCU}</del> Single Value	--	<del>{e}</del> $\leq 5$ PCU	<del>{Aquatic lifeb and municipal}</del> Municipal or domestic <del>{supplyb.}</del> supply, or both, and propagation of aquatic life.
Total Dissolved Solids <del>{-mg/l}</del> Annual Average Single Value	<del>{A-Avg.:-}</del> $\leq 220$ <del>{-mg/l}</del> $\leq 220$ mg/l $\leq 300$ mg/l	<del>{A-Avg.:-}</del> $\leq 500$ mg/l	Municipal or domestic <del>{supplyb.}</del> supply, or both, irrigation and <del>{stock watering.}</del> watering of livestock.
<del>{Chlorides -mg/l}</del> Chloride Annual Average Single Value	<del>{A-Avg.:-}</del> $\leq 5$ <del>{S.V.:-}</del> $\leq 7$ $\leq 5$ mg/l $\leq 7$ mg/l	-- <del>{S.V.:-}</del> $\leq 250$ mg/l	Municipal or domestic <del>{supplyb, wildlife propagation.}</del> supply, or both, propagation of wildlife, irrigation and <del>{stock watering.}</del> watering of livestock.
Sulfate <del>{-mg/l}</del> Single Value	--	<del>{S.V.:-}</del> $\leq 250$ mg/l	Municipal or domestic <del>{supplyb.}</del> supply, or both.
Sodium <del>{-SAR}</del> Adsorption Ratio Annual Average	--	<del>{A-Avg.:-}</del> $\leq 8$	<del>{Irrigationb}</del> Irrigation and municipal or domestic supply <del>{-}</del> , or both.
Alkalinity (as CaCO <sub>3</sub> ) <del>{-mg/l}</del>	--	less than 25% change from natural conditions	<del>{Aquatic lifeb and wildlife propagation.}</del> Propagation of aquatic life and propagation of wildlife.
<del>{Fecal Coliform- No./100 ml}</del> Escherichia coli Annual Geometric Mean Single Value	<del>{-}</del> -- --	<del>{-}</del> $\leq 200/400e$  $126$ MF/100 ml $235$ MF/100 ml	<del>{Water contact recreationb, nonecontact recreation.}</del> Recreation involving contact with the water, recreation not involving contact with the water, municipal or domestic supply, or both, irrigation <del>{-wildlife propagation and stock watering.}</del> watering of livestock.

a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

b. ~~{The most restrictive beneficial use.}~~

c. ~~Increase in color must not be more than 10 PCU above natural conditions.~~

d. ~~Increase in turbidity must not be more than 10 NTU above natural conditions.~~

~~{e. 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.}~~

Sec. 8. NAC 445A.165 is hereby amended to read as follows:

445A.165

# STANDARDS OF WATER QUALITY

## East Walker River

Control Point at the East Walker River at the state line. The limits of this table apply only to the East Walker River at the state line.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES <i>As designated in NAC 445A.159 (Most stringent use listed first)</i>
Temperature [ <del>°C</del> <del>Maximum</del> <del>ΔT<sub>a</sub></del> ] <i>Single Value</i>	ΔT = [ <del>0°C</del> ] <i>0 °Ca</i>	Nov.-Apr.: ≤13°C May-Jun.: ≤17°C Jul.-Oct.: ≤23°C ΔT [ <del>≤2°C</del> ] <i>≤ 2 °Ca</i>	<del>[Aquatic lifeb and water contact recreation.]</del> <i>Propagation of aquatic life and recreation involving contact with the water.</i>
pH [Units] <i>Single Value</i>	--	<del>[S.V.: 7.0–8.3]</del> <i>Within range 6.5 - 9.0 SU</i> ΔpH: ±0.5 SU Max.	<del>[Water contact recreationb, wildlife propagationb.]</del> <i>Propagation of aquatic life, recreation involving contact with the water, propagation of wildlife, irrigation, <del>[stock watering.]</del> watering of livestock, municipal or domestic supply, or both, and industrial supply.</i>
Total Phosphates (as P) [ <del>mg/l</del> ] <i>Annual Average</i>	--	<del>[A-Avg.:]</del> ≤0.1 mg/l	<del>[Aquatic lifeb, water contact recreationb.]</del> <i>Propagation of aquatic life, recreation involving contact with the water, municipal or domestic supply, or both, and <del>[noncontact recreation.]</del> recreation not involving contact with water.</i>
Nitrogen Species [ <del>(N)–mg/l</del> ] (as N) <i>Annual Average</i> <i>Single Value</i> <i>Single Value</i>	Total Nitrogen <del>[A-Avg.: ≤0.8</del> <del>S.V.: ≤1.4]</del> ≤0.8 mg/l ≤1.4 mg/l	Nitrate : <del>[S.V.:]</del> ≤10 mg/l Nitrite : <del>[S.V.:]</del> ≤0.06 mg/l Ammonia : <del>[S.V.:]</del> ≤0.02 mg/l (un-ionized)	Municipal or domestic <del>[supplyb, aquatic lifeb, water contact recreation, stock watering, wildlife propagation and noncontact recreation.]</del> <i>supply, or both, propagation of aquatic life, recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water.</i>
Dissolved Oxygen [ <del>mg/l</del> ] <i>Single Value</i>	-- --	<del>[S.V.:]</del> Nov.-May: ≥6.0 mg/l Jun.-Oct.: ≥5.0 mg/l	<del>[Aquatic lifeb, water contact recreation, wildlife propagation, stock watering.]</del> <i>Propagation of aquatic life, recreation involving contact with the water, propagation of wildlife, watering of livestock, municipal or domestic supply, or both, and <del>[noncontact recreation.]</del> recreation not involving contact with the water.</i>
Suspended Solids [ <del>mg/l</del> ] <i>Single Value</i>	<del>[S.V.:]</del> ≤30 mg/l	<del>[S.V.:]</del> ≤80 mg/l	<del>[Aquatic lifeb.]</del> <i>Propagation of aquatic life.</i>
Turbidity [ <del>NTU</del> ] <i>Single Value</i>	--	<del>[d] b</del>	<del>[Aquatic lifeb]</del> <i>Propagation of aquatic life and municipal or domestic supply <del>[,], or both.</del></i>
Color [ <del>PCU</del> ] <i>Single Value</i>	--	<del>[e]</del> ≤5 PCU	<del>[Aquatic lifeb and municipal]</del> <i>Municipal or domestic supply <del>[,], or both, and propagation of aquatic life.</del></i>
Total Dissolved Solids [ <del>mg/l</del> ] <i>Annual Average</i> <i>Single Value</i>	<del>[A-Avg.: ≤175</del> <del>S.V.: ≤210]</del> ≤175 mg/l ≤210 mg/l	<del>[A-Avg.:]</del> ≤500 mg/l	Municipal or domestic <del>[supplyb.]</del> <i>supply, or both, irrigation and <del>[stock watering.]</del> watering of livestock.</i>
<del>[Chlorides–mg/l]</del> <i>Chloride</i> <i>Annual Average</i>	<del>[A-Avg.: ≤5</del> <del>S.V.: ≤7]</del> ≤5 mg/l	-- <del>[S.V.:]</del>	Municipal or domestic <del>[supplyb, wildlife propagation.]</del> <i>supply, or both, propagation of wildlife, irrigation and <del>[stock watering.]</del> watering of livestock.</i>

<i>Single Value</i>	<i>≤7 mg/l</i>	<i>≤250 mg/l</i>	
Sulfate <del>{-mg/l}</del> <i>Single Value</i>	<del>{-}</del> <i>≤6 mg/l</i>	<del>{S.V.:}</del> <i>≤250 mg/l</i>	Municipal or domestic <del>{supplyb.}</del> <i>supply, or both.</i>
Sodium <del>{-SAR}</del> <i>Adsorption Ratio</i> <i>Annual Average</i>	<del>{A-Avg.}</del> <i>≤2</i>	<del>{A-Avg.}</del> <i>≤8</i>	<del>{Irrigationb.}</del> <i>Irrigation</i> and municipal or domestic supply <del>{-}</del> , <i>or both.</i>
Alkalinity (as CaCO <sub>3</sub> ) <del>{-mg/l}</del>	--	less than 25% change from natural conditions	<del>{Aquatic lifeb and wildlife propagation.}</del> <i>Propagation of aquatic life and propagation of wildlife.</i>
<del>{Fecal Coliform No./100 ml}</del> <i>Escherichia coli</i> <i>Annual Geometric Mean</i> <i>Single Value</i>	<del>{A.G.M.: ≤20}</del> <del>{-S.V.: ≤50}</del>  -- --	<del>{≤200/400e}</del>  <i>126 MF/100 ml</i> <i>235 MF/100 ml</i>	<del>{Water contact recreationb, nonecontact recreation.}</del> <i>Recreation involving contact with the water, recreation not involving contact with the water, municipal or domestic supply, or both, irrigation <del>{-wildlife propagation and stock watering.}</del> and watering of livestock.</i>

