REVISED PROPOSED REGULATION OF THE

STATE ENVIRONMENTAL COMMISSION

LCB File No. R099-02

September 17, 2002

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

AUTHORITY: §§1-63, NRS 445A.425 and 445A.520.

Section 1. Chapter 445A of NAC is hereby amended by adding thereto the provisions set forth as sections 2 and 3 of this regulation.

Sec. 2. ***"E. Coli" means escherichia coli.***

Sec. 3. ***1. The acute criteria of water quality with regard to the concentration of total ammonia are subject to the following:***

(a) The 1-hour average concentration of total ammonia, in milligrams of nitrogen per liter, for the protection of freshwater aquatic life is shown in Table 1.

(b) For cold water fisheries, the concentration of total ammonia, in milligrams of nitrogen per liter, must not exceed the applicable acute criterion listed under "Cold Water Fisheries" set forth in Table 1, more than once every 3 years on average.

(c) For warm water fisheries, the concentration of total ammonia, in milligrams of nitrogen per liter, must not exceed the applicable acute criterion listed under "Warm Water Fisheries" set forth in Table 1, more than once every 3 years on average.

2. The chronic criteria of water quality with regard to the concentration of total ammonia are subject to the following:

(a) The 30-day average concentration of total ammonia, in milligrams of nitrogen per liter, for the protection of freshwater aquatic life is shown in Tables 2 and 3.

(b) The concentration of total ammonia, in milligrams of nitrogen per liter, expressed as a 30-day average must not exceed the applicable chronic criterion listed in Tables 2 and 3 more than once every 3 years on average, and the highest 4-day average within the 30-day period must not exceed 2.5 times the applicable chronic criterion.

(c) Table 3 must not be used unless the division receives acceptable documentation of the absence of freshwater fish in early life stages.

TABLE 1: ACUTE WATER QUALITY CRITERIA FOR TOTAL AMMONIA FOR FRESHWATER AQUATIC LIFE (mg nitrogen/l)		
pH	*Cold Water Fisheries[1]*	*Warm Water Fisheries[2]*
6.5	*32.6*	*48.8*
6.6	*31.3*	*46.8*
6.7	*29.8*	*44.6*
6.8	*28.1*	*42.0*
6.9	*26.2*	*39.1*
7.0	*24.1*	*36.1*
7.1	*22.0*	*32.8*
7.2	*19.7*	*29.5*
7.3	*17.5*	*26.2*
7.4	*15.4*	*23.0*
7.5	*13.3*	*19.9*
7.6	*11.4*	*17.0*
7.7	*9.65*	*14.4*
7.8	*8.11*	*12.1*

TABLE 1: ACUTE WATER QUALITY CRITERIA FOR TOTAL AMMONIA FOR FRESHWATER AQUATIC LIFE (mg nitrogen/l)		
pH	*Cold Water Fisheries*[1]	*Warm Water Fisheries*[2]
7.9	*6.77*	*10.1*
8.0	*5.62*	*8.40*
8.1	*4.64*	*6.95*
8.2	*3.83*	*5.72*
8.3	*3.15*	*4.71*
8.4	*2.59*	*3.88*
8.5	*2.14*	*3.20*
8.6	*1.77*	*2.65*
8.7	*1.47*	*2.20*
8.8	*1.23*	*1.84*
8.9	*1.04*	*1.56*
9.0	*0.885*	*1.32*

[1] The acute water quality criteria for total ammonia for cold water fisheries were calculated using the following equation, which may also be used to calculate unlisted values:

Acute water quality criteria for ammonia (cold water fisheries) =

$$\left[\frac{0.275}{1+10^{7.204-pH}}\right]+\left[\frac{39.0}{1+10^{pH-7.204}}\right]$$

[2] The acute water quality criteria for total ammonia for warm water fisheries were calculated using the following equation, which may also be used to calculate unlisted values:

Acute water quality criteria for ammonia (warm water fisheries) =

$$\left[\frac{0.411}{1+10^{7.204-pH}}\right]+\left[\frac{58.4}{1+10^{pH-7.204}}\right]$$

TABLE 2: CHRONIC WATER QUALITY CRITERIA FOR TOTAL AMMONIA FOR WATERS WHERE FRESHWATER FISH IN EARLY LIFE STAGES MAY BE PRESENT (mg nitrogen/l)[1]										
pH	*Temperature (°C)*									
	0	*14*	*16*	*18*	*20*	*22*	*24*	*26*	*28*	*30*
6.5	*6.67*	*6.67*	*6.06*	*5.33*	*4.68*	*4.12*	*3.62*	*3.18*	*2.80*	*2.46*
6.6	*6.57*	*6.57*	*5.97*	*5.25*	*4.61*	*4.05*	*3.56*	*3.13*	*2.75*	*2.42*
6.7	*6.44*	*6.44*	*5.86*	*5.15*	*4.52*	*3.98*	*3.50*	*3.07*	*2.70*	*2.37*
6.8	*6.29*	*6.29*	*5.72*	*5.03*	*4.42*	*3.89*	*3.42*	*3.00*	*2.64*	*2.32*
6.9	*6.12*	*6.12*	*5.56*	*4.89*	*4.30*	*3.78*	*3.32*	*2.92*	*2.57*	*2.25*
7.0	*5.91*	*5.91*	*5.37*	*4.72*	*4.15*	*3.65*	*3.21*	*2.82*	*2.48*	*2.18*
7.1	*5.67*	*5.67*	*5.15*	*4.53*	*3.98*	*3.50*	*3.08*	*2.70*	*2.38*	*2.09*
7.2	*5.39*	*5.39*	*4.90*	*4.31*	*3.78*	*3.33*	*2.92*	*2.57*	*2.26*	*1.99*
7.3	*5.08*	*5.08*	*4.61*	*4.06*	*3.57*	*3.13*	*2.76*	*2.42*	*2.13*	*1.87*
7.4	*4.73*	*4.73*	*4.30*	*3.78*	*3.32*	*2.92*	*2.57*	*2.26*	*1.98*	*1.74*
7.5	*4.36*	*4.36*	*3.97*	*3.49*	*3.06*	*2.69*	*2.37*	*2.08*	*1.83*	*1.61*
7.6	*3.98*	*3.98*	*3.61*	*3.18*	*2.79*	*2.45*	*2.16*	*1.90*	*1.67*	*1.47*
7.7	*3.58*	*3.58*	*3.25*	*2.86*	*2.51*	*2.21*	*1.94*	*1.71*	*1.50*	*1.32*
7.8	*3.18*	*3.18*	*2.89*	*2.54*	*2.23*	*1.96*	*1.73*	*1.52*	*1.33*	*1.17*
7.9	*2.80*	*2.80*	*2.54*	*2.24*	*1.96*	*1.73*	*1.52*	*1.33*	*1.17*	*1.03*
8.0	*2.43*	*2.43*	*2.21*	*1.94*	*1.71*	*1.50*	*1.32*	*1.16*	*1.02*	*0.897*
8.1	*2.10*	*2.10*	*1.91*	*1.68*	*1.47*	*1.29*	*1.14*	*1.00*	*0.879*	*0.773*
8.2	*1.79*	*1.79*	*1.63*	*1.43*	*1.26*	*1.11*	*0.973*	*0.855*	*0.752*	*0.661*
8.3	*1.52*	*1.52*	*1.39*	*1.22*	*1.07*	*0.941*	*0.827*	*0.727*	*0.639*	*0.562*
8.4	*1.29*	*1.29*	*1.17*	*1.03*	*0.906*	*0.796*	*0.700*	*0.615*	*0.541*	*0.475*
8.5	*1.09*	*1.09*	*0.990*	*0.870*	*0.765*	*0.672*	*0.591*	*0.520*	*0.457*	*0.401*
8.6	*0.920*	*0.920*	*0.836*	*0.735*	*0.646*	*0.568*	*0.499*	*0.439*	*0.386*	*0.339*
8.7	*0.778*	*0.778*	*0.707*	*0.622*	*0.547*	*0.480*	*0.422*	*0.371*	*0.326*	*0.287*
8.8	*0.661*	*0.661*	*0.601*	*0.528*	*0.464*	*0.408*	*0.359*	*0.315*	*0.277*	*0.244*

TABLE 2: CHRONIC WATER QUALITY CRITERIA FOR TOTAL AMMONIA FOR WATERS WHERE FRESHWATER FISH IN EARLY LIFE STAGES MAY BE PRESENT (mg nitrogen/l)[1]										
pH	*Temperature (°C)*									
	0	*14*	*16*	*18*	*20*	*22*	*24*	*26*	*28*	*30*
8.9	*0.565*	*0.565*	*0.513*	*0.451*	*0.397*	*0.349*	*0.306*	*0.269*	*0.237*	*0.208*
9.0	*0.486*	*0.486*	*0.442*	*0.389*	*0.342*	*0.300*	*0.264*	*0.232*	*0.204*	*0.179*

[1] The chronic water quality criteria for total ammonia for waters where freshwater fish in early life stages may be present were calculated using the following equation, which may also be used to calculate unlisted values:

Chronic water quality criteria for ammonia (fish in early life stages present) =

$$\left[\frac{0.0577}{1+10^{7.688-pH}}+\frac{2.487}{1+10^{pH-7.688}}\right] x\ MIN\left[2.85, 1.45\ x\ 10^{0.028x(25-T)}\right]$$ *where:*

T=°C

x means multiplication

MIN means the lesser of the two values separated by the comma

TABLE 3: CHRONIC WATER QUALITY CRITERIA FOR TOTAL AMMONIA FOR WATERS WHERE FRESHWATER FISH IN EARLY LIFE STAGES ARE ABSENT (mg nitrogen/l)[1]										
pH	*Temperature (°C)*									
	0-7	*8*	*9*	*10*	*11*	*12*	*13*	*14*	*15[2]*	*16[2]*
6.5	*10.8*	*10.1*	*9.51*	*8.92*	*8.36*	*7.84*	*7.35*	*6.89*	*6.46*	*6.06*
6.6	*10.7*	*9.99*	*9.37*	*8.79*	*8.24*	*7.72*	*7.24*	*6.79*	*6.36*	*5.97*
6.7	*10.5*	*9.81*	*9.20*	*8.62*	*8.08*	*7.58*	*7.11*	*6.66*	*6.25*	*5.86*
6.8	*10.2*	*9.58*	*8.98*	*8.42*	*7.90*	*7.40*	*6.94*	*6.51*	*6.10*	*5.72*
6.9	*9.93*	*9.31*	*8.73*	*8.19*	*7.68*	*7.20*	*6.75*	*6.33*	*5.93*	*5.56*
7.0	*9.60*	*9.00*	*8.43*	*7.91*	*7.41*	*6.95*	*6.52*	*6.11*	*5.73*	*5.37*

TABLE 3: CHRONIC WATER QUALITY CRITERIA FOR TOTAL AMMONIA FOR WATERS WHERE FRESHWATER FISH IN EARLY LIFE STAGES ARE ABSENT (mg nitrogen/l)[1]										
pH	*Temperature (°C)*									
	0-7	*8*	*9*	*10*	*11*	*12*	*13*	*14*	*15[2]*	*16[2]*
7.1	*9.20*	*8.63*	*8.09*	*7.58*	*7.11*	*6.67*	*6.25*	*5.86*	*5.49*	*5.15*
7.2	*8.75*	*8.20*	*7.69*	*7.21*	*6.76*	*6.34*	*5.94*	*5.57*	*5.22*	*4.90*
7.3	*8.24*	*7.73*	*7.25*	*6.79*	*6.37*	*5.97*	*5.60*	*5.25*	*4.92*	*4.61*
7.4	*7.69*	*7.21*	*6.76*	*6.33*	*5.94*	*5.57*	*5.22*	*4.89*	*4.59*	*4.30*
7.5	*7.09*	*6.64*	*6.23*	*5.84*	*5.48*	*5.13*	*4.81*	*4.51*	*4.23*	*3.97*
7.6	*6.46*	*6.05*	*5.67*	*5.32*	*4.99*	*4.68*	*4.38*	*4.11*	*3.85*	*3.61*
7.7	*5.81*	*5.45*	*5.11*	*4.79*	*4.49*	*4.21*	*3.95*	*3.70*	*3.47*	*3.25*
7.8	*5.17*	*4.84*	*4.54*	*4.26*	*3.99*	*3.74*	*3.51*	*3.29*	*3.09*	*2.89*
7.9	*4.54*	*4.26*	*3.99*	*3.74*	*3.51*	*3.29*	*3.09*	*2.89*	*2.71*	*2.54*
8.0	*3.95*	*3.70*	*3.47*	*3.26*	*3.05*	*2.86*	*2.68*	*2.52*	*2.36*	*2.21*
8.1	*3.41*	*3.19*	*2.99*	*2.81*	*2.63*	*2.47*	*2.31*	*2.17*	*2.03*	*1.91*
8.2	*2.91*	*2.73*	*2.56*	*2.40*	*2.25*	*2.11*	*1.98*	*1.85*	*1.74*	*1.63*
8.3	*2.47*	*2.32*	*2.18*	*2.04*	*1.91*	*1.79*	*1.68*	*1.58*	*1.48*	*1.39*
8.4	*2.09*	*1.96*	*1.84*	*1.73*	*1.62*	*1.52*	*1.42*	*1.33*	*1.25*	*1.17*
8.5	*1.77*	*1.66*	*1.55*	*1.46*	*1.37*	*1.28*	*1.20*	*1.13*	*1.06*	*0.990*
8.6	*1.49*	*1.40*	*1.31*	*1.23*	*1.15*	*1.08*	*1.01*	*0.951*	*0.892*	*0.836*
8.7	*1.26*	*1.18*	*1.11*	*1.04*	*0.976*	*0.915*	*0.858*	*0.805*	*0.754*	*0.707*
8.8	*1.07*	*1.01*	*0.944*	*0.885*	*0.829*	*0.778*	*0.729*	*0.684*	*0.641*	*0.601*
8.9	*0.917*	*0.860*	*0.806*	*0.756*	*0.709*	*0.664*	*0.623*	*0.584*	*0.548*	*0.513*
9.0	*0.790*	*0.740*	*0.694*	*0.651*	*0.610*	*0.572*	*0.536*	*0.503*	*0.471*	*0.442*

[1] The chronic water quality criteria for total ammonia for waters where freshwater fish in early life stages are absent were calculated using the following equation, which may also be used to calculate unlisted values:

Chronic water quality criteria for ammonia (fish in early life stages absent) =

$$\left[\frac{0.0577}{\left(1+10^{7.688-pH}\right)}+\frac{2.487}{\left(1+10^{pH-7.688}\right)}\right] x\ 1.45\ x\left[10^{0.028x(25-MAX(T,7))}\right]$$ ***where:***

T=°C

x means multiplication

MAX means the greater of the two values separated by the comma

[2] At 15°C and above, the criteria for waters where freshwater fish in early life stages are absent is the same as the criteria for waters where freshwater fish in early life stages may be present.

NOTES FOR TABLES 1, 2 AND 3:

- pH and temperature are field measurements that must be taken at the same time and location as the water sample destined for the laboratory analysis of ammonia.

- If the field-measured pH or the temperature values, or both, fall between the tabular values set forth in this section, the field-measured values or temperature values, as appropriate, must be rounded according to standard rounding procedures to the nearest tabular value to determine the applicable ammonia standard, or the equations provided in this section may be used to calculate unlisted values.

Sec. 4. NAC 445A.070 is hereby amended to read as follows:

445A.070 As used in NAC 445A.070 to 445A.348, inclusive, ***and sections 2 and 3 of this regulation,*** unless the context otherwise requires, the words and terms defined in NAC 445A.071 to 445A.116, inclusive, ***and section 2 of this regulation*** have the meanings ascribed to them in those sections.

Sec. 5. NAC 445A.119 is hereby amended to read as follows:

445A.119 The water quality criteria for designated beneficial uses for the various waters of the state are in the following table. The criteria are water quality characteristics based upon

available scientific and technical information and are to be used as guidelines in establishing water quality standards.