- a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.
- b. ~~{The most restrictive beneficial use.}~~
- c. ~~Increase in color must not be more than 10 PCU above natural conditions.~~
- d. ~~{}~~ Increase in turbidity must not be more than 10 NTU above natural conditions.
- e. ~~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.~~

Sec. 9. NAC 445A.166 is hereby amended to read as follows:

445A.166

## STANDARDS OF WATER QUALITY

### East Walker River

Control Point at the East Walker River south of Yerington above the confluence with the West Walker River (Nordyke Road). The limits of this table apply to the East Walker River south of Yerington above its confluence with the West Walker River to the ~~{state line.}~~ *East Walker River at Bridge B-1475.*

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES <i>As designated in NAC 445A.159 (Most stringent use listed first)</i>
Temperature [ <del>°C</del> ] <del>Maximum</del> <del>ΔT<sub>a</sub></del> Single Value	ΔT = <del>{0°C}</del> 0 °Ca	Nov.-Apr.: ≤13°C May-Jun.: ≤17°C Jul.-Oct.: ≤23°C  ΔT <del>{≤2°C}</del> ≤ 2°Ca	<del>{Aquatic lifeb and water contact recreation.}</del> Propagation of aquatic life and recreation involving contact with the water.
pH [Units] Single Value	--	<del>{S.V.: 7.0 - 8.3}</del> Within range 6.5 - 9.0 SU ΔpH: ±0.5 SU Max.	<del>{Water contact recreationb, wildlife propagationb.}</del> Propagation of aquatic life, recreation involving contact with the water, propagation of wildlife, irrigation, <del>{stock watering.}</del> watering of livestock, municipal or domestic supply, or both, and industrial supply.
Total Phosphates (as P) [ <del>mg/l</del> ] Annual Average Single Value	--	<del>{A-Avg.: ≤0.16}</del> <del>{S.V.: ≤0.39}</del> ≤0.16 mg/l ≤0.39 mg/l	<del>{Aquatic lifeb, water contact recreationb.}</del> Propagation of aquatic life, recreation involving contact with the water, municipal or domestic supply, or both, and <del>{noncontact recreation.}</del> recreation not involving contact with the water.
Nitrogen Species [ <del>N</del> - mg/l] (as N) Annual Average Single Value Single Value	Total Nitrogen <del>{A-Avg.: ≤0.9}</del> <del>{S.V.: ≤1.7}</del> ≤0.9 mg/l ≤1.7 mg/l	Nitrate: <del>{S.V.:}</del> ≤10 mg/l Nitrite: <del>{S.V.:}</del> ≤0.6 mg/l Ammonia: <del>{S.V.:}</del> ≤0.2 mg/l (un-ionized)	Municipal or domestic <del>{supplyb, aquatic lifeb, water contact recreation, stock watering, wildlife propagation and noncontact recreation.}</del> supply, or both, propagation of aquatic life, recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water.
Dissolved Oxygen [ <del>mg/l</del> ] Single Value	--	<del>{S.V.:}</del> Nov.-May: ≥6.0 mg/l Jun.-Oct.: ≥5.0 mg/l	<del>{Aquatic lifeb, water contact recreation, wildlife propagation, stock watering.}</del> Propagation of aquatic life, recreation involving contact with the water, propagation of wildlife, watering of livestock, municipal or domestic supply, or both, and <del>{noncontact recreation.}</del> recreation not involving contact with the water.
Suspended Solids [ <del>mg/l</del> ] Single Value	--	<del>{S.V.:}</del> ≤80 mg/l	<del>{Aquatic lifeb.}</del> Propagation of aquatic life.
Turbidity [ <del>NTU</del> ] Single Value	--	<del>{t}</del> b	<del>{Aquatic lifeb}</del> Propagation of aquatic life and municipal or domestic supply <del>{t}</del> , or both.
Color [ <del>PCU</del> ] Single Value	--	<del>{c}</del> ≤75 PCU	<del>{Aquatic lifeb and municipal}</del> Municipal or domestic supply <del>{t}</del> , or both, propagation of aquatic life.
Total Dissolved Solids [ <del>mg/l</del> ] Annual Average Single Value	<del>{A-Avg.: ≤320}</del> <del>{S.V.: ≤390}</del> ≤320 mg/l ≤390 mg/l	<del>{A-Avg.:}</del> ≤500 mg/l	Municipal or domestic <del>{supplyb.}</del> supply, or both, irrigation and <del>{stock watering.}</del> watering of livestock.
<del>{Chlorides - mg/l}</del> Chloride Annual Average Single Value	<del>{A-Avg.: ≤13}</del> <del>{S.V.: ≤19}</del> ≤13 mg/l ≤19 mg/l	-- <del>{S.V.:}</del> ≤250 mg/l	Municipal or domestic <del>{supplyb, wildlife propagation.}</del> supply, or both, propagation of wildlife, irrigation and <del>{stock watering.}</del> watering of livestock.
Sulfate [ <del>mg/l</del> ] Single Value	<del>{t}</del> ≤44 mg/l	<del>{S.V.:}</del> ≤250 mg/l	Municipal or domestic <del>{supplyb.}</del> supply, or both.
Sodium [ <del>SAR</del> ] Adsorption Ratio Annual Average	--	<del>{A-Avg.:}</del> ≤8	<del>{Irrigationb}</del> Irrigation and municipal or domestic supply <del>{t}</del> , or both.
Alkalinity (as CaCO <sub>3</sub> ) [ <del>mg/l</del> ]	--	less than 25% change from natural conditions	<del>{Aquatic lifeb and wildlife propagation.}</del> Propagation of aquatic life and propagation of wildlife.
<del>{Fecal Coliform - No./100-ml}</del> <del>Escherichia coli</del>	<del>{A.G.M.: ≤75}</del> <del>{S.V.: ≤350}</del>	<del>{t}</del> ≤200/400e	<del>{Water contact recreationb, noncontact recreation.}</del> Recreation involving contact with the water, recreation not involving contact with the water, municipal or

<i>Annual Average Geometric Mean Single Value</i>	--	126 MF/100 ml 235 MF/100 ml	domestic supply, <i>or both</i> , irrigation <del>[wildlife propagation and stock watering.]</del> <i>and watering of livestock.</i>
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- a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.
- b. ~~[The most restrictive beneficial use.~~
- c. ~~Increase in color must not be more than 10 PCU above natural conditions.~~
- d. ~~Increase in turbidity must not be more than 10 NTU above natural conditions.~~
- e. ~~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.]~~

**Sec. 10.** NAC 445A.167 is hereby amended to read as follows:

445A.167

### STANDARDS OF WATER QUALITY

#### Walker River

Control Point at the Walker River at the inlet to Weber Reservoir. The limits of this table apply to the Walker River from the inlet to Weber Reservoir to the confluence of the West Walker River and the East Walker River.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES <i>As designated in NAC 445A.159 (Most stringent use listed first)</i>
Temperature <del>°C</del> <del>Maximum</del>		Nov.-Mar.: ≤13°C Apr.-Jun.: <del>≤24°C</del> ≤23 °C <sup>b</sup> Jul.-Oct.: ≤28°C	<del>[Aquatic life and water contact recreation.]</del> <i>Propagation of aquatic life and recreation involving contact with the water.</i>
<del>ΔT<sub>a</sub>]</del> <i>Single Value</i>	ΔT = <del>[0°C]</del> 0 °C <sup>a</sup>	ΔT ≤2°C	