WATER QUALITY CRITERIA FOR DESIGNATED BENEFICIAL ~~[USES[2]]~~ *USES[4]*

Beneficial Uses		Agricultural Use		Aquatic Life Cold Water		Aquatic Life Warm Water						
Parameter		Irrigation	Watering of Livestock	Propa-gation	Put & Take	Propa-gation	Put & Take	~~[Water Contact Recreation]~~ *Recreation involving contact with the water*	~~[Non-Contact Recreation]~~ *Recreation not involving contact with the water*	Municipal or Domestic Supply	Industrial Supply ~~[Supply]~~	Propa-gation of Wildlife
Temperature °C		x	x	<----- Site Specific Determination [a,b] --->				~~[15-34 [a]]~~ *10-35 [a]*	x	x	x	x
pH Units Single Value		4.5-9.0 [a] ~~[,b]~~	5.0-9.0 [b]	6.5-9.0 ~~[b]~~ *[a]*	6.5-9.0 ~~[b]~~ *[a]*	6.5-9.0 ~~[b]~~ *[a]*	6.5-9.0 ~~[b]~~ *[a]*	6.5- ~~[8.3 [a]]~~ *9.0 [a]*	x	5.0-9.0 *[a]*	3.0-11.7 ~~[~~	~~[7.0-9.2 [a]]~~ *6.5-9.0 [a]*
Dissolved Oxygen Single Value-mg/l	>	x	Aerobic [b]	5.0 ~~[b]~~ *[a]*	5.0 ~~[b]~~ *[a]*	5.0 ~~[b]~~ *[a]*	5.0 ~~[b]~~ *[a]*	Aerobic [b]	Aerobic [b]	Aerobic [b]		Aerobic [b]
Chlorides Single Value-mg/l	<	y [a]	1500 [f]	~~[x]~~ *230[c]*	~~[x]~~ *230[c]*	~~[x]~~ *230[c]*	~~[x]~~ *230[c]*	x	x	~~[250/400 [e]]~~ *250 [d]/400 [c]*		1500 [f]
Total Phosphates as P Single Value-mg/l		x	x	<---------- Site Specific Determination ~~[b,e]~~ *[a]* ---------->							x	x
Nitrates as N Single Value-mg/l	<	x	100 ~~[a]~~ *[b]*	y ~~[b]~~ *[a]*	x	90 ~~[b]~~ *[a]*	90 ~~[b]~~ *[a]*	x	x	10 ~~[b,e]~~ *[a]*	x	100 ~~[a]~~ *[b]*
Nitrites as N Single Value-mg/l	<	x	10 ~~[a]~~ *[b]*	~~[0.06[b]]~~	~~[x]~~	~~[x]~~ *5 [a]*	~~[x]~~ *5 [a]*	x	x	1.0 [a] ~~[b]~~	x	10 ~~[a]~~ *[b]*

Beneficial Uses		Agricultural Use		Aquatic Life								
				Cold Water		Warm Water						
Parameter		Irrigation	Watering of Livestock	Propa-gation	Put & Take	Propa-gation	Put & Take	~~[Water Contact Recreation]~~ ***Recreation involving contact with the water***	~~[Non-Contact Recreation]~~ ***Recreation not involving contact with the water***	Municipal or Domestic Supply	Industrial Supply ~~[Supply]~~	Propa-gation of Wildlife
				0.06[a]	***0.06[a]***							
Total Nitrogen as N Single Value-mg/l		x	x	<---------- Site Specific Determination ~~[b,e]~~ [a] ---------->							x	x
~~[Un-ionized Ammonia as NH 3 Single Value-mg/l~~	~~<~~	~~x~~	~~x~~	~~0.02 [b,e]~~	~~<Site Specific Determination>~~			~~x~~	~~x~~	~~0.5 (Total NH_3-N) [b]~~	~~x~~	~~x]~~
Total Ammonia as N Single Value-mg/l	<	***x***	***x***	***<------ Site Specific Determination (See Footnote 1) ----------> Freshwater criteria are pH and temperature dependent***				***x***	***x***	***0.5 [b]***	***x***	***x***
Total Dissolved Solids Single Value-mg/l	<	~~[x]~~ ***500-1000 [a]***	3000 ~~[a]~~ [b]	x	x	x	x	x	x	~~[500/1000 [e]]~~ ***500 [a]/1000 [d]***	x	x
Color (PT-CO), Single Value	<	x	x	x	x	x	x	x	x	75 [b]	x	x
Turbidity, Single Value-NTU	<	x	x	10 ~~[d]~~ [e]	10 ~~[d]~~ [e]	50 ~~[d]~~ [e]	50 ~~[d]~~ [e]	x	x	y ~~[b]~~ [a]	x	x
Fecal Coliform (MF/100ml) Geometric Mean	<	***x***	***x***	***x***	***x***	***x***	***x***	~~[200/400 [b]]~~ See Footnote ~~[1]~~ ***2 200 [b]***	~~[1000/2000 d]~~ ***1000 [e]***	***x***	***x***	***x***
Single Value	<	1000 ~~[a]~~ [b]	1000 ~~[a]~~ [b]	x	x	x	x	***400 [b]***	***2000 [e]***	2000 ~~[a]~~ [b]	x	1000 ~~[a]~~ [b]

Beneficial Uses		Agricultural Use		Aquatic Life								
				Cold Water		Warm Water						
Parameter		Irrigation	Watering of Livestock	Propa-gation	Put & Take	Propa-gation	Put & Take	~~[Water Contact Recreation]~~ ***Recreation involving contact with the water***	~~[Non-Contact Recreation]~~ ***Recreation not involving contact with the water***	Municipal or Domestic Supply	Industrial Supply ~~[Supply]~~	Propa-gation of Wildlife
E. Coli (No./100ml)								***See***	***Footnote 3***			
Geometric Mean	***<***	***x***	***x***	***x***	***x***	***x***	***x***	***126 [a]***	***630 [a]***	***x***	***x***	***x***
Single Value	***<***	***x***	***x***	***x***	***x***	***x***	***x***	***235-576 [a]***	***x***	***x***	***x***	***x***
Alkalinity as $CaCO_3$ Single Value-mg/l		x	x	Less than 25% change from natural conditions [a] ~~[c]~~				x	x	x	x	30-130 ~~[a]~~ [b]
Suspended Solids Single Value-mg/l	<	x	x	25-80 ~~[a]~~ [b]	25-80 ~~[a]~~ [b]	25-80 ~~[a]~~ [b]	25-80 ~~[a]~~ [b]	x	x	x	x	x
Sulfate Single Value-mg/l	<	x	x	x	x	x	x	x	x	~~[250 [b,c]/500 [c]]~~ ***250 [d]/500 [d]***	x	x

FOOTNOTES AND REFERENCES

< means less than

> means greater than

x means a specific recommendation has not been developed.

y means the cited reference recommended no value be established.

(1) ***U.S. Environmental Protection Agency, Pub. No. EPA 822-R-99-014, 1999 Update of Ambient Water Quality Criteria for Ammonia (December 1999). Office of Water, Washington, D.C. The water quality criteria for ammonia relating to aquatic life are specified in section 3 of this regulation.***

(2) Based on a minimum of five samples taken over a 30-day period, the fecal coliform bacterial level must not exceed a log 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.

~~[(2)]~~ ***(3) The recommended water quality criteria for E. Coli requires that the geometric mean calculated over an annual basis not exceed the criteria and that the single sample maximum be met for a water body to be fully supportive of its intended use. The single sample maximum value for E. Coli for recreation involving contact with the water varies depending on the degree of use. For recreation not involving contact with the water, the levels for E. Coli should not exceed 5 times the Environmental Protection Agency's recommended geometric mean water quality criteria for bacteria.***

(4) The table is not all-inclusive. As the need arises and data becomes available, appropriate revisions and additions will be made.

a. ***U.S. Environmental Protection Agency, Pub. No. EPA 440/5-86-001, Quality Criteria for Water 1986 (The Gold Book). Office of Water, Washington, D.C.***

b. National Academy of Sciences, Water Quality Criteria (Blue Book) (1972).

~~[b.]~~ ***c.*** U.S. Environmental Protection Agency, ~~[Pub. No. EPA 440/9-76-023, Quality Criteria for Water (1976). Office of Water and Hazardous Materials, Washington, D.C.~~

~~c.]~~ ***"National Recommended Water Quality Criteria," set forth in volume 63 of the Federal Register at pages 68353 et seq., December 10, 1998.***

d. Nevada Division of Health, ~~[Water Supply Regulation, Part I, Water Quality Standards, Monitoring, Record Keeping and Reporting (1977). State Board of Health, Carson City, Nevada.~~

~~d.]~~ ***Bureau of Health Protection Services, NAC 445A.455, "Secondary standards: General requirements; public notice."***

e. Report of the Commission on Water Quality Criteria (FWPCA) (Green Book) (1968).

~~e. American Fisheries Society, Water Quality Section, A Review of the EPA Red Book; Quality Criteria for Water (1979).~~

f. McKee and Wolf, California State Water Resources Control Board, Water Quality Criteria (1963).

Sec. 6. NAC 445A.147 is hereby amended to read as follows:

445A.147

STANDARDS OF WATER QUALITY

Carson River

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

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C- Maximum ΔT[a]	 $\Delta T = 0°C$	Nov.-May: ≤13°C June: ≤17°C July: ≤21°C Aug.-Oct.: ≤22°C $\Delta T \leq 2°C$	Aquatic life[b] and ~~[water contact recreation.]~~ ***recreation involving contact with the water.***

pH Units	7.4 - 8.4 --	S.V.: 6.5 - 9.0 ΔpH: ±0.5 Max.	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life, irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	A-Avg.: ≤.016 S.V.: ≤.033	A-Avg.: ≤0.10	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	A-Avg.: ≤0.4 S.V.: ≤0.5	Nitrate S.V.: ≤10 Nitrite S.V.: ≤.06 ~~Ammonia S.V.: ≤.02 (un-ionized)~~	Aquatic life[b], municipal or domestic supply[b], ~~[water contact recreation, stock watering, wildlife propagation and noncontact recreation.]~~ ***recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***e***	***Aquatic life[b].***
Dissolved Oxygen – mg/l	-- --	S.V.: Nov.-May: ≥6.0 Jun.-Oct.: ≥5.0	Aquatic life[b], ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***

Suspended Solids - mg/l	A-Avg.: ≤15 --	S.V.: ≤25	Aquatic life[b].
Turbidity - NTU	A-Avg.: ≤3 S.V.: ≤5	S.V.: ≤10	Aquatic life[b] and municipal or domestic supply.
Color – PCU	d	S.V.: ≤75	Municipal or domestic supply[b].
Total Dissolved Solids - mg/l	A-Avg.: ≤70 S.V.: ≤95	A-Avg.: ≤500	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Chlorides - mg/l	A-Avg.: ≤3 S.V.: ≤5	S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation,]~~ ***propagation of wildlife,*** irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Sulfate - mg/l	-- S.V.: ≤4	S.V.: ≤250	Municipal or domestic supply[b].
Sodium - SAR	A-Avg.: ≤1	A-Avg.: ≤8	Irrigation[b] and municipal or domestic supply.
Alkalinity (as $CaCO_3$) - mg/l	-- --	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform- No./100 ml	A.G.M.: ≤105 --	≤200/400[c]	~~[Water contact recreation[b], noncontact recreation,]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***

E. Coli *(No./100 ml)* *Annual Geometric* *Mean* *Single Value*	 *--* *--*	 *≤126* *≤410*	*Recreation involving contact with the water[b] and recreation not involving contact with the water.*

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. 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 ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 7. NAC 445A.148 is hereby amended to read as follows:

445A.148

STANDARDS OF WATER QUALITY

Carson River

Control Point at Bryant Creek near the state line. The limits of this table apply only to Bryant Creek near the state line.

	REQUIREMENTS		

PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C- Maximum ΔT[a]	 ΔT = 0°C	Nov.-May: ≤13°C June: ≤17°C July: ≤21°C Aug.-Oct.: ≤22°C ΔT ≤2°C	Aquatic life[b] and ~~[water contact recreation.]~~ ***recreation involving contact with the water.***
pH Units	-- --	S.V.: 6.5 - 9.0 ΔpH: ±0.5 Max.	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life, irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	A-Avg.: ≤.036 S.V.: ≤.05	A-Avg.: ≤0.10	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	A-Avg.: ≤0.6 S.V.: ≤1.0	Nitrate S.V.: ≤10 Nitrite S.V.: ≤.06 ~~[Ammonia S.V.: ≤.02 (un-ionized)]~~	Aquatic life[b], municipal or domestic supply[b], ~~[water contact recreation, stock watering, wildlife propagation and noncontact recreation.]~~ ***recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water.***

Total Ammonia (as N) mg/l	***--***	***e***	***Aquatic life[b].***
Dissolved Oxygen - mg/l	-- --	S.V.: Nov.-May: ≥6.0 Jun.-Oct.: ≥5.0	Aquatic life[b], ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Suspended Solids - mg/l	-- --	S.V.: ≤25	Aquatic life[b].
Turbidity - NTU	-- --	S.V.: ≤10	Aquatic life[b] and municipal or domestic supply.
Color - PCU	d	S.V.: ≤75	Municipal or domestic supply[b].
Total Dissolved Solids - mg/l	A-Avg.: ≤375 S.V.: ≤420	A-Avg.: ≤500	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Chlorides - mg/l	A-Avg.: ≤6 S.V.: ≤7	S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation,]~~ ***propagation of wildlife,*** irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Sulfate - mg/l	-- --	S.V.: ≤250	Municipal or domestic supply[b].
Sodium - SAR	A-Avg.: ≤1	A-Avg.: ≤8	Irrigation[b] and municipal or domestic supply.

Alkalinity (as $CaCO_3$) - mg/l	-- --	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform- No./100 ml	A.G.M.: ≤50 S.V.: ≤90	≤200/400[c]	~~[Water contact recreation[b], noncontact recreation.]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli ***(No./100 ml)*** ***Annual Geometric Mean*** ***Single Value***	 ***--*** ***--***	 ***≤126*** ***≤410***	***Recreation involving contact with the water[b] and recreation not involving contact with the water.***

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. 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 ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 8. NAC 445A.149 is hereby amended to read as follows:

445A.149

STANDARDS OF WATER QUALITY

Carson River

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

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C- Maximum ΔT[a]	 ΔT = 0°C	Nov.-May: ≤13°C June: ≤17°C July: ≤21°C Aug.-Oct.: ≤22°C ΔT ≤2°C	Aquatic life[b] and ~~[water contact recreation.]~~ ***recreation involving contact with the water.***
PH Units	-- --	S.V.: 6.5 - 9.0 ΔpH: ±0.5 Max.	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life, irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	A-Avg.: ≤.03 S.V.: ≤.065	A-Avg.: ≤0.10	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: ≤0.5 S.V.: ≤1.1	Nitrate S.V.: ≤10 Nitrite S.V.: ≤.06 ~~[Ammonia S.V.: ≤.02 (un-ionized)]~~	Aquatic life[b], municipal or domestic supply[b], ~~[water contact recreation, stock watering, wildlife propagation and noncontact recreation.]~~ ***recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***e***	***Aquatic life[b].***
Dissolved Oxygen - mg/l	-- --	S.V.: Nov.-May: ≥6.0 Jun.-Oct.: ≥5.0	Aquatic life[b], ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Suspended Solids - mg/l	-- --	S.V.: ≤25	Aquatic life[b].
Turbidity - NTU	A-Avg.: ≤5 S.V.: ≤8	S.V.: ≤10	Aquatic life[b] and municipal or domestic supply.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Color - PCU	d	S.V.: ≤75	Municipal or domestic supply[b].
Total Dissolved Solids - mg/l	A-Avg.: ≤145 S.V.: ≤185	A-Avg.: ≤500	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Chlorides - mg/l	A-Avg.: ≤3 S.V.: ≤5	S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation,]~~ ***propagation of wildlife,*** irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Sulfate - mg/l	-- S.V.: ≤3	S.V.: ≤250	Municipal or domestic supply[b].
Sodium - SAR	A-Avg.: ≤2	A-Avg.: ≤8	Irrigation[b] and municipal or domestic supply.
Alkalinity (as $CaCO_3$) - mg/l	-- --	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform-No./100 ml	A.G.M.: ≤40 S.V.: ≤60	≤200/400[c]	~~[Water contact recreation[b], noncontact recreation,]~~ ***Recreation involving contact with the water, recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
E. Coli			***Recreation involving contact with the water[b] and***
(No./100 ml)			***recreation not involving contact with the water.***
Annual Geometric			
Mean	***--***	***≤126***	
Single Value	***--***	***≤410***	

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. 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 ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 9. NAC 445A.150 is hereby amended to read as follows:

445A.150

STANDARDS OF WATER QUALITY

Carson River

Control Point for East Fork at Highway 395, South of Gardnerville (Riverview). The limits of this table apply from Riverview Mobile Home Park to the state line.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C- Maximum ΔT^a	 $\Delta T = 0°C$	Nov.-May: ≤13°C June: ≤17°C July: ≤21°C Aug.-Oct.: ≤22°C $\Delta T \leq 2°C$	Aquatic life[b] and ~~[water contact recreation.]~~ ***recreation involving contact with the water.***
pH Units	7.5 - 8.6 --	S.V.: 6.5 - 9.0 ΔpH: ±0.5 Max.	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life, irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	-- --	A-Avg.: ≤0.10	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: ≤0.4 S.V.: ≤0.5	Nitrate S.V.: ≤10 Nitrite S.V.: ≤.06 ~~[Ammonia S.V.: ≤.02 (un-ionized)]~~	Aquatic life[b], municipal or domestic supply[b], ~~[water contact recreation, stock watering, wildlife propagation and noncontact recreation.]~~ ***recreation involving contact with the water, watering of livestock, propagation of wildlife***

			and recreation not involving contact with the water.
Total Ammonia (as N) - mg/l	***--***	***e***	***Aquatic life[b].***
Dissolved Oxygen - mg/l	-- --	S.V.: Nov.-May: ≥6.0 Jun.-Oct.: ≥5.0	Aquatic life[b], ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Suspended Solids - mg/l	-- --	S.V.: ≤80	Aquatic life[b].
Turbidity - NTU	-- --	S.V.: ≤10	Aquatic life[b] and municipal or domestic supply.
Color - PCU	d	S.V.: ≤75	Municipal or domestic supply[b].
Total Dissolved Solids - mg/l	A-Avg.: ≤120 S.V.: ≤175	A-Avg.: ≤500	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Chlorides - mg/l	A-Avg.: ≤6 S.V.: ≤10	S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation,]~~ ***propagation of wildlife,*** irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Sulfate - mg/l	-- --	S.V.: ≤250	Municipal or domestic supply[b].

Sodium - SAR	A-Avg.: ≤2	A-Avg.: ≤8	Irrigation[b] and municipal or domestic supply.
Alkalinity (as $CaCO_3$) - mg/l	-- --	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform- No./100 ml	A.G.M.: ≤20 S.V.: ≤85	≤200/400[c]	~~[Water contact recreation[b], noncontact recreation,]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E.Coli ***(No./100 ml)*** ***Annual Geometric Mean*** ***Single Value***	 ***--*** ***--***	 ***≤126*** ***≤410***	***Recreation involving contact with the water[b] and recreation not involving contact with the water.***

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. 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 ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 10. NAC 445A.151 is hereby amended to read as follows:

445A.151

STANDARDS OF WATER QUALITY

Carson River

Control Point at the East Fork at Muller Lane. The limits of this table apply only from East Fork at Muller Lane to Highway 395, South of Gardnerville (Riverview Mobile Home Park).

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C- Maximum ΔT^a	 $\Delta T = 0°C$	Nov.-May: ≤13°C June: ≤17°C July: ≤21°C Aug.-Oct.: ≤22°C $\Delta T \leq 2°C$	Aquatic life[b] and ~~[water contact recreation.]~~ ***recreation involving contact with the water.***
pH Units	7.4 - 8.7 --	S.V.: 6.5 - 9.0 ΔpH: ±0.5 Max.	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life, irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal or domestic supply and industrial supply.
Total Phosphates	--	A-Avg.: ≤0.10	Aquatic life[b], ~~[water contact recreation[b],]~~

(as P) - mg/l	--		***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: ≤0.5 S.V.: ≤0.8	Nitrate S.V.: ≤10 Nitrite S.V.: ≤.06 ~~[Ammonia S.V.: ≤.02 (un-ionized)]~~	Aquatic life[b], municipal or domestic supply[b], ~~[water contact recreation, stock watering, wildlife propagation and noncontact recreation.]~~ ***recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***e***	***Aquatic life[b].***
Dissolved Oxygen - mg/l	-- --	S.V.: Nov.-May: ≥6.0 Jun.-Oct.: ≥5.0	Aquatic life[b], ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Suspended Solids - mg/l	-- --	S.V.: ≤80	Aquatic life[b].
Turbidity - NTU	-- --	S.V.: ≤10	Aquatic life[b] and municipal or domestic supply.
Color - PCU	d	S.V.: ≤75	Municipal or domestic supply[b].

Total Dissolved Solids - mg/l	A-Avg.: ≤180 S.V.: ≤205	A-Avg.: ≤500	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Chlorides - mg/l	A-Avg.: ≤8 S.V.: ≤10	S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation,]~~ ***propagation of wildlife,*** irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Sulfate - mg/l	-- --	S.V.: ≤250	Municipal or domestic supply[b].
Sodium - SAR	A-Avg.: ≤2	A-Avg.: ≤8	Irrigation[b] and municipal or domestic supply.
Alkalinity (as $CaCO_3$) - mg/l	-- --	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform-No./100 ml	A.G.M.: ≤50 --	≤200/400[c]	~~[Water contact recreation[b], noncontact recreation,]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli (No./100 ml) Annual Geometric Mean Single Value	***-- --***	***≤126 ≤410***	***Recreation involving contact with the water[b] and recreation not involving contact with the water.***

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. 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 ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 11. NAC 445A.152 is hereby amended to read as follows:

445A.152

STANDARDS OF WATER QUALITY

Carson River

Control Point at Genoa Lane. The limits of this table apply from Genoa Lane to the East Fork at Muller Lane and to the West Fork at the state line.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C-Maximum		Nov.-Apr: ≤13°C May-June: ≤17°C Jul.-Oct.: ≤23°C	Aquatic life[b] and ~~[water contact recreation.]~~ ***recreation involving contact with the water.***

ΔT[a]	ΔT = 0°C	ΔT ≤2°C	
pH Units	7.4 - 8.5 --	S.V.: 6.5 - 9.0 ΔpH: ±0.5 Max.	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life, irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	-- --	A-Avg.: ≤0.10	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: ≤0.8 S.V.: ≤1.3	Nitrate S.V.: ≤10 Nitrite S.V.: ≤.06 ~~[Ammonia S.V.: ≤.02 (un-ionized)]~~	Aquatic life[b], municipal or domestic supply[b], ~~[water contact recreation, stock watering, wildlife propagation and noncontact recreation.]~~ ***recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***e***	***Aquatic life[b].***
Dissolved Oxygen - mg/l	-- --	S.V.: Nov.-Apr.: ≥6.0 May-Oct.: ≥5.0	Aquatic life[b], ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~

			recreation not involving contact with the water.
Suspended Solids - mg/l	-- --	S.V.: ≤80	Aquatic life[b].
Turbidity - NTU	-- --	S.V.: ≤10	Aquatic life[b] and municipal or domestic supply.
Color - PCU	d	S.V.: ≤75	Municipal or domestic supply[b].
Total Dissolved Solids - mg/l	A-Avg.: ≤165 S.V.: ≤220	A-Avg.: ≤500	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Chlorides - mg/l	A-Avg.: ≤8 S.V.: ≤12	S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation,]~~ ***propagation of wildlife,*** irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Sulfate - mg/l	-- --	S.V.: ≤250	Municipal or domestic supply[b].
Sodium - SAR	A-Avg.: ≤2	A-Avg.: ≤8	Irrigation[b] and municipal or domestic supply.
Alkalinity (as $CaCO_3$) - mg/l	-- --	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform- No./100 ml	A.G.M.: ≤180 --	≤200/400[c]	~~[Water contact recreation[b], noncontact recreation,]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock~~

			~~watering.~~] *propagation of wildlife and watering of livestock.*
E. Coli *(No./100 ml)* *Annual Geometric Mean* *Single Value*	 *--* *--*	 *≤126* *≤410*	*Recreation involving contact with the water[b] and recreation not involving contact with the water.*

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. 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 ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 12. NAC 445A.153 is hereby amended to read as follows:

445A.153

STANDARDS OF WATER QUALITY

Carson River

Control Point at Cradlebaugh Bridge. The limits of this table apply from Cradlebaugh Bridge to Genoa Lane.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C- Maximum ΔT^a	 $\Delta T = 0°C$	Nov.-Apr: ≤13°C May-June: ≤17°C Jul.-Oct.: ≤23°C $\Delta T \leq 2°C$	Aquatic life[b] and ~~[water contact recreation.]~~ ***recreation involving contact with the water.***
pH Units	7.5 - 8.4 --	S.V.: 6.5 - 9.0 ΔpH: ±0.5 Max.	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life, irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	-- --	A-Avg.: ≤0.10	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: ≤.85 S.V.: ≤1.2	Nitrate S.V.: ≤10 Nitrite S.V.: ≤.06 ~~[Ammonia S.V.: ≤.02 (un-ionized)]~~	Aquatic life[b], municipal or domestic supply[b], ~~[water contact recreation, stock watering, wildlife propagation and noncontact recreation.]~~ ***recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water.***

Total Ammonia (as N) - mg/l	***--***	***e***	***Aquatic life[b].***
Dissolved Oxygen - mg/l	-- --	S.V.: Nov.-Apr.: ≥6.0 May-Oct.: ≥5.0	Aquatic life[b], ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Suspended Solids - mg/l	-- --	S.V.: ≤80	Aquatic life[b].
Turbidity - NTU	-- --	S.V.: ≤10	Aquatic life[b] and municipal or domestic supply.
Color - PCU	d	S.V.: ≤75	Municipal or domestic supply[b].
Total Dissolved Solids - mg/l	A-Avg.: ≤180 S.V.: ≤230	A-Avg.: ≤500	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Chlorides - mg/l	A-Avg.: ≤8 S.V.: ≤15	S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation,]~~ ***propagation of wildlife,*** irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Sulfate - mg/l	-- --	S.V.: ≤250	Municipal or domestic supply[b].
Sodium - SAR	A-Avg.: ≤2	A-Avg.: ≤8	Irrigation[b] and municipal or domestic supply.

Alkalinity (as $CaCO_3$) - mg/l	-- --	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform- No./100 ml	-- --	≤200/400[c]	~~[Water contact recreation[b], noncontact recreation.]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli ***(No./100 ml)*** ***Annual Geometric Mean*** ***Single Value***	 ***--*** ***--***	 ***≤126*** ***≤410***	***Recreation involving contact with the water[b] and recreation not involving contact with the water.***

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. 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 ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 13. NAC 445A.154 is hereby amended to read as follows:

445A.154

STANDARDS OF WATER QUALITY

Carson River

Control Point at Mexican Ditch Gage. The limits of this table apply from Mexican Ditch Gage to Highway 395, at Cradlebaugh Bridge.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C- Maximum ΔT^a	 $\Delta T = 0°C$	Nov.-Apr.: ≤13°C May-June: ≤17°C Jul.-Oct.: ≤23°C $\Delta T \leq 2°C$	Aquatic life[b] and ~~[water contact recreation.]~~ ***recreation involving contact with the water.***
pH Units	7.4 - 8.5 --	S.V.: 6.5 - 9.0 ΔpH: ±0.5 Max.	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life, irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	-- --	A-Avg.: ≤0.10	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***

Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: ≤0.8 S.V.: ≤1.3	Nitrate S.V.: ≤10 Nitrite S.V.: ≤.06 ~~[Ammonia S.V.: ≤.02 (un-ionized)]~~	Aquatic life[b], municipal or domestic supply[b], ~~[water contact recreation, stock watering, wildlife propagation and noncontact recreation.]~~ ***recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***e***	***Aquatic life[b].***
Dissolved Oxygen - mg/l	-- --	S.V.: Nov.-Apr.: ≥6.0 May-Oct.: ≥5.0	Aquatic life[b], ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Suspended Solids - mg/l	-- --	S.V.: ≤80	Aquatic life[b].
Turbidity - NTU	-- --	S.V.: ≤10	Aquatic life[b] and municipal or domestic supply.
Color - PCU	d	S.V.: ≤75	Municipal or domestic supply[b].
Total Dissolved Solids - mg/l	A-Avg.: ≤285 S.V.: ≤360	A-Avg.: ≤500	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***

Chlorides - mg/l	A-Avg.: ≤17 S.V.: ≤23	S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation,]~~ ***propagation of wildlife,*** irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Sulfate - mg/l	A-Avg.: ≤24 S.V.: ≤100	S.V.: ≤250	Municipal or domestic supply[b].
Sodium - SAR	A-Avg.: ≤2	A-Avg.: ≤8	Irrigation[b] and municipal or domestic supply.
Alkalinity (as $CaCO_3$) - mg/l	-- --	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform- No./100 ml	A.G.M.: ≤110 S.V.: ≤295	≤200/400[c]	~~[Water contact recreation[b], noncontact recreation,]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli ***(No./100 ml)*** ***Annual Geometric Mean*** ***Single Value***	 ***--*** ***--***	 ***≤126*** ***≤410***	***Recreation involving contact with the water[b] and recreation not involving contact with the water.***

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. 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 ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 14. NAC 445A.155 is hereby amended to read as follows:

445A.155

STANDARDS OF WATER QUALITY

Carson River

Control Point near New Empire. The limits of this table apply from New Empire to the Mexican Ditch Gage.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C- Maximum ΔT[a]	 ΔT = 0°C	Nov.-May: ≤18°C Jun.Oct.: ≤23°C ΔT ≤2°C	Aquatic life[b] and ~~[water contact recreation.]~~ ***recreation involving contact with the water.***
pH Units	7.4 - 8.4 --	S.V.: 6.5 - 9.0	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b],***

		ΔpH: ±0.5 Max.	***propagation of wildlife[b],*** aquatic life, irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	-- --	A-Avg.: ≤0.10	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: ≤1.3 S.V.: ≤1.7	Nitrate S.V.: ≤10 Nitrite S.V.: ≤.06 ~~[Ammonia S.V.: ≤.02 (un-ionized)]~~	Aquatic life[b], municipal or domestic supply[b], ~~[water contact recreation, stock watering, wildlife propagation and noncontact recreation.]~~ ***recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***e***	***Aquatic life[b].***
Dissolved Oxygen - mg/l	-- --	S.V.: ≥5.0	Aquatic life[b], ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Suspended Solids - mg/l	-- --	S.V.: ≤80	Aquatic life[b].

Turbidity - NTU	-- --	S.V.: ≤10	Aquatic life[b] and municipal or domestic supply.
Color - PCU	d	S.V.: ≤75	Municipal or domestic supply[b].
Total Dissolved Solids - mg/l	A-Avg.: ≤260 S.V.: ≤375	A-Avg.: ≤500	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Chlorides - mg/l	A-Avg.: ≤13 S.V.: ≤24	S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation,]~~ ***propagation of wildlife,*** irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Sulfate - mg/l	-- --	S.V.: ≤250	Municipal or domestic supply[b].
Sodium - SAR	A-Avg.: ≤2	A-Avg.: ≤8	Irrigation[b] and municipal or domestic supply.
Alkalinity (as $CaCO_3$) - mg/l	-- --	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform- No./100 ml	-- --	≤200/400[c]	~~[Water contact recreation[b], noncontact recreation,]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli			

(No./100 ml) *Annual Geometric* *Mean* *Single Value*	 *--* *--*	 *≤126* *≤410*	*Recreation involving contact with the water[b] and recreation not involving contact with the water.*

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. 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 ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 15. NAC 445A.156 is hereby amended to read as follows:

445A.156

STANDARDS OF WATER QUALITY

Carson River

Control Point at Dayton Bridge. The limits of this table apply from Dayton Bridge to New Empire.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER	WATER QUALITY STANDARDS FOR	BENEFICIAL

	QUALITY	BENEFICIAL USES	USES
Temperature °C- Maximum ΔT[a]	 ΔT = 0°C	Nov.-Mar: ≤11°C Apr.-Jun.: ≤24°C Jul.-Oct.: ≤28°C ΔT ≤2°C	Aquatic life[b] and ~~[water contact recreation.]~~ ***recreation involving contact with the water.***
~~[PH]~~ ***pH*** Units	7.5 - 8.6 --	S.V.: 6.5 - 9.0 ΔpH: ±0.5 Max.	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life, irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	-- --	A-Avg.: ≤0.1	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: ≤1.2 S.V.: ≤1.6	Nitrate S.V.: ≤10 Nitrite S.V.: ≤.1.0 ~~[Ammonia S.V.: ≤.02 (un-ionized)]~~	Aquatic life[b], municipal or domestic supply[b], ~~[water contact recreation, stock watering, wildlife propagation and noncontact recreation.]~~ ***recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	*--*	*e*	***Aquatic life[b].***

Dissolved Oxygen - mg/l	-- --	S.V.: ≥5.0	Aquatic life[b], ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Suspended Solids - mg/l	-- --	S.V.: ≤80	Aquatic life[b].
Turbidity - NTU	A-Avg.: ≤12 S.V.: ≤25	S.V.: ≤50	Aquatic life[b] and municipal or domestic supply.
Color - PCU	d	S.V.: ≤75	Municipal or domestic supply[b].
Total Dissolved Solids - mg/l	A-Avg.: ≤250 S.V.: ≤400	A-Avg.: ≤500	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Chlorides - mg/l	A-Avg.: ≤10 S.V.: ≤18	S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation,]~~ ***propagation of wildlife,*** irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Sulfate - mg/l	-- --	S.V.: ≤250	Municipal or domestic supply[b].
Sodium - SAR	A-Avg.: ≤2	A-Avg.: ≤8	Irrigation[b] and municipal or domestic supply.
Alkalinity (as $CaCO_3$) - mg/l	-- --	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***

Fecal Coliform- No./100 ml	A.G.M.: ≤50 S.V.: ≤280	≤200/400[c]	~~[Water contact recreation[b], noncontact recreation,]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli ***(No./100 ml)*** ***Annual Geometric Mean*** ***Single Value***	 ***--*** ***--***	 ***≤126*** ***≤410***	***Recreation involving contact with the water[b] and recreation not involving contact with the water.***

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. 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 ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 16. NAC 445A.157 is hereby amended to read as follows:

445A.157

STANDARDS OF WATER QUALITY

Carson River

Control Point at Weeks (Ft. Churchill). The limits of this table apply from the U.S. Highway 95 Bridge at Weeks to the Dayton Bridge.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C- Maximum ΔT[a]	 ΔT = 0°C	Nov.-Mar.: ≤11°C Apr.-Jun.: ≤24°C Jul.-Oct.: ≤28°C ΔT ≤2°C	Aquatic life[b] and ~~[water contact recreation.]~~ ***recreation involving contact with the water.***
pH Units	7.5 - 8.5 --	S.V.: 6.5 - 9.0 ΔpH: ±0.5 Max.	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life, irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	-- --	A-Avg.: ≤0.1	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: ≤0.6 S.V.: ≤1.1	Nitrate S.V.: ≤10 Nitrite S.V.: ≤.1.0 ~~[Ammonia S.V.: ≤.02~~	Aquatic life[b], municipal or domestic supply[b], ~~[water contact recreation, stock watering, wildlife propagation and noncontact recreation.]~~

		~~(un-ionized)]~~	***recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***e***	***Aquatic life[b].***
Dissolved Oxygen - mg/l	-- --	S.V.: ≥5.0	Aquatic life[b], ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Suspended Solids - mg/l	-- --	S.V.: ≤80	Aquatic life[b].
Turbidity - NTU	A-Avg.: ≤25 --	S.V.: ≤50	Aquatic life[b] and municipal or domestic supply.
Color - PCU	d	S.V.: ≤75	Municipal or domestic supply[b].
Total Dissolved Solids - mg/l	A-Avg.: ≤250 S.V.: ≤380	A-Avg.: ≤500	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Chlorides - mg/l	A-Avg.: ≤10 S.V.: ≤18	S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation,]~~ ***propagation of wildlife,*** irrigation and ~~[stock watering.]~~ ***watering of livestock.***

Sulfate - mg/l	A-Avg.: ≤100 S.V.: ≤140	S.V.: ≤250	Municipal or domestic supply[b].
Sodium - SAR	A-Avg.: ≤2	A-Avg.: ≤8	Irrigation[b] and municipal or domestic supply.
Alkalinity (as $CaCO_3$) - mg/l	-- --	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform- No./100 ml	A.G.M.: ≤90 S.V.: ≤240	≤200/400[c]	~~[Water contact recreation[b], noncontact recreation.]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli ***(No./100 ml)*** ***Annual Geometric Mean*** ***Single Value***	 ***--*** ***--***	 ***≤126*** ***≤410***	***Recreation involving contact with the water[b] and recreation not involving contact with the water.***

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. 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 ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 17. NAC 445A.158 is hereby amended to read as follows:

445A.158

STANDARDS OF WATER QUALITY

Carson River

Control Point at Lahontan Dam. The limits of this table apply from Lahontan Dam to the U.S. Highway 95 bridge at Weeks (Ft. Churchill).