pH <del>{Units}</del> Single Value	--	<del>{S.V.: 7.0 – 8.3}</del> Within range 6.5 - 9.0 SU ΔpH: ±0.5 SU Max.	<del>{Water contact recreation, wildlife propagation,}</del> Propagation of aquatic life, recreation involving contact with the water, propagation of wildlife, irrigation, <del>{stock watering,}</del> watering of livestock, municipal or domestic supply, or both, and industrial supply.
Total Phosphates (as P) <del>{mg/l}</del> Annual Average Single Value	--	<del>{A Avg.: ≤0.26}</del> <del>{S.V.: ≤0.40}</del> 0.26 mg/l 0.40 mg/l	<del>{Aquatic life, water contact recreation,}</del> Propagation of aquatic life, recreation involving contact with the water, municipal or domestic supply, or both, and <del>{noncontact recreation,}</del> recreation not involving contact with the water.
Nitrogen Species <del>{(N) – mg/l}</del> (as N) Annual Average Single Value Single Value	Total Nitrogen <del>{A Avg.: ≤1.2}</del> <del>{S.V.: ≤1.5}</del> 1.2 mg/l 1.5 mg/l	Nitrate : <del>{S.V.:}</del> ≤10 mg/l Nitrite : <del>{S.V.:}</del> ≤1 mg/l Ammonia : <del>{S.V.:}</del> ≤0.06 mg/l (un-ionized)	Municipal or domestic <del>{supply, aquatic life, water contact recreation, stock watering, wildlife propagation and noncontact recreation,}</del> supply, or both, propagation of aquatic life, recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water.
Dissolved Oxygen <del>{mg/l}</del> Single Value	-- --	<del>{S.V.:}</del> Nov.-May: ≥6.0 mg/l Jun.-Oct.: ≥5.0 mg/l	<del>{Aquatic life, water contact recreation, wildlife propagation, stock watering,}</del> Propagation of aquatic life, recreation involving contact with the water, propagation of wildlife, watering of livestock, municipal or domestic supply, or both, and <del>{noncontact recreation,}</del> recreation not involving contact with the water.
Suspended Solids <del>{mg/l}</del> Single Value	--	<del>{S.V.:}</del> ≤80 mg/l	<del>{Aquatic life,}</del> Propagation of aquatic life.
Turbidity <del>{NTU}</del> Single Value	--	d	<del>{Aquatic life,}</del> Propagation of aquatic life and municipal or domestic supply <del>{,}</del> , or both.
Color <del>{PCU}</del> Single Value	--	<del>{e}</del> ≤75 PCU	<del>{Aquatic life and municipal}</del> Municipal or domestic supply <del>{,}</del> , or both, and propagation of aquatic life.
Total Dissolved Solids <del>{mg/l}</del> Annual Average Single Value	<del>{A Avg.: ≤400}</del> <del>{S.V.: ≤450}</del> 400 mg/l 450 mg/l	<del>{A Avg.:}</del> ≤500 mg/l	Municipal or domestic <del>{supply,}</del> , or both, irrigation and <del>{stock watering,}</del> watering of livestock.
<del>{Chlorides – mg/l}</del> Chloride Annual Average Single Value	<del>{A Avg.: ≤30}</del> <del>{S.V.: ≤35}</del> 30 mg/l 35 mg/l	-- <del>{S.V.:}</del> ≤250 mg/l	Municipal or domestic <del>{supply, wildlife propagation,}</del> supply, or both, propagation of wildlife irrigation and <del>{stock watering,}</del> watering of livestock.
Sulfate <del>{mg/l}</del> Annual Average Single Value	<del>{A Avg.: ≤95}</del> <del>{S.V.: ≤110}</del> 95 mg/l 110 mg/l	<del>{S.V.:}</del> ≤250 mg/l	Municipal or domestic <del>{supply,}</del> supply, or both.
Sodium <del>{SAR}</del> Adsorption Ratio Annual Average	<del>{SAR A Avg.:}</del> ≤3	<del>{A Avg.:}</del> ≤8	<del>{Irrigation}</del> Irrigation and municipal or domestic supply <del>{,}</del> , or both.
Alkalinity (as CaCO <sub>3</sub> ) <del>{mg/l}</del>	--	less than 25% change from natural conditions	<del>{Aquatic life and wildlife propagation,}</del> Propagation of aquatic life and propagation of wildlife.
<del>{Fecal Coliform – No./100 ml}</del> Escherichia coli Annual Geometric Mean Single Value	<del>{A.G.M.: ≤100}</del> <del>{S.V.: ≤200}</del>	<del>{≤200/400e}</del>  126 MF/100 ml 235 MF/100 ml	<del>{Water contact recreation, noncontact recreation,}</del> Recreation involving contact with the water, recreation not involving contact with the water, municipal or domestic supply, or both, irrigation <del>{, wildlife propagation and stock watering,}</del> and watering of livestock.

a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

b. ~~[The most restrictive beneficial use.]~~

~~e. Increase in color must not be more than 10 PCU above natural conditions.]~~ *The temperature beneficial use standard is  $\leq 1$  °C from February through June when Lahontan cutthroat are present in the reach from Walker Lake to Weber Reservoir.*

*c. The nitrite beneficial use standard is  $\leq 0.06$  mg/l from February through June when Lahontan cutthroat trout are present in the reach from Walker Lake to the Weber Reservoir.*

d. Increase in turbidity must not be more than 10 NTU above natural conditions.