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C- Maximum ΔT[a]	 ΔT = 0°C	Nov.-Mar.: ≤11°C Apr.-Jun.: ≤24°C Jul.-Oct.: ≤28°C ΔT ≤2°C	Aquatic life[b] and ~~[water contact recreation.]~~ ***recreation involving contact with the water.***
~~[PH]~~ ***pH*** Units	-- --	S.V.: ~~[7.0 – 8.3]~~ ***6.5-9.0*** ΔpH: ±0.5 Max.	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildife[b],*** aquatic life, irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal or domestic supply and industrial supply.

Total Phosphates (as P) - mg/l	-- --	S.V.: ≤0.06	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: ≤1.3 S.V.: ≤1.7	Nitrate S.V.: ≤10 Nitrite S.V.: ≤.1.0 ~~[Ammonia S.V.: ≤.02 (un-ionized)]~~	Aquatic life[b], municipal or domestic supply[b], ~~[water contact recreation, stock watering, wildlife propagation and noncontact recreation.]~~ ***recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***e***	***Aquatic life[b].***
Dissolved Oxygen - mg/l	-- --	S.V.: ≥5.0	Aquatic life[b], ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Suspended Solids - mg/l		S.V.: ≤25	Aquatic life[b].
Turbidity - NTU	A-Avg.: ≤15 S.V.: ≤27	S.V.: ≤50	Aquatic life[b] and municipal or domestic supply.

Color - PCU	d	S.V.: ≤75	Municipal or domestic supply[b].
Total Dissolved Solids - mg/l	A-Avg.: ≤175 S.V.: ≤225	A-Avg.: ≤500	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Chlorides - mg/l	A-Avg.: ≤9 S.V.: ≤15	S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation,]~~ ***propagation of wildlife,*** irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Sulfate - mg/l	A-Avg.: ≤35 S.V.: ≤50	S.V.: ≤250	Municipal or domestic supply[b].
Sodium - SAR	A-Avg.: ≤2	A-Avg.: ≤8	Irrigation[b] and municipal or domestic supply.
Alkalinity (as $CaCO_3$) - mg/l	-- --	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform- No./100 ml	A.G.M.: ≤25 S.V.: ≤75	≤200/400[c]	~~[Water contact recreation[b], noncontact recreation,]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli (No./100 ml) ***Annual Geometric Mean*** ***Single Value***	 ***--*** ***--***	 ***≤126*** ***≤235***	***Recreation involving contact with the water[b] and recreation not involving contact with the water.***

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. 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 ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 18. 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 As designated in NAC 445A.159 (Most stringent use listed first)
Temperature Single Value	July-Oct.: ≤22°C $\Delta T = 0°C^{a}$	Nov.-Apr.: ≤13°C May-Jun.: ≤17°C	Propagation of aquatic life and recreation involving contact with the water.

		Jul.-Oct.: ≤23°C ΔT ≤2°C[a]	
pH Single Value	--	Within range 6.5-9.0 SU ΔpH: ±0.5 SU Max.	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.
Total Phosphates (as P) Annual Average	-- --	 ≤0.1 mg/l	Propagation of aquatic life, recreation involving contact with the water, municipal or domestic supply, or both, and recreation not involving contact with the water.
Nitrogen Species (as N) Annual Average Single Value Single Value ~~[Single Value]~~	Total Nitrogen ≤0.6 mg/l ≤0.9 mg/l	 Nitrate: ≤10 mg/l Nitrite: ≤.06 mg/l ~~[Ammonia: ≤.02 mg/l~~ ~~(un-ionized)]~~	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.
Total Ammonia (as N) - mg/l	***--***	***c***	***Propagation of aquatic life.***
Dissolved Oxygen Single Value	-- --	Nov.-May: ≥6.0 mg/l Jun.-Oct.: ≥5.0 mg/l	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.

Suspended Solids Annual Average Single Value	≤60 mg/l	≤80 mg/l	Propagation of aquatic life.
Turbidity Single Value	--	b	Propagation of aquatic life and municipal or domestic supply, or both.
Color Single Value	≤26 PCU	≤75 PCU	Municipal or domestic supply, or both, and propagation of aquatic life.
Total Dissolved Solids Annual Average Single Value	≤165 mg/l ≤220 mg/l	≤500 mg/l	Municipal or domestic supply, or both, irrigation and watering of livestock.
Chloride Annual Average Single Value	≤15 mg/l ≤20 mg/l	≤250 mg/l	Municipal or domestic supply, or both, propagation of wildlife, irrigation and watering of livestock.
Sulfate Single Value	≤25 mg/l	≤250 mg/l	Municipal or domestic supply, or both.
Sodium Adsorption Ratio Annual Average	--	≤8	Irrigation and municipal or domestic supply, or both.
Alkalinity (as $CaCO_3$)	--	less than 25% change from natural conditions	Propagation of aquatic life and propagation of wildlife.

~~[Escherichia coli]~~ ***E. Coli*** ***(No./100 ml)*** Annual Geometric Mean Single Value	 -- --	 ~~[126 MF/100 ml~~ ~~235 MF/100 ml]~~ ***≤126*** ***≤410***	Recreation involving contact with the water ~~[,]~~ ***and*** recreation not involving contact with the water ***.*** ~~[, municipal or domestic supply, or both, irrigation 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. Increase in turbidity must not be more than 10 NTU above natural conditions.

c. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 19. NAC 445A.161 is hereby amended to read as follows:

445A.161

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 As designated in NAC 445A.159 (Most stringent use listed first)
Temperature		Nov.-Apr.: ≤13°C	Propagation of aquatic life and recreation

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES As designated in NAC 445A.159 (Most stringent use listed first)
Single Value	$\Delta T = 0°C$[a]	May-Jun.: ≤17°C Jul.-Oct.: ≤23°C $\Delta T \leq 2°C$[a]	involving contact with the water.
pH Single Value	--	Within range 6.5-9.0 SU ΔpH: ±0.5 SU Max.	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.
Total Phosphates (as P) Annual Average Single Value	 -- --	 ≤0.05 mg/l ≤0.10 mg/l	Propagation of aquatic life, recreation involving contact with the water, municipal or domestic supply, or both, and recreation not involving contact with the water.
Nitrogen Species (as N) Annual Average Single Value Single Value ~~[Single Value]~~	Total Nitrogen ≤0.6 mg/l ≤1.0 mg/l	 Nitrate: ≤10 mg/l Nitrite: ≤.06 mg/l ~~[Ammonia: ≤.02 mg/l (un-ionized)]~~	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.
Total Ammonia (as N) - mg/l	***--***	***d***	***Propagation of aquatic life.***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES As designated in NAC 445A.159 (Most stringent use listed first)
Dissolved Oxygen Single Value	-- --	Nov.-May: ≥6.0 mg/l June-Oct.[b]: ≥5.0 mg/l	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.
Suspended Solids Annual Average Single Value	≤0.6 mg/l ≤9.0 mg/l	≤25 mg/l	Propagation of aquatic life.
Turbidity Annual Average Single Value	≤3.0 NTU ≤5.0 NTU	c	Propagation of aquatic life and municipal or domestic supply, or both.
Color Single Value	≤21 PCU	≤75 PCU	Municipal or domestic supply, or both, and propagation of aquatic life.
Total Dissolved Solids Annual Average Single Value	≤105 mg/l ≤120 mg/l	≤500 mg/l	Municipal or domestic supply, or both, irrigation and watering of livestock.
Chloride Annual Average Single Value	≤7 mg/l ≤10 mg/l	-- ≤250 mg/l	Municipal or domestic supply, or both, propagation of wildlife, irrigation and watering of livestock.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES As designated in NAC 445A.159 (Most stringent use listed first)
Sulfate Single Value	 ≤25 mg/l	 ≤250 mg/l	Municipal or domestic supply, or both.
Sodium Adsorption Ratio Annual Average	--	 ≤8	Irrigation, and municipal or domestic supply, or both.
Alkalinity (as $CaCO_3$)	--	less than 25% change from natural conditions	Propagation of aquatic life and propagation of wildlife.
~~[Escheriehia coli]~~ ***E. Coli*** ***(No./100 ml)*** Annual Geometric Mean Single Value	 -- --	 ~~[126 MF/100 ml 235 MF/100 ml]~~ ***≤126 ≤235***	Recreation involving contact with the water ~~[,]~~ ***and*** recreation not involving contact with the water ***.*** ~~[, municipal or domestic supply, or both, irrigation 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 dissolved oxygen standard from June to October applies only to the epilimnion.

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

d. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 20. 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 As designated in NAC 445A.159 (Most stringent use listed first)
Temperature Single Value	$\Delta T = 0°C$[a]	Nov.-Apr.: ≤13°C May-Jun.: ≤17°C Jul.-Oct.: ≤23°C $\Delta T \leq 2°C$[a]	Propagation of aquatic life and recreation involving contact with the water.
pH Single Value	-- --	Within range 6.5 - 9.0 SU ΔpH: ±0.5 SU Max.	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.
Total Phosphates (as P) Annual Average Single Value	≤0.07 mg/l ≤0.10 mg/l	≤0.1 mg/l	Propagation of aquatic life, recreation involving contact with the water, municipal or domestic supply, or both, and recreation not involving contact with the water.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES As designated in NAC 445A.159 (Most stringent use listed first)
Nitrogen Species (as N) Annual Average Single Value Single Value ~~[Single Value]~~	Total Nitrogen ≤0.6 mg/l ≤1.0 mg/l	Nitrate: ≤10 mg/l Nitrite: ≤.06 mg/l ~~[Ammonia: ≤.02 mg/l (un-ionized)]~~	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.
Total Ammonia (as N) - mg/l	***--***	***c***	***Propagation of aquatic life.***
Dissolved Oxygen Single Value	-- --	Nov.-May: ≥6.0 mg/l Jun.-Oct.: ≥5.0 mg/l	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.
Suspended Solids Single Value	--	≤80 mg/l	Propagation of aquatic life.
Turbidity Single Value	--	b	Propagation of aquatic life and municipal or domestic supply, or both.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES As designated in NAC 445A.159 (Most stringent use listed first)
Color Single Value	--	≤75 PCU	Municipal or domestic supply, or both, and propagation of aquatic life.
Total Dissolved Solids Annual Average Single Value	≤175 mg/l ≤260 mg/l	≤500 mg/l	Municipal or domestic supply, or both, irrigation and watering of livestock.
Chloride Annual Average Single Value	≤16 mg/l ≤30 mg/l	-- ≤250 mg/l	Municipal or domestic supply, or both, propagation of wildlife, irrigation and watering of livestock.
Sulfate Single Value	--	≤250 mg/l	Municipal or domestic supply, or both.
Sodium Adsorption Ratio Annual Average	--	≤8	Irrigation, and municipal or domestic supply, or both.
Alkalinity (as $CaCO_3$)	--	less than 25% change from natural conditions	Propagation of aquatic life and propagation of wildlife.
~~[Escherichia coli]~~			Recreation involving contact with the water ~~[,]~~

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES As designated in NAC 445A.159 (Most stringent use listed first)
E. Coli ***(No./100 ml)*** Annual Geometric Mean Single Value	-- --	~~[126 MF/100 ml 235 MF/100 ml]~~ ***≤126 ≤410***	***and*** recreation not involving contact with the water ***.*** ~~[, municipal or domestic supply, or both, irrigation 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. Increase in turbidity must not be more than 10 NTU above natural conditions.

c. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 21. 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 As designated in NAC 445A.159 (Most stringent use listed first)
Temperature Single Value	$\Delta T = 0°C$[a]	Nov.-Apr.: ≤13°C May-Jun.: ≤17°C Jul.-Oct.: ≤23°C $\Delta T \leq 2°C$[a]	Propagation of aquatic life and recreation involving contact with the water.
pH Single Value	--	Within range 6.5 - 9.0 SU ΔpH: ±0.5 SU Max.	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.
Total Phosphates (as P) Annual Average Single Value	≤0.15 mg/l	≤0.10 mg/l	Propagation of aquatic life, recreation involving contact with the water, municipal or domestic supply, or both, and recreation not involving contact with the water.
Nitrogen Species (as N) Annual Average Single Value ~~[Single Value]~~	Total Nitrogen ≤1.0 mg/l ≤1.2 mg/l	Nitrate: ≤10 mg/l Nitrite: ≤.06 mg/l ~~[Ammonia: ≤.02 mg/l (un-ionized)]~~	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.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES As designated in NAC 445A.159 (Most stringent use listed first)
Total Ammonia (as N) - mg/l	***--***	***c***	***Propagation of aquatic life.***
Dissolved Oxygen Single Value	-- --	Nov.-May: ≥6.0 mg/l Jun.-Oct.: ≥5.0 mg/l	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.
Suspended Solids Single Value	--	≤80 mg/l	Propagation of aquatic life.
Turbidity Single Value	--	b	Propagation of aquatic life and municipal or domestic supply, or both.
Color Single Value	≤46 PCU	≤75 PCU	Municipal or domestic supply, or both, and propagation of aquatic life.
Total Dissolved Solids Annual Average Single Value	≤330 mg/l ≤425 mg/l	≤500 mg/l	Municipal or domestic supply, or both, irrigation and watering of livestock.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES As designated in NAC 445A.159 (Most stringent use listed first)
Chloride Annual Average Single Value	 ≤22 mg/l ≤28 mg/l	 -- ≤250 mg/l	Municipal or domestic supply, or both, propagation of wildlife, irrigation and watering of livestock.
Sulfate Single Value	 ≤74 mg/l	 ≤250 mg/l	Municipal or domestic supply, or both.
Sodium Adsorption Ratio Annual Average	 --	 ≤8	Irrigation and municipal or domestic supply, or both.
Alkalinity (as $CaCO_3$)	 --	less than 25% change from natural conditions	Propagation of aquatic life and propagation of wildlife.
~~[Escherichia coli]~~ ***E. Coli*** ***(No./100 ml)*** Annual Geometric Mean Single Value	 -- --	 ~~[126 MF/100 ml~~ ~~235 MF/100 ml]~~ ***≤126*** ***≤410***	Recreation involving contact with the water ~~[,]~~ ***and*** recreation not involving contact with the water ***.*** ~~[, municipal or domestic supply, or both, irrigation 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. Increase in turbidity must not be more than 10 NTU above natural conditions.

c. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 22. 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 As designated in NAC 445A.159 (Most stringent use listed first)
Temperature Single Value	$\Delta T = 0°C$[a]	Nov.-Apr.: ≤13°C May-Jun.: ≤17°C Jul.-Oct.: ≤23°C $\Delta T \leq 2°C$[a]	Propagation of aquatic life and recreation involving contact with the water.
pH Single Value	--	Within range 6.5 - 9.0 SU ΔpH: ±0.5 SU Max.	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.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES As designated in NAC 445A.159 (Most stringent use listed first)
Total Phosphates (as P) Annual Average	-- --	≤0.1 mg/l	Propagation of aquatic life, recreation involving contact with the water, municipal or domestic supply, or both, and recreation not involving contact with the water.
Nitrogen Species (as N) Annual Average Single Value Single Value ~~[Single Value]~~	Total Nitrate ≤0.25 mg/l ≤0.45 mg/l	Nitrate: ≤10 mg/l Nitrite: ≤.06 mg/l ~~[Ammonia: ≤.02 mg/l (un-ionized)]~~	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.
Total Ammonia (as N) - mg/l	***--***	***c***	***Propagation of aquatic life.***
Dissolved Oxygen Single Value	-- --	Nov.-May: ≥6.0 mg/l Jun.-Oct.: ≥5.0 mg/l	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.
Suspended Solids			Propagation of aquatic life.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES As designated in NAC 445A.159 (Most stringent use listed first)
Single Value	≤45 mg/l	≤80 mg/l	
Turbidity Single Value	--	b	Propagation of aquatic life and municipal or domestic supply, or both.
Color Single Value	--	≤75 PCU	Municipal or domestic supply, or both, and propagation of aquatic life.
Total Dissolved Solids Annual Average Single Value	≤220 mg/l ≤300 mg/l	≤500 mg/l	Municipal or domestic supply, or both, irrigation and watering of livestock.
Chloride Annual Average Single Value	≤5 mg/l ≤7 mg/l	-- ≤250 mg/l	Municipal or domestic supply, or both, propagation of wildlife, irrigation and watering of livestock.
Sulfate Single Value	--	≤250 mg/l	Municipal or domestic supply, or both.
Sodium Adsorption Ratio Annual Average	--	≤8	Irrigation and municipal or domestic supply, or both.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES As designated in NAC 445A.159 (Most stringent use listed first)
Alkalinity (as $CaCO_3$)	--	less than 25% change from natural conditions	Propagation of aquatic life and propagation of wildlife.
~~[Escherichia coli]~~ ***E. Coli*** ***(No./100 ml)*** Annual Geometric Mean Single Value	-- --	~~[126 MF /100 ml 235 MF/100 ml]~~ ***≤126*** ***≤410***	Recreation involving contact with the water ~~[,]~~ ***and*** recreation not involving contact with the water ~~[, municipal or domestic supply, or both, irrigation 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. Increase in turbidity must not be more than 10 NTU above natural conditions.

c. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 23. 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 As designated in NAC 445A.159 (Most stringent use listed first)
Temperature Single Value	ΔT = 0°C[a]	Nov.-Apr.: ≤13°C May-Jun.: ≤17°C Jul.-Oct.: ≤23°C ΔT ≤2°C[a]	Propagation of aquatic life and recreation involving contact with the water.
pH Single Value	--	Within range 6.5 - 9.0 SU ΔpH: ±0.5 SU Max.	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.
Total Phosphates (as P) Annual Average	--	≤0.1 mg/l	Propagation of aquatic life, recreation involving contact with the water, municipal or domestic supply, or both, and recreation not involving contact with water.
Nitrogen Species (as N) Annual Average Single Value Single Value ~~[Single Value]~~	Total Nitrogen ≤0.8 mg/l ≤1.4 mg/l	Nitrate: ≤10 mg/l Nitrite: ≤.06 mg/l ~~[Ammonia: ≤.02 mg/l (un-ionized)]~~	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.

Total Ammonia (as N) - mg/l	***--***	***c***	***Propagation of aquatic life.***
Dissolved Oxygen Single Value	-- --	Nov.-May: ≥6.0 mg/l Jun.-Oct.: ≥5.0 mg/l	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.
Suspended Solids Single Value	≤30 mg/l	≤80 mg/l	Propagation of aquatic life.
Turbidity Single Value	--	b	Propagation of aquatic life and municipal or domestic supply, or both.
Color Single Value	--	≤75 PCU	Municipal or domestic supply, or both, and propagation of aquatic life.
Total Dissolved Solids Annual Average Single Value	≤175 mg/l ≤210 mg/l	≤500 mg/l	Municipal or domestic supply, or both, irrigation and watering of livestock.
Chloride Annual Average Single Value	≤5 mg/l ≤7 mg/l	-- ≤250 mg/l	Municipal or domestic supply, or both, propagation of wildlife, irrigation and watering of livestock.
Sulfate			Municipal or domestic supply, or both.

Single Value	≤26 mg/l	≤250 mg/l	
Sodium Adsorption Ratio Annual Average	≤2	≤8	Irrigation and municipal or domestic supply, or both.
Alkalinity (as $CaCO_3$)	--	less than 25% change from natural conditions	Propagation of aquatic life and propagation of wildlife.
~~[Escherichia coli]~~ ***E. Coli*** ***(No./100 ml)*** Annual Geometric Mean Single Value	-- --	~~[126 MF /100 ml 235 MF/100 ml]~~ ***≤126 ≤410***	Recreation involving contact with the water ~~[,]~~ ***and*** recreation not involving contact with the water ***.*** ~~[, municipal or domestic supply, or both, irrigation 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. Increase in turbidity must not be more than 10 NTU above natural conditions.

c. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 24. NAC 445A.1655 is hereby amended to read as follows:

445A.1655

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.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES As designated in NAC 445A.159 (Most stringent use listed first)
Temperature Single Value	$\Delta T = 0°C$[a]	Nov.-Apr.: ≤13°C May-Jun.: ≤17°C Jul.-Oct.: ≤23°C $\Delta T \leq 2°C$[a]	Propagation of aquatic life and recreation involving contact with the water.
pH Single Value	--	Within range 6.5 - 9.0 SU ΔpH: ± 0.5 SU Max.	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.
Total Phosphates (as P) Annual Average	-- --	≤0.10 mg/l	Propagation of aquatic life, recreation involving contact with the water, municipal or domestic supply, or both, and recreation not involving contact with the water.
Nitrogen Species (as N) Annual Average Single Value Single Value ~~[Single Value]~~	Total Nitrogen ≤0.9 mg/l ≤1.7mg/l	Nitrate: ≤10 mg/l Nitrite: ≤ .06 mg/l ~~[Ammonia: ≤ .02 mg/l (un-ionized)]~~	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.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES As designated in NAC 445A.159 (Most stringent use listed first)
Total Ammonia (as N) - mg/l	***--***	***c***	***Propagation of aquatic life.***
Dissolved Oxygen Single Value	--	Nov.-May: ≥6.0 mg/l June-Oct.: ≥5.0 mg/l	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.
Suspended Solids Single Value	--	≤80 mg/l	Propagation of aquatic life.
Turbidity Single Value	--	b	Propagation of aquatic life and municipal or domestic supply, or both.
Color Single Value	--	≤75 PCU	Municipal or domestic supply, or both, and propagation of aquatic life.
Total Dissolved Solids Annual Average Single Value	≤320 mg/l ≤390 mg/l	≤500 mg/l	Municipal or domestic supply, or both, irrigation and watering of livestock.
Chloride			Municipal or domestic supply, or both,

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES As designated in NAC 445A.159 (Most stringent use listed first)
Annual Average Single Value	≤13 mg/l ≤19 mg/l	≤250 mg/l	propagation of wildlife, irrigation and watering of livestock.
Sulfate Single Value	--	≤250 mg/l	Municipal or domestic supply, or both.
Sodium Adsorption Ratio Annual Average	--	≤8	Irrigation and municipal or domestic supply, or both.
Alkalinity (as $CaCO_3$)	--	less than 25% change from natural conditions	Propagation of aquatic life and propagation of wildlife.
~~[Escherichia coli]~~ ***E. Coli*** ***(No./100 ml)*** Annual Geometric Mean Single Value	-- --	~~[126 MF /100 ml~~ ~~235 MF/100 ml]~~ ***≤126*** ***≤410***	Recreation involving contact with the water ~~[,]~~ ***and*** recreation not involving contact with the water ***.*** ~~[, municipal or domestic supply, or both, irrigation 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. Increase in turbidity must not be more than 10 NTU above natural conditions.

c. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 25. 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 East Walker River at Bridge B-1475.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES As designated in NAC 445A.159 (Most stringent use listed first)
Temperature Single Value	$\Delta T = 0°C$[a]	Nov.-Apr.: ≤13°C May-Jun.: ≤17°C Jul.-Oct.: ≤23°C $\Delta T \leq 2°C$[a]	Propagation of aquatic life and recreation involving contact with the water.
pH Single Value	--	Within range 6.5 - 9.0 SU ΔpH: ±0.5 SU Max.	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.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES As designated in NAC 445A.159 (Most stringent use listed first)
Total Phosphates (as P) Annual Average Single Value	 --	 ≤0.16 mg/l ≤0.39 mg/l	Propagation of aquatic life, recreation involving contact with the water, municipal or domestic supply, or both, and recreation not involving contact with the water.
Nitrogen Species (as N) Annual Average Single Value ~~[Single Value]~~	Total Nitrogen ≤0.9 mg/l ≤1.7 mg/l	 Nitrate: ≤10 mg/l Nitrite: ≤.06 mg/l ~~[Ammonia: ≤.02 mg/l (un-ionized)]~~	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.
Total Ammonia (as N) - mg/l	***--***	***c***	***Propagation of aquatic life.***
Dissolved Oxygen Single Value	-- --	Nov.-May: ≥6.0 mg/l Jun.-Oct.: ≥5.0 mg/l	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.
Suspended Solids	--		Propagation of aquatic life.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES As designated in NAC 445A.159 (Most stringent use listed first)
Single Value		≤80 mg/l	
Turbidity Single Value	--	b	Propagation of aquatic life and municipal or domestic supply, or both.
Color Single Value	--	≤75 PCU	Municipal or domestic supply, or both, propagation of aquatic life.
Total Dissolved Solids Annual Average Single Value	≤320 mg/l ≤390 mg/l	≤500 mg/l	Municipal or domestic supply, or both, irrigation and watering of livestock.
Chloride Annual Average Single Value	≤13 mg/l ≤19 mg/l	-- ≤250 mg/l	Municipal or domestic supply, or both, propagation of wildlife, irrigation and watering of livestock.
Sulfate Single Value	≤44 mg/l	≤250 mg/l	Municipal or domestic supply, or both.
Sodium Adsorption Ratio Annual Average	--	≤8	Irrigation and municipal or domestic supply, or both.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES As designated in NAC 445A.159 (Most stringent use listed first)
Alkalinity (as $CaCO_3$)	--	less than 25% change from natural conditions	Propagation of aquatic life and propagation of wildlife.
~~[Escherichia coli Annual Average]~~ ***E. Coli (No./100 ml)*** ***Annual*** Geometric Mean Single Value	-- --	~~[126 MF /100 ml 235 MF/100 ml]~~ ***≤126 ≤410***	Recreation involving contact with the water ~~[,]~~ ***and*** recreation not involving contact with the water ***.*** ~~[, municipal or domestic supply, or both, irrigation 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. Increase in turbidity must not be more than 10 NTU above natural conditions.

c. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 26. 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 As designated in NAC 445A.159 (Most stringent use listed first)
Temperature Single Value	 $\Delta T = 0°C$[a]	Nov.-Mar.: ≤13°C Apr.-Jun.: ≤23°C[b] Jul.-Oct.: ≤28°C $\Delta T \leq 2°C$	Propagation of aquatic life and recreation involving contact with the water.
pH Single Value	--	Within range 6.5 - 9.0 SU ΔpH: ±0.5 SU Max.	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.
Total Phosphates (as P) Annual Average Single Value	 --	 ≤0.26 mg/l ≤0.40 mg/l	Propagation of aquatic life, recreation involving contact with the water, municipal or domestic supply, or both, and recreation not involving contact with the water.
Nitrogen Species (as N) Annual Average	Total Nitrogen ≤1.2 mg/l		Municipal or domestic supply, or both, propagation of aquatic life, recreation involving contact with the water, watering of livestock,

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES As designated in NAC 445A.159 (Most stringent use listed first)
Single Value Single Value ~~[Single Value]~~	≤1.5 mg/l	Nitrate: ≤10 mg/l Nitrite: ≤1[c] mg/l ~~[Ammonia: ≤.06 mg/l (un-ionized)]~~	propagation of wildlife and recreation not involving contact with the water.
Total Ammonia (as N) - mg/l	***--***	***e***	***Propagation of aquatic life.***
Dissolved Oxygen Single Value	-- --	Nov.-May: ≥6.0 mg/l Jun.-Oct.: ≥5.0 mg/l	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.
Suspended Solids Single Value	--	≤80 mg/l	Propagation of aquatic life.
Turbidity Single Value	--	d	Propagation of aquatic life and municipal or domestic supply, or both.
Color Single Value	--	≤75 PCU	Municipal or domestic supply, or both, and propagation of aquatic life.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES As designated in NAC 445A.159 (Most stringent use listed first)
Total Dissolved Solids Annual Average Single Value	 ≤400 mg/l ≤450 mg/l	 ≤500 mg/l	Municipal or domestic supply, or both, irrigation and watering of livestock.
Chloride Annual Average Single Value	 ≤30 mg/l ≤35 mg/l	 -- ≤250 mg/l	Municipal or domestic supply, or both, propagation of wildlife irrigation and watering of livestock.
Sulfate Annual Average Single Value	 ≤95 mg/l ≤110 mg/l	 ≤250 mg/l	Municipal or domestic supply, or both.
Sodium Adsorption Ratio Annual Average	 ≤3	 ≤8	Irrigation and municipal or domestic supply, or both.
Alkalinity (as $CaCO_3$)	 --	 less than 25% change from natural conditions	Propagation of aquatic life and propagation of wildlife.
~~[Escherichia coli]~~ ***E. Coli*** ***(No./100 ml)*** Annual Geometric		 ~~[126 MF /100 ml~~	Recreation involving contact with the water ~~[,]~~ ***and*** recreation not involving contact with the water ***.*** ~~[, municipal or domestic supply, or both, irrigation and watering of livestock.]~~

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES As designated in NAC 445A.159 (Most stringent use listed first)
Mean Single Value		~~235 MF/100 ml~~] *≤126* *≤410*	

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 temperature beneficial use standard is ≤21°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 ≤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. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 27. 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 Designated in NAC 445A.159 (Most stringent use listed first)
Temperature Single Value	ΔT = 0°C[a]	Nov.-Apr.: ≤13°C May-Jun.: ≤17°C Jul.-Oct.: ≤23°C ΔT ≤2°C[a]	Propagation of aquatic life and recreation involving contact with the water.
pH Single Value	--	Within range 6.5 - 9.0 SU ΔpH: ±0.5 SU Max.	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.
Total Phosphates (as P) Annual Average Single Value	≤0.13 mg/l	≤0.1 mg/l	Propagation of aquatic life, recreation involving contact with the water, municipal or domestic supply, or both, and recreation not involving contact with the water.
Nitrogen Species (as N) Annual Average Single Value ~~[Single Value]~~	Total Nitrate ≤0.20 mg/l ≤0.27 mg/l	Nitrate: ≤10 mg/l Nitrite: ≤.06 mg/l ~~[Ammonia: ≤.02 mg/l (un-ionized)]~~	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.
Total Ammonia	**--**	***c***	***Propagation of aquatic life.***

(as N) - mg/l			
Dissolved Oxygen Single Value	 -- --	Nov.-May: ≥6.0 mg/l Jun.-Oct.: ≥5.0 mg/l	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.
Suspended Solids Single Value	 -- 	 ≤80 mg/l	Propagation of aquatic life.
Turbidity Single Value	 --	 b	Propagation of aquatic life and municipal or domestic supply, or both.
Color Single Value	 --	 ≤75 PCU	Municipal or domestic supply, or both, and propagation of aquatic life.
Total Dissolved Solids Annual Average Single Value	 ≤110 mg/l ≤130 mg/l	 ≤500 mg/l	Municipal or domestic supply, or both, irrigation and watering of livestock.
Chloride Annual Average Single Value	 ≤5 mg/l ≤7 mg/l	 -- ≤250 mg/l	Municipal or domestic supply, or both, propagation of wildlife, irrigation and watering of livestock.
Sulfate Single Value	 --	 ≤250 mg/l	Municipal or domestic supply, or both.

Sodium Adsorption Ratio Annual Average	--	≤8	Irrigation and municipal or domestic supply, or both.
Alkalinity (as $CaCO_3$)	--	less than 25% change from natural conditions	Propagation of aquatic life and propagation of wildlife.
~~[Escherichia coli]~~ ***E. Coli*** ***(No./100 ml)*** Annual Geometric Mean Single Value		~~[126 MF /100 ml 235 MF/100 ml]~~ ***≤126 ≤410***	Recreation involving contact with the water ~~[,]~~ ***and*** recreation not involving contact with the water ***.*** ~~[, municipal or domestic supply, or both, irrigation 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. Increase in turbidity must not be more than 10 NTU above natural conditions.

c. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 28. NAC 445A.1696 is hereby amended to read as follows:

445A.1696

STANDARDS OF WATER QUALITY

Walker Lake

Control Point at Walker Lake. The limits of this table apply to Walker Lake.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES As designated in NAC 445A.1693 (Most stringent use listed first)
Temperature[a] Single Value	--	ΔT ≤2°C	Propagation of aquatic life.
pH Single Value	--	Within range 6.5 - 9.7 SU	Propagation of aquatic life, recreation involving contact with the water and propagation of wildlife.
Dissolved Oxygen[b] Single Value	--	≥5 mg/l	Propagation of aquatic life, recreation involving contact with the water, recreation not involving contact with the water and propagation of wildlife.
Suspended Solids Single Value	--	≤25 mg/l	Propagation of aquatic life.
Nitrogen Species ~~[as N]~~ ***(as N)*** Single Value Single Value	Total Inorganic Nitrogen: ≤0.3 mg/l	Nitrate ≤90 mg/l Nitrite ≤0.06 mg/l	Propagation of aquatic life and propagation of wildlife.
Total Ammonia (as N) - mg/l	***--***	***c***	***Propagation of aquatic life.***
Total Phosphorus ~~[as P]~~ ***(as P)***			Propagation of aquatic life.

Single Value	--	≤0.82 mg/l	
~~[Escherichia]~~ ***E.*** Coli ***(No./100 ml)*** Annual Geometric Mean	--	≤126 ~~[MF/100 ml]~~	Recreation involving contact with the water and recreation not involving contact with the water.
Single Value	--	≤235 ~~[MF/100 ml]~~	

a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone.

b. When lake is stratified, the dissolved oxygen applies only to the epilimnion.

c. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 29. NAC 445A.171 is hereby amended to read as follows:

445A.171

STANDARDS OF WATER QUALITY

Chiatovich Creek

Control Point above highway maintenance station. The limits of this table apply above the highway maintenance station.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C- Maximum ΔT^a	 $\Delta T = 0°C$	Nov.-Apr.: ≤13°C May-Jun.: ≤17°C Jul.-Oct.: ≤23°C $\Delta T \leq 2°C$	Aquatic life[b] and ~~[water contact recreation.]~~ ***recreation involving contact with the water.***
pH Units	--	S.V.: ~~[7.0 – 8.3]~~ ***6.5-9.0*** ΔpH: ±0.5 Max.	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life, irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	A-Avg.: ≤.04 S.V.: ≤.06	A-Avg.: ≤0.1 --	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: ≤.6 S.V.: ≤.8	Nitrate S.V.: ≤10 Nitrite S.V.: ≤.06 ~~[Ammonia S.V.: ≤.02 (un-ionized)]~~	Municipal or domestic supply[b], aquatic life[b], ~~[water contact recreation, stock watering, wildlife propagation and noncontact recreation.]~~ ***recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
			water.
Total Ammonia (as N) - mg/l	***--***	***e***	***Aquatic life[b].***
Dissolved Oxygen - mg/l	-- --	S.V.: Nov.-May: ≥6.0 Jun.-Oct.: ≥5.0	Aquatic life[b], ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Suspended Solids - mg/l	--	S.V.: ≤25	Aquatic life[b].
Turbidity - NTU	--	S.V.: ≤10	Aquatic life[b] and municipal or domestic supply.
Color - PCU	--	c	Aquatic life[b] and municipal or domestic supply.
Total Dissolved Solids - mg/l	A-Avg.: ≤50 S.V.: ≤60	A-Avg.: ≤500 --	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Chlorides - mg/l	A-Avg.: ≤2 S.V.: ≤3	-- S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation, irrigation and stock watering.]~~ ***propagation of wildlife, irrigation and watering***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
			of livestock.
Sulfate - mg/l	A-Avg.: ≤4 S.V.: ≤5	-- S.V.: ≤250	Municipal or domestic supply[b].
Sodium - SAR	A-Avg.: ≤1	A-Avg.: ≤8	Irrigation[b] and municipal or domestic supply.
Alkalinity (as $CaCO_3$) - mg/l	--	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform- No./100 ml	A.G.M.: ≤100 S.V.: ≤200	≤200/400[d]	~~[Water contact recreation[b], noncontact recreation,]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli (No./100 ml) ***Annual Geometric Mean*** ***Single Value***	 ***--*** ***--***	 ***≤126*** ***≤410***	***Recreation involving contact with the water[b] and recreation not involving contact with the water.***

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. 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.

e. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 30. NAC 445A.172 is hereby amended to read as follows:

445A.172

STANDARDS OF WATER QUALITY

Indian Creek

Control Point near center of Section 9, T.2 S., R.34 E. The limits of this table apply above the center of Section 9, T.2 S., R 34 E.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C-Maximum		Nov.-Apr.: ≤13°C May-Jun.: ≤17°C Jul.-Oct.: ≤23°C	Aquatic life[b] and ~~[water contact recreation.]~~ ***recreation involving contact with the water.***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
ΔT[a]	ΔT = 0°C	ΔT ≤2°C	
pH Units	--	S.V.: ~~[7.0 – 8.3]~~ ***6.5-9.0*** ΔpH: ±0.5 Max.	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life, irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	-- S.V.: ≤0.13	A-Avg.: ≤0.1 --	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	Nitrate S.V.: ≤0.45	Nitrate S.V.: ≤10 Nitrite S.V.: ≤.06 ~~[Ammonia S.V.: ≤.02 (un-ionized)]~~	Municipal or domestic supply[b], aquatic life[b], ~~[water contact recreation, stock watering, wildlife propagation and noncontact recreation.]~~ ***recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water***
Total Ammonia (as N) - mg/l	***--***	***e***	***Aquatic life[b].***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Dissolved Oxygen - mg/l	-- --	S.V.: Nov.-May: ≥6.0 Jun.-Oct.: ≥5.0	Aquatic life[b], ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Suspended Solids - mg/l	--	S.V.: ≤25	Aquatic life[b].
Turbidity - NTU	--	S.V.: ≤10	Aquatic life[b] and municipal or domestic supply.
Color - PCU	--	c	Aquatic life[b] and municipal or domestic supply.
Total Dissolved Solids - mg/l	A-Avg.: ≤225 S.V.: ≤300	A-Avg.: ≤500 --	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Chlorides - mg/l	A-Avg.: ≤6 S.V.: ≤10	-- S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation, irrigation and stock watering.]~~ ***propagation of wildlife, irrigation and watering of livestock.***
Sulfate - mg/l	--	S.V.: ≤250	Municipal or domestic supply[b].