~~[e. 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.]~~

**Sec. 11.** NAC 445A.168 is hereby amended to read as follows:

445A.168

## STANDARDS OF WATER QUALITY

### Walker River

Control Point at Schurz Bridge. The limits of this table apply from the inlet to Walker Lake to Weber Reservoir.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES <i>As designated in NAC 445A.159 (Most stringent use listed first)</i>
Temperature [ <del>°C</del> ] <del>Maximum</del>  <del>ΔT<sub>a</sub>] Single Value</del>	<del>ΔT = [0°C] 0 °C<sub>a</sub></del>	Nov.-Mar.: $\leq 13$ °C Apr.-Jun.: [ <del><math>\leq 23</math>°C</del> ] $\leq 3$ °C <sub>b</sub> Jul.-Oct.: $\leq 28$ °C  ΔT $\leq 2$ °C	<del>[Aquatic life<sup>b</sup> and water contact recreation.]</del> <i>Propagation of aquatic life and recreation involving contact with the water.</i>
pH [Units] Single Value	--	<del>[S.V.: 7.0–8.3]</del> <i>Within range 6.5 - 9.0 SU</i> ΔpH: $\pm 0.5$ SU Max.	<del>[Water contact recreation<sup>b</sup>, wildlife propagation<sup>b</sup>.]</del> <i>Propagation of aquatic life, recreation involving contact with the water, propagation of wildlife, irrigation, [stock watering<sup>b</sup>] watering of livestock, municipal or domestic supply, or both, and industrial</i>

			supply.
Total Phosphates (as P) <del>[mg/l]</del> Annual Average Single Value	--	<del>[A-Avg.: ≤0.17 —S.V.: ≤0.23] ≤0.17 mg/l ≤0.23 mg/l</del>	<del>[Aquatic life, water contact recreation, b.] Propagation of aquatic life, recreation involving contact with the water, municipal or domestic supply, or both, and [noncontact recreation.] recreation not involving contact with the water.</del>
Nitrogen Species <del>[(N) mg/l]</del> (as N) Annual Average Single Value Single Value Single Value	Total Nitrogen <del>[A-Avg.: ≤1.2 —S.V.: ≤1.5] ≤1.2 mg/l ≤1.5 mg/l</del>	Nitrate: <del>[S.V.:] ≤10 mg/l</del> Nitrite: <del>[S.V.:] ≤1 mg/l</del> Ammonia: <del>[S.V.:] ≤0.06 mg/l</del> (un-ionized)	Municipal or domestic <del>[supply, b., aquatic life, water contact recreation, stock watering, wildlife propagation and noncontact recreation.]</del> supply, or both, propagation of aquatic life, recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water.
Dissolved Oxygen <del>[mg/l]</del> Single Value	-- --	<del>[S.V.: Nov.-Apr.: ≥6.0 —May-Oct.: ≥5.0] Nov.-May: ≥6.0 mg/l June-Oct.: ≥5.0 mg/l</del>	<del>[Aquatic life, water contact recreation, wildlife propagation, stock watering.] Propagation of aquatic life, recreation involving contact with the water, propagation of wildlife, watering of livestock, municipal or domestic supply, or both, and [noncontact recreation.] recreation not involving contact with the water.</del>
Suspended Solids <del>[mg/l]</del> Single Value	<del>[Ann. Avg.:] ≤60 mg/l</del>	<del>[S.V.:] ≤80 mg/l</del>	<del>[Aquatic life, b.] Propagation of aquatic life.</del>
Turbidity <del>[NTU]</del> Single Value	--	d	<del>[Aquatic life, b.] Propagation of aquatic life and municipal or domestic supply [ ], or both.</del>
Color <del>[PCU]</del> Single Value	--	<del>[e] ≤75 PCU</del>	<del>[Aquatic life and municipal.] Municipal or domestic supply [ ], or both, and propagation of aquatic life.</del>
Total Dissolved Solids <del>[mg/l]</del> Annual Average Single Value	<del>[A-Avg.: ≤390 —S.V.: ≤570] ≤390 mg/l ≤570 mg/l</del>	<del>[A-Avg.:] ≤500 mg/l</del>	Municipal or domestic <del>[supply, b.]</del> supply, or both, irrigation and <del>[stock watering.]</del> watering of livestock.
<del>[Chlorides mg/l]</del> Chloride Annual Average Single Value	<del>[A-Avg.: ≤23 —S.V.: ≤34] ≤23 mg/l ≤34 mg/l</del>	-- <del>[S.V.:] ≤250 mg/l</del>	Municipal or domestic <del>[supply, b., wildlife propagation.]</del> supply, or both, propagation of wildlife, irrigation and <del>[stock watering.]</del> watering of livestock.
Sulfate <del>[mg/l]</del> Single Value	--	<del>[S.V.:] ≤250 mg/l</del>	Municipal or domestic <del>[supply, b.]</del> supply, or both.
Sodium <del>[SAR]</del> Adsorption Ratio Annual Average	<del>[SAR A-Avg.:] ≤3</del>	<del>[A-Avg.:] ≤8</del>	<del>[Irrigation, b.] Irrigation and municipal or domestic supply [ ], or both.</del>
Alkalinity (as CaCO <sub>3</sub> ) <del>[mg/l]</del>	--	less than 25% change from natural conditions	<del>[Aquatic life and wildlife propagation.] Propagation of aquatic life and propagation of wildlife.</del>
<del>[Fecal Coliform No./100 ml]</del> Escherichia coli Annual Geometric Mean Single Value	<del>[A.G.M.: ≤50 —S.V.: ≤110] -- --</del>	<del>[≤200/400e]  126 MF/100 ml 235 MF/100 ml</del>	<del>[Water contact recreation, b., noncontact recreation.] Recreation involving contact with the water, recreation not involving contact with the water, municipal or domestic supply, or both, irrigation [ ], wildlife propagation and stock watering.] and watering of livestock.</del>