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Sodium - SAR	--	A-Avg.: ≤8	Irrigation[b] and municipal or domestic supply.
Alkalinity (as $CaCO_3$) - mg/l	--	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform- No./100 ml	A.G.M.: ≤100 S.V.: ≤200	≤200/400[d]	~~[Water contact recreation[b], noncontact recreation.]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli (No./100 ml)			***Recreation involving contact with the water[b] and recreation not involving contact with the water.***
Annual Geometric Mean	***--***	***≤126***	
Single Value	***--***	***≤410***	

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. 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.

e. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 31. NAC 445A.173 is hereby amended to read as follows:

445A.173

STANDARDS OF WATER QUALITY

Leidy Creek

Control Point at hydroelectric plant. The limits of this table apply above the hydroelectric plant.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C- Maximum ΔT^a	 $\Delta T = 0°C$	Nov.-Apr.: ≤13°C May-Jun.: ≤17°C Jul.-Oct.: ≤23°C $\Delta T \leq 2°C$	Aquatic life[b] and ~~[water contact recreation.]~~ ***recreation involving contact with the water.***
pH Units	--	S.V.: ~~[7.0 – 8.3]~~ ***6.5-9.0*** ΔpH: ±0.5 Max.	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life, irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
			or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	A-Avg.: ≤.013 S.V.: ≤.03	A-Avg.: ≤0.1 --	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	Nitrate A-Avg.: ≤0.18 S.V.: ≤0.22	Nitrate S.V.: ≤10 Nitrite S.V.: ≤.06 ~~[Ammonia S.V.: ≤.02 (un-ionized)]~~	Municipal or domestic supply[b], aquatic life, ~~[water contact recreation, stock watering, wildlife propagation[b] and noncontact recreation.]~~ ***recreation involving contact with the water, watering of livestock, propagation of wildlife[b] and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***e***	***Aquatic life[b].***
Dissolved Oxygen - mg/l	-- --	S.V.: Nov.-May: ≥6.0 Jun.-Oct.: ≥5.0	Aquatic life[b], ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Suspended Solids - mg/l	--	S.V.: ≤25	Aquatic life[b].
Turbidity - NTU	--	S.V.: ≤10	Aquatic life[b] and municipal or domestic supply.
Color - PCU	--	~~[C]~~ ***c***	Aquatic life[b] and municipal or domestic supply.
Total Dissolved Solids - mg/l	A-Avg.: ≤135 S.V.: ≤150	A-Avg.: ≤500 --	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Chlorides - mg/l	A-Avg.: ≤3 S.V.: ≤5	-- S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation, irrigation and stock watering.]~~ ***propagation of wildlife, irrigation and watering of livestock.***
Sulfate - mg/l	--	S.V.: ≤250	Municipal or domestic supply[b].
Sodium - SAR	--	A-Avg.: ≤8	Irrigation[b] and municipal or domestic supply.
Alkalinity (as $CaCO_3$) - mg/l	--	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform- No./100 ml	A.G.M.: ≤100 S.V.: ≤200	≤200/400[d]	~~[Water contact recreation[b], noncontact recreation,]~~ ***Recreation involving contact with***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
			the water[b], recreation not involving contact with the water, municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli (No./100 ml) Annual Geometric Mean ***Single Value***	 ***--*** ***--***	 ***≤126*** ***≤410***	***Recreation involving contact with the water[b] and recreation not involving contact with the water.***

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. 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.

e. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 32. NAC 445A.175 is hereby amended to read as follows:

445A.175

STANDARDS OF WATER QUALITY

Virgin River

Control Point at Mesquite. The limits of this table apply from Mesquite to the Arizona state line (near Littlefield, Arizona).

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C- Maximum ΔT[a]	 $\Delta T = 0°C$	Nov.-Jun.: ≤21°C Jul.-Oct.: ≤32°C $\Delta T \leq 2°C$	Aquatic life[b].
pH Units	--	S.V.: ~~[7.0]~~ ***6.5*** - 9.0 ΔpH: ±0.5 Max.	~~[Wildlife propagation[b],]~~ ***Propagation of wildlife[b],*** aquatic life[b], ~~[noncontact recreation, irrigation, stock watering]~~ ***recreation not involving contact with the water, irrigation, watering of livestock*** and industrial supply.
Total Phosphates (as P) - mg/l	--	A-Avg.: ≤0.1	Aquatic life[b] and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: ≤0.9	Nitrate S.V.: ≤90 Nitrite S.V.: ≤5.0	Aquatic life[b] ~~[stock watering, wildlife propagation and noncontact recreation.]~~ ***, watering of***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
	S.V.: ≤1.6	~~[Ammonia S.V.: ≤.06 (un-ionized)]~~	***livestock, propagation of wildlife and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***f***	***Aquatic life[b].***
Dissolved Oxygen - mg/l	--	S.V.: ≥5.0	Aquatic life[b], ~~[noncontact recreation, wildlife propagation and stock watering.]~~ ***recreation not involving contact with the water, propagation of wildlife and watering of livestock.***
Turbidity - NTU	--	e	Aquatic life[b].
Color - PCU	--	d	Aquatic life[b].
Total Dissolved Solids - mg/l	--	c	Irrigation[b] and ~~[stock watering.]~~ ***watering of livestock.***
Alkalinity (as $CaCO_3$) - mg/l	--	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform- No./100 ml	A.G.M.: ≤300 S.V.: ≤550	A.G.M.: ≤1000 S.V.: ≤2000	~~[Noncontact recreation[b], irrigation, wildlife propagation and stock watering.]~~ ***Recreation not involving contact with the water[b], irrigation, propagation of wildlife and watering of***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
			livestock.
E. Coli (No./100 ml) Annual Geometric Mean	***--***	***≤630***	***Recreation not involving contact with the water[b].***

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. The salinity standard for the Colorado River System is specified in NAC 445A.143.

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

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

f. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 33. NAC 445A.176 is hereby amended to read as follows:

445A.176

STANDARDS OF WATER QUALITY

Virgin River

Control Point at the state line (near Littlefield, Arizona). The limits of this table apply at the Arizona-Nevada state line (near Littlefield, Arizona).

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C- Maximum ΔT[a]	 $\Delta T = 0°C$	Nov.-Jun.: ≤21°C Jul.-Oct.: ≤32°C $\Delta T \leq 2°C$	Aquatic life[b].
pH - Standard Units	--	S.V.: ~~[7.0]~~ ***6.5*** - 9.0 ΔpH: ±0.5 Max.	~~[Wildlife propagation[b],]~~ ***Propagation of wildlife[b],*** aquatic life[b], ~~[noncontact recreation, irrigation, stock watering]~~ ***recreation not involving contact with the water, irrigation, watering of livestock*** and industrial supply.
Total Phosphates (as P) - mg/l	A-Avg.: ≤.06 S.V.: ≤0.1	A-Avg.: ≤0.1 --	Aquatic life[b] and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: ≤2.4 S.V.: ≤3.2	Nitrate S.V.: ≤90 Nitrite S.V.: ≤5.0 ~~[Ammonia S.V.: ≤.06 (un-ionized)]~~	Aquatic life[b] ~~[stock watering, wildlife propagation and noncontact recreation.]~~ ***, watering of livestock, propagation of wildlife and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	*--*	*f*	***Aquatic life[b].***
Dissolved			Aquatic life[b], ~~[noncontact recreation, wildlife~~

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Oxygen - mg/l	--	S.V.: ≥5.0	~~propagation and stock watering.]~~ ***recreation not involving contact with the water, propagation of wildlife and watering of livestock.***
Turbidity - NTU	--	e	Aquatic life[b].
Color - PCU	--	d	Aquatic life[b].
Total Dissolved Solids - mg/l	--	c	Irrigation[b] and ~~[stock watering.]~~ ***watering of livestock.***
Alkalinity (as $CaCO_3$) - mg/l	--	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform- No./100 ml	A.G.M.: ≤450 S.V.: ≤1800	A.G.M.: ≤1000 S.V.: ≤2000	~~[Noncontact recreation[b], irrigation, wildlife propagation and stock watering.]~~ ***Recreation not involving contact with the water[b], irrigation, propagation of wildlife and watering of livestock.***
E. Coli (No./100 ml) Annual Geometric Mean	***--***	***≤630***	***Recreation not involving contact with the water[b].***

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. The salinity standard for the Colorado River System is specified in NAC 445A.143.

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

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

f. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 34. NAC 445A.177 is hereby amended to read as follows:

445A.177

STANDARDS OF WATER QUALITY

Virgin River

Control Point at Riverside. The limits of this table apply from the river mouth at Lake Mead to Mesquite.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C- Maximum ΔT[a]	 $\Delta T = 0°C$	Nov.-Jun.: ≤21°C Jul.-Oct.: ≤32°C $\Delta T \leq 2°C$	Aquatic life[b].

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
pH Units	--	S.V.: ~~[7.0]~~ ***6.5*** - 9.0 ΔpH: ±0.5 Max.	~~[Wildlife propagation[b],]~~ ***Propagation of wildlife[b],*** aquatic life[b], ~~[noncontact recreation, irrigation, stock watering]~~ ***recreation not involving contact with the water, irrigation, watering of livestock*** and industrial supply.
Total Phosphates (as P) - mg/l	--	A-Avg.: ≤0.1	Aquatic life[b] and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: ≤2.9 S.V.: ≤6.1	Nitrate S.V.: ≤90 Nitrite S.V.: ≤5.0 ~~[Ammonia S.V.: ≤.06 (un-ionized)]~~	Aquatic life[b] ~~[stock watering, wildlife propagation and noncontact recreation.]~~ ***, watering of livestock, propagation of wildlife and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***f***	***Aquatic life[b].***
Dissolved Oxygen - mg/l	--	S.V.: ≥5.0	Aquatic life[b], ~~[noncontact recreation, wildlife propagation and stock watering.]~~ ***recreation not involving contact with the water, propagation of wildlife and watering of livestock.***
Turbidity - NTU	--	e	Aquatic life[b].

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Color - PCU	--	d	Aquatic life[b].
Total Dissolved Solids - mg/l	--	c	Irrigation[b] and ~~[stock watering.]~~ ***watering of livestock.***
Alkalinity (as $CaCO_3$) - mg/l	--	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform- No./100 ml	A.G.M.: ≤625 S.V.: ≤1250	A.G.M.: ≤1000 S.V.: ≤2000	~~[Noncontact recreation[b], irrigation, wildlife propagation and stock watering.]~~ ***Recreation not involving contact with the water[b], irrigation, propagation of wildlife and watering of livestock.***
E. Coli (No./100 ml) Annual Geometric Mean	***--***	***≤630***	***Recreation not involving contact with the water[b].***

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. The salinity standard for the Colorado River System is specified in NAC 445A.143.

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

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

f. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 35. NAC 445A.178 is hereby amended to read as follows:

445A.178

STANDARDS OF WATER QUALITY

Beaver Dam Wash

Control Point above Schroeder Reservoir. The limits of this table apply above Schroeder Reservoir.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C- Maximum ΔT[a]	 ΔT = 0°C	Nov.-Apr.: ≤13°C May-Jun.: ≤17°C Jul.-Oct.: ≤23°C ΔT ≤2°C	Aquatic life[b] and ~~[water contact recreation.]~~ ***recreation involving contact with the water.***
pH Units	--	S.V.: ~~[7.0 – 8.3]~~ ***6.5 - 9.0*** ΔpH: ±0.5 Max.	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life, irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal or domestic supply and industrial supply.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Total Phosphates (as P) - mg/l	A-Avg.: ≤.01 S.V.: ≤.013	A-Avg.: ≤0.05 --	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	Nitrate S.V.: ≤.22	Nitrate S.V.: ≤10 Nitrite S.V.: ≤.06 ~~[Ammonia S.V.: ≤.02 (un-ionized)]~~	Municipal or domestic supply[b], aquatic life[b], ~~[water contact recreation, stock watering, wildlife propagation and noncontact recreation.]~~ ***recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water***
Total Ammonia (as N) - mg/l	***--***	***f***	***Aquatic life[b].***
Dissolved Oxygen - mg/l	-- --	S.V.: Nov.-May: ≥6.0 Jun.-Oct.: ≥5.0	Aquatic life[b], ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Suspended Solids - mg/l	--	S.V.: ≤25	Aquatic life[b].
Turbidity - NTU	--	S.V.: ≤10	Aquatic life[b] and municipal or domestic supply.
Color - PCU	--	e	Aquatic life[b] and municipal or domestic supply.
Total Dissolved Solids - mg/l	--	c	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Alkalinity (as $CaCO_3$) - mg/l	--	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform- No./100 ml	--	≤200/400[d]	~~[Water contact recreation[b], noncontact recreation,]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli (No./100 ml) Annual Geometric Mean	***--***	***≤126***	***Recreation involving contact with the water[b] and recreation not involving contact with the water.***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Single Value	***--***	***≤410***	

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. The salinity standard for the Colorado River System is specified in NAC 445A.143.

d. 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.

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

f. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 36. NAC 445A.179 is hereby amended to read as follows:

445A.179

STANDARDS OF WATER QUALITY

Snake Creek

Control Point above fish hatchery. The limits of this table apply above the fish hatchery.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C- Maximum ΔT[a]	 ΔT = 0°C	Nov.-Apr.: ≤13°C May-Jun.: ≤17°C Jul.-Oct.: ≤23°C ΔT ≤2°C	Aquatic life[b] and ~~[water contact recreation.]~~ ***recreation involving contact with the water.***
pH Units	--	S.V.: ~~[7.0 – 8.3]~~ ***6.5 - 9.0*** ΔpH: ±0.5 Max.	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life, irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	A-Avg.: ≤.05 S.V.: ≤.08	A-Avg.: ≤0.1	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	Nitrate A-Avg.: ≤.22 S.V.: ≤.44	Nitrate S.V.: ≤10 Nitrite S.V.: ≤.06 ~~[Ammonia S.V.: ≤.02 (un-ionized)]~~	Municipal or domestic supply[b], aquatic life[b], ~~[water contact recreation, stock watering, wildlife propagation and noncontact recreation.]~~ ***recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
			water.
Total Ammonia (as N) - mg/l	***--***	***e***	***Aquatic life[b].***
Dissolved Oxygen - mg/l	-- --	S.V.: Nov.-May: ≥6.0 Jun.-Oct.: ≥5.0	Aquatic life[b], ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Suspended Solids - mg/l	--	S.V.: ≤25	Aquatic life[b].
Turbidity - NTU	--	S.V.: ≤10	Aquatic life[b] and municipal or domestic supply.
Color - PCU	--	c	Aquatic life[b] and municipal or domestic supply.
Total Dissolved Solids - mg/l	A-Avg.: ≤100 S.V.: ≤125	A-Avg.: ≤500	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Chlorides - mg/l	A-Avg.: ≤10 S.V.: ≤20	-- S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation, irrigation and stock watering.]~~ ***propagation of wildlife, irrigation and watering***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
			of livestock.
Sulfate - mg/l	--	S.V.: ≤250	Municipal or domestic supply[b].
Sodium - SAR	--	A-Avg.: ≤8	Irrigation[b] and municipal or domestic supply.
Alkalinity (as $CaCO_3$) - mg/l	--	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform- No./100 ml	A.G.M.: ≤100 S.V.: ≤200	≤200/400[d]	~~[Water contact recreation[b], noncontact recreation.]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli (No./100 ml)			***Recreation involving contact with the water[b] and recreation not involving contact with the water.***
Annual Geometric Mean	***--***	***≤126***	
Single Value	***--***	***≤410***	

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. 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.

e. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 37. NAC 445A.184 is hereby amended to read as follows:

445A.184

STANDARDS OF WATER QUALITY

Truckee River

Control Point at the state line. The limits of this table apply only at the California-Nevada state line.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C- Maximum ΔT^a	 $\Delta T = 0°C$	Nov.-Mar.: ≤7°C Apr.-May: ≤13°C June: ≤17°C July: ≤21°C Aug.: ≤22°C Sep.-Oct.: ≤23°C $\Delta T \leq 2°C$	Aquatic life[b] and ~~[water contact recreation.]~~ ***recreation involving contact with the water.***

pH Units	7.0 - 8.3	S.V.: 6.5 - 9.0 ΔpH: ±0.5 Max.	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life, irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal or domestic supply and industrial supply.
Dissolved Oxygen - mg/l	--	S.V.: Nov.-Mar.: ≥6.0 Apr.-Oct.: ≥5.0	Aquatic life[b], ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Chlorides - mg/l	A-Avg.: ≤7.0 S.V.: ≤10.0	S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation, irrigation and stock watering.]~~ ***propagation of wildlife, irrigation and watering of livestock.***
Total Phosphates (as P) - mg/l	A-Avg.: ≤0.03	A-Avg.: ≤0.10	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Ortho Phosphate (P) - mg/l	S.V.: ≤0.01	S.V.: ≤0.05	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: ≤0.3 S.V.: ≤0.43	Nitrate S.V.: ≤2.0 Nitrite S.V.: ≤.04 ~~[Ammonia S.V.: ≤.02 (un-ionized)]~~	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***

Total Ammonia (as N) - mg/l	***--***	***e***	***Aquatic life[b].***
Total Dissolved Solids - mg/l	A-Avg.: ≤70.0 S.V.: ≤85.0	A-Avg.: ≤500	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Turbidity - NTU	A-Avg.: ≤5.0 S.V.: ≤9.0	S.V.: ≤10.00	Aquatic life[b] and municipal or domestic supply.
Color - PCU	d	S.V.: ≤75	Municipal or domestic supply.
Alkalinity (as $CaCO_3$) - mg/l	--	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform - No./100 ml	A.G.M.: ≤30.0 S.V.: ≤150.0	≤200/400[c]	~~[Water contact recreation[b], noncontact recreation.]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli (No./100 ml) ***Annual Geometric Mean*** ***Single Value***	 ***--*** ***--***	 ***≤126*** ***≤410***	***Recreation involving contact with the water[b] and recreation not involving contact with the water.***
Suspended Solids – mg/l	A-Avg.: ≤15.0	S.V.: ≤25	Aquatic life[b].
Sulfate - mg/l	A-Avg.: ≤7.0 S.V.: ≤8.0	S.V.: ≤250	Municipal or domestic supply[b].
Sodium - SAR	A-Avg.: ≤0.5 S.V.: ≤0.6	A-Avg.: ≤8	Irrigation[b] and municipal or domestic supply.
BOD - mg/l	--	A-Avg.: ≤2.5 S.V.: ≤3.0	Municipal or domestic supply.

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. 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 ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 38. NAC 445A.185 is hereby amended to read as follows:

445A.185

STANDARDS OF WATER QUALITY

Truckee River

Control Point at Idlewild. The limits of this table apply from the control point at Idlewild to the state line control point.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C-Maximum		Nov.-Mar.: ≤7°C Apr.-May: ≤13°C June: ≤17°C July: ≤21°C Aug.: ≤22°C	Aquatic life[b] and ~~[water contact recreation.]~~ ***recreation involving contact with the water.***

ΔT[a]	ΔT = 0°C	Sep.-Oct.: ≤23°C ΔT ≤2°C	
pH Units	7.2 - 8.3	S.V.: 6.5 - 9.0 ΔpH: ±0.5 Max.	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life, irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal or domestic supply and industrial supply.
Dissolved Oxygen - mg/l	--	S.V.: Nov.-Mar.: ≥6.0 Apr.-Oct.: ≥5.0	Aquatic life[b], ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Chlorides - mg/l	A-Avg.: ≤7.0 S.V.: ≤10.0	S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation, irrigation and stock watering.]~~ ***propagation of wildlife, irrigation and watering of livestock.***
Total Phosphates (as P) - mg/l	A-Avg.: ≤0.05	A-Avg.: ≤0.10	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Ortho Phosphate (P) - mg/l	S.V.: ≤0.02	S.V.: ≤0.05	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: ≤0.3 S.V.: ≤0.43	Nitrate S.V.: ≤2.0 Nitrite S.V.: ≤.04 ~~[Ammonia S.V.: ≤.02~~	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact~~

		~~(un-ionized)]~~	~~recreation.]~~ ***recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***e***	***Aquatic life[b].***
Total Dissolved Solids - mg/l	A-Avg.: ≤80.0 S.V.: ≤95.0	A-Avg.: ≤500	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Turbidity - NTU	A-Avg.: ≤6.0 S.V.: ≤9.0	S.V.: ≤10	Aquatic life[b] and municipal or domestic supply.
Color - PCU	d	S.V.: ≤75	Municipal or domestic supply.
Alkalinity (as $CaCO_3$) - mg/l	--	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform - No./100 ml	A.G.M.: ≤50.0 S.V.: ≤200.0	≤200/400[c]	~~[Water contact recreation[b], noncontact recreation,]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli (No./100 ml) ***Annual Geometric Mean*** ***Single Value***	 ***--*** ***--***	 ***≤126*** ***≤410***	***Recreation involving contact with the water[b] and recreation not involving contact with the water.***
Suspended Solids - mg/l	A-Avg.: ≤15.0	S.V.: ≤25	Aquatic life[b].
Sulfate - mg/l	A-Avg.: ≤7.0 S.V.: ≤8.0	S.V.: ≤250	Municipal or domestic supply [b].
Sodium - SAR	A-Avg.: ≤0.5 S.V.: ≤0.6	A-Avg.: ≤8	Irrigation[b] and municipal or domestic supply.
BOD - mg/l	--	A-Avg.: ≤2.5	Municipal or domestic supply.

		S.V.: ≤3.0	

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. 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 ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 39. NAC 445A.186 is hereby amended to read as follows:

445A.186

STANDARDS OF WATER QUALITY

Truckee River

Control Point at East McCarran Boulevard Bridge. The limits of this table apply from the East McCarran control point to the Idlewild control point.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C-Maximum		Nov.-Mar.: ≤7°C Apr.-May: ≤13°C June: ≤17°C	Aquatic life[b] and ~~[water contact recreation.]~~ ***recreation involving contact with the water.***

ΔT[a]	ΔT = 0°C	July: ≤21°C Aug.: ≤22°C Sep.-Oct.: ≤23°C ΔT ≤2°C	
pH Units	7.0 - 8.5	S.V.: 6.5 - 9.0 ΔpH: ±0.5 Max.	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life, irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal or domestic supply and industrial supply.
Dissolved Oxygen - mg/l	--	S.V.: Nov.-Mar.: ≥6.0 Apr.-Oct.: ≥5.0	Aquatic life[b], ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Chlorides - mg/l	A-Avg.: ≤7.0 S.V.: ≤10.0	S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation, irrigation and stock watering.]~~ ***propagation of wildlife, irrigation and watering of livestock.***
Total Phosphates (as P) - mg/l	A-Avg.: ≤0.05	A-Avg.: ≤0.10	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Ortho Phosphate (P) - mg/l	S.V.: ≤0.02	S.V.: ≤0.05	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species	Total Nitrogen	Nitrate S.V.: ≤2.0	Aquatic life[b], ~~[water contact recreation[b],]~~

(N) - mg/l	A-Avg.: ≤0.3 S.V.: ≤0.43	Nitrite S.V.: ≤.04 ~~[Ammonia S.V.: ≤.02 (un-ionized)]~~	***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***e***	***Aquatic life[b].***
Total Dissolved Solids - mg/l	A-Avg.: ≤90.0 S.V.: ≤120.0	A-Avg.: ≤500	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Turbidity - NTU	A-Avg.: ≤6.0	S.V.: ≤10	Aquatic life[b] and municipal or domestic supply.
Color - PCU	d	S.V.: ≤75	Municipal or domestic supply.
Alkalinity (as $CaCO_3$) - mg/l	--	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform - No./100 ml	A.G.M.: ≤75.0 S.V.: ≤350.0	≤200/400[c]	~~[Water contact recreation[b], noncontact recreation,]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli (No./100 ml)			***Recreation involving contact with the water[b] and recreation not involving contact with the water.***
Annual Geometric Mean	***--***	***≤126***	
Single Value	***--***	***≤410***	
Suspended Solids - mg/l	A-Avg.: ≤15.0	S.V.: ≤25	Aquatic life[b].
Sulfate - mg/l	A-Avg.: ≤7.0 S.V.: ≤8.0	S.V.: ≤250	Municipal or domestic supply[b].
Sodium - SAR	A-Avg.: ≤0.5 S.V.: ≤0.6	A-Avg.: ≤8	Irrigation[b] and municipal or domestic supply.

BOD - mg/l	--	A-Avg.: ≤3.0 S.V.: ≤5.0	Municipal or domestic supply.

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. 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 ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 40. NAC 445A.187 is hereby amended to read as follows:

445A.187

STANDARDS OF WATER QUALITY

Truckee River

Control Point at Lockwood Bridge. The limits of this table apply from the control point at Lockwood to the East McCarran control point.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C- Maximum		Nov.-Mar.: ≤13°C Apr.: ≤21°C[e]	Aquatic life[b] and ~~[water contact recreation.]~~ ***recreation involving contact with the water.***

ΔT^{a}	$\Delta T = 0°C$	May: $\leq 22°C^{e,f}$ June-Oct.: $\leq 23°C^{e,f}$ $\Delta T \leq 2°C$	
pH Units	7.1 - 8.5	S.V.: 6.5 - 9.0 ΔpH: ± 0.5 Max.	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life, irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal or domestic supply and industrial supply.
Dissolved Oxygen - mg/l	--	S.V.: Nov.-Mar.: ≥ 6.0 Apr.-Oct.: ≥ 5.0	Aquatic life[b], ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Chlorides - mg/l	A-Avg.: ≤ 26.0 S.V.: ≤ 30.0	S.V.: ≤ 250	Municipal or domestic supply[b], ~~[wildlife propagation, irrigation and stock watering.]~~ ***propagation of wildlife, irrigation and watering of livestock.***
Total Phosphates (as P) - mg/l	--	A-Avg.: ≤ 0.05	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	--	TN A-Avg.: ≤ 0.75 TN S.V.: ≤ 1.2 Nitrate S.V.: ≤ 2.0 Nitrite S.V.: $\leq .04$ ~~[Ammonia S.V.: $\leq .02$ (un-ionized)]~~	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Total Ammonia			

(as N) - mg/l	***--***	***g***	***Aquatic life[b].***
Total Dissolved Solids - mg/l	A-Avg.: ≤210.0 S.V.: ≤260.0	A-Avg.: ≤500	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Turbidity - NTU	--	S.V.: ≤10	Aquatic life[b] and municipal or domestic supply.
Color - PCU	d	S.V.: ≤75	Municipal or domestic supply.
Alkalinity (as $CaCO_3$) - mg/l	--	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform - No./100 ml	A.G.M.: ≤90.0 S.V.: ≤300.0	≤200/400[c]	~~[Water contact recreation[b], noncontact recreation.]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli (No./100 ml) ***Annual Geometric Mean*** ***Single Value***	 ***--*** ***--***	 ***≤126*** ***≤410***	***Recreation involving contact with the water[b] and recreation not involving contact with the water.***
Suspended Solids - mg/l	A-Avg.: ≤25.0	S.V.: ≤50	Aquatic life[b].
Sulfate - mg/l	A-Avg.: ≤39.0 S.V.: ≤46.0	S.V.: ≤250	Municipal or domestic supply[b].
Sodium - SAR	A-Avg.: ≤1.5 S.V.: ≤2.0	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, but the increase must not cause a violation of the single value standard. The ΔT of ≤2°C is only for the Reno and Sparks Joint Wastewater Treatment Plant.

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. When flows are adequate to induce spawning runs of cui-ui and Lahontan cutthroat trout, the standard is 14°C from April through June.

f. The desired temperature for the protection of juvenile Lahontan cutthroat trout is 21°C, even though that temperature is not attainable at all times.

g. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 41. NAC 445A.188 is hereby amended to read as follows:

445A.188

STANDARDS OF WATER QUALITY

Truckee River

Control Point at Derby Dam. The limits of this table apply from Derby Dam to the Lockwood Bridge control point.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C-Maximum		Nov.-Mar.: ≤13°C Apr.: ≤21°C[e]	Aquatic life[b] and ~~[water contact recreation.]~~ ***recreation involving contact with the water.***

ΔT[a]	ΔT = 0°C	May: ≤22°C[e,f] June-Oct.: ≤23°C[e,f] ΔT ≤2°C	
pH Units	7.0 - 8.6	S.V.: 6.5 - 9.0 ΔpH: ±0.5 Max.	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life, irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal or domestic supply and industrial supply.
Dissolved Oxygen - mg/l	--	S.V.: Nov.-Mar.: ≥6.0 Apr.-Oct.: ≥5.0	Aquatic life[b], ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Chlorides - mg/l	A-Avg.: ≤21.0 S.V.: ≤30.0	S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation, irrigation and stock watering.]~~ ***propagation of wildlife, irrigation and watering of livestock.***
Total Phosphates (as P) - mg/l	--	A-Avg.: ≤0.05	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	--	TN A-Avg.: ≤0.75 TN S.V.: ≤1.2 Nitrate S.V.: ≤2.0 Nitrite S.V.: ≤.04 ~~[Ammonia S.V.: ≤.02 (un-ionized)]~~	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Total Ammonia			

(as N) - mg/l	***--***	***g***	***Aquatic life[b].***
Total Dissolved Solids - mg/l	A-Avg.: ≤215.0 S.V.: ≤265.0	A-Avg.: ≤500	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Turbidity - NTU	A-Avg.: ≤8.0	S.V.: ≤10	Aquatic life[b] and municipal or domestic supply.
Color - PCU	d	S.V.: ≤75	Municipal or domestic supply.
Alkalinity (as $CaCO_3$) - mg/l	--	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform - No./100 ml	A.G.M.: ≤80.0 S.V.: ≤250	≤200/400[c]	~~[Water contact recreation[b], noncontact recreation.]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli (No./100 ml)			***Recreation involving contact with the water[b] and recreation not involving contact with the water.***
Annual Geometric Mean	***--***	***≤126***	
Single Value	***--***	***≤410***	
Suspended Solids - mg/l	A-Avg.: ≤24.0 S.V.: ≤40.0	S.V.: ≤50	Aquatic life[b].
Sulfate - mg/l	A-Avg.: ≤39.0 S.V.: ≤46.0	S.V.: ≤250	Municipal or domestic supply[b].
Sodium - SAR	A-Avg.: ≤1.5 S.V.: ≤2.0	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, but the increase must not cause a violation of the single value standard.

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. When flows are adequate to induce spawning runs of cui-ui and Lahontan cutthroat trout, the standard is 14°C from April through June.

f. The desired temperature for the protection of juvenile Lahontan cutthroat trout is 21°C, even though that temperature is not attainable at all times.

g. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 42. NAC 445A.189 is hereby amended to read as follows:

445A.189

STANDARDS OF WATER QUALITY

Truckee River

Control Point at Wadsworth Gage. The limits of this table apply from the Wadsworth Gage control point to Derby Dam.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C- Maximum ΔT[a]	 $\Delta T = 0°C$	Nov.-Mar.: ≤13°C[e] Apr.-June: ≤14°C[e] July-Oct.: ≤25°C[f]	Aquatic life[b] and ~~[water contact recreation.]~~ ***recreation involving contact with the water.***

		ΔT ≤2°C	
pH Units	7.1 - 8.6	S.V.: 6.5 - 9.0 ΔpH: ±0.5 Max.	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life, irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal or domestic supply and industrial supply.
Dissolved Oxygen - mg/l	--	S.V.: Nov.-June: ≥6.0 July-Oct.: ≥5.0	Aquatic life[b], ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Chlorides - mg/l	A-Avg.: ≤20.0 S.V.: ≤28.0	S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation, irrigation and stock watering.]~~ ***propagation of wildlife, irrigation and watering of livestock.***
Total Phosphates (as P) - mg/l	--	A-Avg.: ≤0.05	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	--	TN A-Avg.: ≤0.75 TN S.V.: ≤1.2 Nitrate S.V.: ≤2.0 Nitrite S.V.: ≤.04 ~~[Ammonia S.V.: ≤.02 (un-ionized)]~~	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***g***	***Aquatic life[b].***
Total Dissolved	A-Avg.: ≤245.0	A-Avg.: ≤500	Municipal or domestic supply[b], irrigation and

Solids - mg/l	S.V.: ≤310.0		~~[stock watering.]~~ ***watering of livestock.***
Turbidity - NTU	--	S.V.: ≤10	Aquatic life[b] and municipal or domestic supply.
Color - PCU	d	S.V.: ≤75	Municipal or domestic supply.
Alkalinity (as $CaCO_3$) - mg/l	--	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform - No./100 ml	A.G.M.: ≤50 S.V.: ≤250	≤200/400[c]	~~[Water contact recreation[b], noncontact recreation,]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli (No./100 ml) Annual Geometric Mean Single Value	***-- --***	***≤126 ≤410***	***Recreation involving contact with the water[b] and recreation not involving contact with the water.***
Suspended Solids - mg/l	A-Avg.: ≤25.0	S.V.: ≤50	Aquatic life[b].
Sulfate - mg/l	A-Avg.: ≤39.0 S.V.: ≤46.0	S.V.: ≤250	Municipal or domestic supply[b].
Sodium - SAR	A-Avg.: ≤1.5 S.V.: ≤2.0	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, but the increase must not cause a violation of the single value standard.