- a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.
- b. ~~[The most restrictive beneficial use.]~~

~~e. Increase in color must not be more than 10 PCU above natural conditions.]~~ *The temperature beneficial use standard is  $\leq 1$  °C from February through June when Lahontan cutthroat trout are present.*

*c. The nitrite beneficial use standard is  $\leq 0.06$  mg/l from February through June when Lahontan cutthroat trout are present.*

d. Increase in turbidity must not be more than 10 NTU above natural conditions.

~~[e. 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.]~~

**Sec. 12.** NAC 445A.169 is hereby amended to read as follows:

445A.169

## STANDARDS OF WATER QUALITY

### Desert Creek

Control Point at Desert Creek. The limits of this table apply to Desert Creek from its confluence with the West Walker River to the state line.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES <i>Designated in NAC 445A.159 (Most stringent use listed first)</i>
Temperature [ <del>°C</del> <del>Maximum</del> <del>ΔT<sub>a</sub></del> <i>Single Value</i>	ΔT = [ <del>0°C</del> ] <i>0 °Ca</i>	Nov.-Apr.: $\leq 13$ °C May-Jun.: $\leq 17$ °C Jul.-Oct.: $\leq 23$ °C ΔT [ <del><math>\leq 2</math>°C</del> ] <i><math>\leq 2</math>°Ca</i>	<del>[Aquatic lifeb and water contact recreation.]</del> <i>Propagation of aquatic life and recreation involving contact with the water.</i>
pH [ <del>Units</del> <i>Single Value</i>	--	<del>[S.V.: 7.0 – 8.3]</del> <i>Within range 6.5 - 9.0 SU</i> ΔpH: $\pm 0.5$ SU Max.	<del>[Water contact recreationb, wildlife propagationb.]</del> <i>Propagation of aquatic life, recreation involving contact with the water, propagation of wildlife, irrigation, [stock watering,] watering of livestock, municipal or domestic supply, or both, and industrial supply.</i>
Total Phosphates (as P) [ <del>mg/l</del> <i>Annual Average</i>		<del>[A-Avg.:]</del> $\leq 0.1$ mg/l	<del>[Aquatic lifeb, water contact recreationb.]</del> <i>Propagation of aquatic life, recreation involving contact with the water, municipal or domestic supply,</i>

Single Value	<del>{S.V.:} ≤0.13 mg/l</del>		<del>or both, and {noncontact recreation.} recreation not involving contact with the water.</del>
Nitrogen Species {(N) —mg/l} (as N)  Annual Average Single Value Single Value Single Value	Total <del>{Nitrates A.Avg.: ≤0.20 —S.V.: ≤0.27} Nitrate</del> ≤0.20 mg/l ≤0.27 mg/l	Nitrate : <del>{S.V.:} ≤10 mg/l</del> Nitrite : <del>{S.V.:} ≤0.06 mg/l</del> Ammonia : <del>{S.V.:} ≤0.02 mg/l</del> (un-ionized)	Municipal or domestic <del>{supply, aquatic life, water contact recreation, stock watering, wildlife propagation and noncontact recreation.} supply, or both, propagation of aquatic life, recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water.</del>
Dissolved Oxygen <del>{—mg/l}</del> Single Value	--	<del>{S.V.:}</del> Nov.-May: ≥6.0 mg/l Jun.-Oct.: ≥5.0 mg/l	<del>{Aquatic life, water contact recreation, wildlife propagation, stock watering.} Propagation of aquatic life, recreation involving contact with the water, propagation of wildlife, watering of livestock, municipal or domestic supply, or both, and {noncontact recreation.} recreation not involving contact with the water.</del>
Suspended Solids <del>{—mg/l}</del> Single Value	--	<del>{S.V.:}</del> ≤80 mg/l	<del>{Aquatic life.} Propagation of aquatic life.</del>
Turbidity <del>{—NTU}</del> Single Value	--	<del>{t} b</del>	<del>{Aquatic life} Propagation of aquatic life and municipal or domestic supply {t}, or both.</del>
Color <del>{—PCU}</del> Single Value	--	<del>{c}</del> ≤75 PCU	<del>{Aquatic life and municipal} Municipal or domestic supply {t}, or both, and propagation of aquatic life.</del>
Total Dissolved Solids <del>{—mg/l}</del> Annual Average Single Value	<del>{A.Avg.: ≤140 —S.V.: ≤130}</del> ≤110 mg/l ≤130 mg/l	<del>{A.Avg.:} ≤500 mg/l</del>	Municipal or domestic <del>{supply.}, or both, irrigation and {stock watering.} watering of livestock.</del>
<del>{Chlorides —mg/l}</del> Chloride Annual Average Single Value	<del>{A.Avg.: ≤5 —S.V.: ≤7}</del> ≤5 mg/l ≤7 mg/l	-- <del>{S.V.:} ≤250 mg/l</del>	Municipal or domestic <del>{supply, wildlife propagation.} supply, or both, propagation of wildlife, irrigation and {stock watering.} watering of livestock.</del>
Sulfate <del>{—mg/l}</del> Single Value	--	<del>{S.V.:}</del> ≤250 mg/l	Municipal or domestic <del>{supply.} supply, or both.</del>
Sodium <del>{—SAR}</del> Adsorption Ratio Annual Average	--	<del>{A.Avg.:}</del> ≤8	<del>{Irrigation} Irrigation and municipal or domestic supply {t}, or both.</del>
Alkalinity (as CaCO <sub>3</sub> ) <del>{—mg/l}</del>	--	less than 25% change from natural conditions	<del>{Aquatic life and wildlife propagation.} Propagation of aquatic life and propagation of wildlife.</del>
<del>{Fecal Coliform—No./100 ml}</del> Escherichia coli Annual Geometric Mean Single Value	<del>{A.G.M.: ≤100 —S.V.: ≤200}</del>	<del>{≤200/400e}</del>  126 MF/100 ml 235 MF/100 ml	<del>{Water contact recreation, noncontact recreation.} Recreation involving contact with the water, recreation not involving contact with the water, municipal or domestic supply, or both, irrigation {t}, wildlife propagation and stock watering.} and watering of livestock.</del>

- a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.
- b. ~~{The most restrictive beneficial use.}~~
- c. ~~Increase in color must not be more than 10 PCU above natural conditions.~~
- d. ~~Increase in turbidity must not be more than 10 NTU above natural conditions.~~

~~[e. 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.]~~