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. When flows are adequate to induce spawning runs of cui-ui and Lahontan cutthroat trout, the standard is 13°C from November through March and 14°C from April through June.

f. The desired temperature for the protection of juvenile Lahontan cutthroat trout is 21°C, even though that temperature is not attainable at all times.

g. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 43. NAC 445A.192 is hereby amended to read as follows:

445A.192

STANDARDS OF WATER QUALITY

Colorado River

Control Point below Davis Dam. The limits of this table apply from the state line below Davis Dam to Lake Mohave Inlet.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C-Maximum		Nov.-Apr.: ≤13°C May-June: ≤17°C	Aquatic life[b] and ~~[water contact recreation.]~~ ***recreation involving contact with the water.***

ΔT[a]	ΔT = 0°C	Jul.-Oct.: ≤23°C ΔT ≤2°C	
pH Units	-- --	S.V.: ~~[7.0 - 8.3]~~ ***6.5 - 9.0*** ΔpH: ±0.5 Max.	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life, irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	A-Avg.: ≤.02 S.V.: ≤.03	A-Avg.: ≤0.05 --	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	Nitrate A-Avg: ≤1.1 S.V.: ≤1.6	Nitrate S.V.: ≤10 Nitrite S.V.: ≤.06 ~~[Ammonia S.V.: ≤.02 (un-ionized)]~~	Municipal or domestic supply[b], aquatic life[b], ~~[water contact recreation, stock watering, wildlife propagation and noncontact recreation.]~~ ***recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***f***	***Aquatic life[b].***
Dissolved Oxygen - mg/l	-- --	S.V.: Nov.-May: ≥6.0 Jun.-Oct.: ≥5.0	Aquatic life[b], ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or

			domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Suspended Solids - mg/l	-- --	S.V.: ≤25	Aquatic life[b].
Turbidity - NTU	-- --	S.V.: ≤10	Aquatic life[b] and municipal or domestic supply.
Color - PCU	--	e	Aquatic life[b] and municipal or domestic supply.
Total Dissolved Solids - mg/l	--	c	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Alkalinity (as $CaCO_3$) - mg/l	-- --	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform - No./100 ml	A.G.M.: ≤50 S.V.: ≤100	≤200/400[d]	~~[Water contact recreation[b], noncontact recreation.]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli (No./100 ml) Annual Geometric Mean Single Value	***-- --***	***≤126 ≤235***	***Recreation involving contact with the water[b] and recreation not involving contact with the water.***

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. The salinity standard for the Colorado River System is specified in NAC 445A.143.

d. 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.

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

f. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 44. NAC 445A.193 is hereby amended to read as follows:

445A.193

STANDARDS OF WATER QUALITY

Colorado River

Control Point below Hoover Dam. The limits of this table apply from Lake Mohave Inlet to Hoover Dam.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C-Maximum		Nov.-Apr.: ≤13°C May-June: ≤17°C	Aquatic life[b] and ~~[water contact recreation.]~~ ***recreation involving contact with the water.***

ΔT[a]	ΔT = 0°C	Jul.-Oct.: ≤23°C ΔT ≤2°C	
pH Units	-- --	S.V.: ~~[7.0 - 8.3]~~ ***6.5 - 9.0*** ΔpH: ±0.5 Max.	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life, irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	A-Avg.: ≤.02 S.V.: ≤.033	A-Avg.: ≤0.05 --	Aquatic life[b], ~~[water contact recreation[b],]~~ ***recreation involving contact with the water[b],*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: ≤1.0 S.V.: ≤1.5	Nitrate S.V.: ≤10 Nitrite S.V.: ≤.06 ~~[Ammonia S.V.: ≤.02 (un-ionized)]~~	Municipal or domestic supply[b], aquatic life[b], ~~[water contact recreation, stock watering, wildlife propagation and noncontact recreation.]~~ ***recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***f***	***Aquatic life[b].***
Dissolved Oxygen - mg/l	-- --	S.V.: Nov.-May: ≥6.0 Jun.-Oct.: ≥5.0	Aquatic life[b], ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or

			domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Suspended Solids - mg/l	-- --	S.V.: ≤25	Aquatic life[b].
Turbidity - NTU	-- --	S.V.: ≤10	Aquatic life[b] and municipal or domestic supply.
Color - PCU	--	e	Aquatic life[b] and municipal or domestic supply.
Total Dissolved Solids - mg/l	--	c	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Alkalinity (as $CaCO_3$) - mg/l	-- --	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform - No./100 ml	A.G.M.: ≤50 S.V.: ≤100	≤200/400[d]	~~[Water contact recreation[b], noncontact recreation.]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli (No./100 ml) Annual Geometric Mean Single Value	***-- --***	***≤126 ≤235***	***Recreation involving contact with the water[b] and recreation not involving contact with the water.***

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. The salinity standard for the Colorado River System is specified in NAC 445A.143.

d. 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.

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

f. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 45. NAC 445A.203 is hereby amended to read as follows:

445A.203

STANDARDS OF WATER QUALITY

Humboldt River

Control Point near Osino. The limits in this table apply from the control point near 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 - ΔT - Single Value[a]	ΔT = 0°C	ΔT ≤2°C	Aquatic life (warm-water fishery)[b], ~~[water contact recreation.]~~ ***and recreation involving contact***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
			with the water.
pH Units Standard Units	A-Avg.: 7.0 - 8.3 S.V.: 7.0 - 8.5	S.V.: 6.5 - 9.0 ΔpH: ±0.5	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life (warm-water fishery), irrigation, ~~[stock watering,]~~ ***watering of livestock,*** 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,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Chlorides - mg/l	A-Avg.: ≤22 S.V.: ≤25	S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation, irrigation and stock watering.]~~ ***propagation of wildlife, irrigation and watering of livestock.***
Total Phosphorus (as P) - mg/l	--	Apr.-Nov. Seasonal Avg.: ≤0.1	Aquatic life (warm-water fishery)[b], bathing and ~~[water contact recreation,]~~ ***recreation involving contact with the water,*** municipal or domestic

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
			supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
~~[Nitroten]~~ ***Nitrogen*** species (N) - mg/l	Total Nitrogen A-Avg.: ≤1.5 Apr.-Nov. S.V.: ≤2.4	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]~~ ***propagation of wildlife, irrigation, watering of livestock*** and aquatic life (warm-water fishery).
Total Ammonia (as N) - mg/l	***--***	***f***	***Aquatic life[b].***
Total Dissolved Solids - mg/l	A-Avg.: ≤370 S.V.: ≤385	A-Avg.: ≤500	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Suspended Solids - mg/l	--	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	--	S.V.: ≤50	Aquatic life (warm-water fishery)[b], ***and*** municipal or domestic supply.
Fecal Coliform -	Annual Geometric		~~[Contact recreation[b], noncontact recreation,]~~

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
No./100 ml	Mean: ≤75 S.V.: ≤200	≤200/400[c]	***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli ~~[No./100 ml]~~ ***(No./100 ml)*** ***Annual Geometric Mean*** ***Single Value***	 -- *--*	~~[Annual Geometric Mean: ≤126 S.V.: ≤406]~~ ***≤126*** ***≤410***	~~[Contact recreation[b], noncontact recreation, municipal or domestic supply, irrigation, wildlife propagation and stock watering.]~~ ***Recreation involving contact with the water[b] and recreation not involving contact with the water.***
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.

f. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 46. 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 of this table apply from the control point at Palisade Gage upstream to the Osino control point.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C - ΔT - Single Value[a]	ΔT = 0°C	ΔT ≤2°C	Aquatic life (warm-water fishery)[b] ~~[, water contact recreation.]~~ ***and recreation involving contact with the water.***
pH Units Standard Units	A-Avg.: 7.0 - 8.5 S.V.: 7.0 - 8.6	S.V.: 6.5 - 9.0 ΔpH: ±0.5	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life (warm-water fishery), irrigation, ~~[stock watering,]~~ ***watering of livestock,*** municipal or domestic supply and industrial supply.
Dissolved			Aquatic life (warm-water fishery)[b], ~~[water contact~~

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Oxygen - mg/l	--	S.V.: ≥5.0	~~recreation, wildlife propagation, stock watering.]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Chlorides - mg/l	A-Avg.: ≤21 S.V.: ≤30	S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation, irrigation and stock watering.]~~ ***propagation of wildlife, irrigation and watering of livestock.***
Total Phosphorus (as P) - mg/l	--	Apr.-Nov. Seasonal Avg.: ≤0.1	Aquatic life (warm-water fishery)[b], bathing and ~~[water contact recreation,]~~ ***recreation involving contact with the water,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen species (N) - mg/l	Total Nitrogen A-Avg.: ≤1.4 Apr.-Nov. S.V.: ≤2.4	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]~~ ***propagation of wildlife, irrigation, watering of livestock,*** and aquatic life (warm-water fishery).
Total Ammonia (as N) - mg/l	***--***	***f***	***Aquatic life[b].***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Total Dissolved Solids - mg/l	A-Avg.: ≤350 S.V.: ≤400	A-Avg.: ≤500	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Suspended Solids - mg/l	--	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	--	S.V.: ≤50	Aquatic life (warm-water fishery)[b], ***and*** municipal or domestic supply.
Fecal Coliform - No./100 ml	Annual Geometric Mean: ≤20 S.V.: ≤150	≤200/400[c]	~~[Contact recreation[b], noncontact recreation,]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli ~~[No./100 ml]~~ ***(No./100 ml) Annual Geometric***		~~[Annual Geometric Mean: ≤126 S.V.: ≤406]~~	~~[Contact recreation[b], noncontact recreation, municipal or domestic supply, irrigation, wildlife propagation and stock watering.]~~ ***Recreation involving contact with the water[b] and recreation***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Mean	--	***≤126***	***not involving contact with the water.***
Single Value	***--***	***≤410***	
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.

f. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 47. 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 of 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 - ΔT - Single Value[a]	ΔT = 0°C	ΔT ≤2°C	Aquatic life (warm-water fishery)[b] ~~[, water contact recreation.]~~ ***and recreation involving contact with the water.***
pH Units Standard Units	A-Avg.: 7.0 - 8.4 S.V.: 7.0 - 8.6	S.V.: 6.5 - 9.0 ΔpH: ±0.5	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life (warm-water fishery), irrigation, ~~[stock watering,]~~ ***watering of livestock,*** 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,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Chlorides - mg/l	A-Avg.: ≤50	S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife~~

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
	S.V.: ≤70		~~propagation, irrigation and stock watering.~~] ***propagation of wildlife, irrigation and watering of livestock.***
Total Phosphorus (as P) - mg/l	--	Apr.-Nov. Seasonal Avg.: ≤0.1	Aquatic life (warm-water fishery)[b], bathing and ~~[water contact recreation,]~~ ***recreation involving contact with the water,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen species (N) - mg/l	Total Nitrogen A-Avg.: ≤1.9 Apr.-Nov. S.V.: ≤4.0	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]~~ ***propagation of wildlife, irrigation, watering of livestock*** and aquatic life (warm-water fishery).
Total Ammonia (as N) - mg/l	***--***	***f***	***Aquatic life[b].***
Total Dissolved Solids - mg/l	A-Avg.: ≤425 S.V.: ≤520	A-Avg.: ≤500	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Suspended Solids - mg/l	--	Annual Median: ≤80[e]	Aquatic life (warm-water fishery)[b].
Sulfate - mg/l	--	S.V.: ≤250	Municipal or domestic supply.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Color - PCU	d	No Adverse Effects	Municipal or domestic supply[b].
Turbidity - NTU	--	S.V.: ≤50	Aquatic life (warm-water fishery)[b], ***and*** municipal or domestic supply.
Fecal Coliform - No./100 ml	Annual Geometric Mean: ≤50 S.V.: ≤200	≤200/400[c]	~~[Contact recreation[b] noncontact recreation,]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli ~~[No./100 ml]~~ ***(No./100 ml)*** ***Annual Geometric Mean*** ***Single Value***	--	~~[Annual Geometric Mean: ≤126 S.V.: ≤406]~~ ***≤126*** ***≤410***	~~[Contact recreation[b], noncontact recreation, municipal or domestic supply, irrigation, wildlife propagation and stock watering.]~~ ***Recreation involving contact with the water[b] and recreation not involving contact with the water.***
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.

f. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 48. NAC 445A.206 is hereby amended to read as follows:

445A.206

STANDARDS OF WATER QUALITY

Humboldt River

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

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C - ΔT - Single Value[a]	ΔT = 0°C	ΔT ≤2°C	Aquatic life (warm-water fishery)[b] ~~[, water contact recreation.]~~ ***and recreation involving contact with the water.***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
pH Units Standard Units	A-Avg.: 7.0 - 8.5 S.V.: 7.0 - 8.7	S.V.: 6.5 - 9.0 ΔpH: ±0.5	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life (warm-water fishery), irrigation, ~~[stock watering,]~~ ***watering of livestock,*** 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,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Chlorides - mg/l	A-Avg.: ≤60 S.V.: ≤110	S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation, irrigation and stock watering.]~~ ***propagation of wildlife, irrigation and watering of livestock.***
Total Phosphorus (as P) - mg/l	--	Apr.-Nov. Seasonal Avg.: ≤0.1	Aquatic life (warm-water fishery)[b], bathing and ~~[water contact recreation,]~~ ***recreation involving contact with the water,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Nitrogen species (N) - mg/l	Total Nitrogen A-Avg.: ≤2.9 Apr.-Nov. S.V.: ≤3.7	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]~~ ***propagation of wildlife, irrigation, watering of livestock*** and aquatic life (warm-water fishery).
Total Ammonia (as N) - mg/l	***--***	***f***	***Aquatic life[b].***
Total Dissolved Solids - mg/l	A-Avg.: ≤500 S.V.: ≤560	A-Avg.: ≤500	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Suspended Solids - mg/l	--	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	--	S.V.: ≤50	Aquatic life (warm-water fishery)[b], ***and*** municipal or domestic supply.
Fecal Coliform - No./100 ml	Annual Geometric Mean: ≤40 S.V.: ≤100	≤200/400[c]	~~[Contact recreation[b], noncontact recreation,]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
			municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli ~~[No./100 ml]~~ ***(No./100 ml)*** ***Annual Geometric Mean*** ***Single Value***	 -- *--*	~~[Annual Geometric Mean: ≤126 S.V.: ≤406]~~ ***≤126*** ***≤410***	~~[Contact recreation[b], noncontact recreation, municipal or domestic supply, irrigation, wildlife propagation and stock watering.]~~ ***Recreation involving contact with the water[b] and recreation not involving contact with the water.***
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.

f. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 49. NAC 445A.207 is hereby amended to read as follows:

445A.207

STANDARDS OF WATER QUALITY

Humboldt River

Control Point at Imlay. The limits of 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 - ΔT - Single Value[a]	ΔT = 0°C	ΔT ≤2°C	Aquatic life (warm-water fishery)[b] ~~[, water contact recreation.]~~ ***and recreation involving contact with the water.***
pH Units Standard Units	A-Avg.: 7.0 - 8.5 S.V.: 7.0 - 8.7	S.V.: 6.5 - 9.0 ΔpH: ±0.5	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life (warm-water fishery), irrigation, ~~[stock watering,]~~ ***watering of livestock,*** 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,]~~ ***recreation involving contact with the water,***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
			propagation of wildlife, watering of livestock, municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Chlorides - mg/l	A-Avg.: ≤70 S.V.: ≤85	S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation, irrigation and stock watering.]~~ ***propagation of wildlife, irrigation and watering of livestock.***
Total Phosphorus (as P) - mg/l	--	Apr.-Nov. Seasonal Avg.: ≤0.1	Aquatic life (warm-water fishery)[b], bathing and ~~[water contact recreation,]~~ ***recreation involving contact with the water,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen species (N) – mg/l	Total Nitrogen A-Avg.: ≤2.4 Apr.-Nov. S.V.: ≤2.9	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]~~ ***propagation of wildlife, irrigation, watering of livestock*** and aquatic life (warm-water fishery).
Total Ammonia (as N) – mg/l	***--***	***f***	***Aquatic life[b].***
Total Dissolved	S.V.: ≤590	A-Avg.: ≤500	Municipal or domestic supply[b], irrigation and

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Solids - mg/l			~~[stock watering.]~~ ***watering of livestock.***
Suspended Solids - mg/l	--	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	--	S.V.: ≤50	Aquatic life (warm-water fishery)[b], ***and*** municipal or domestic supply.
Fecal Coliform - No./100 ml	Annual Geometric Mean: ≤30 S.V.: ≤150	≤200/400[c]	~~[Contact recreation[b], noncontact recreation,]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli ~~[No./100 ml]~~ ***(No./100 ml)*** ***Annual Geometric Mean*** ***Single Value***	-- *--*	~~[Annual Geometric Mean: ≤126 S.V.: ≤406]~~ ***≤126*** ***≤410***	~~[Contact recreation[b], noncontact recreation, municipal or domestic supply, irrigation, wildlife propagation and stock watering.]~~ ***Recreation involving contact with the water[b] and recreation not involving contact with the water.***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
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.

f. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 50. NAC 445A.208 is hereby amended to read as follows:

445A.208

STANDARDS OF WATER QUALITY

Humboldt River

Control Point at Woolsey. The limits of 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 - ΔT - Single Value[a]	ΔT = 0°C	ΔT ≤2°C	Aquatic life (warm-water fishery)[b] ~~[, water contact recreation.]~~ ***and recreation involving contact with the water.***
pH Units Standard Units	A-Avg.: 7.0 - 8.9 S.V.: 7.0 - 9.0	S.V.: 6.5 - 9.0 ΔpH: ±0.5	~~[Water contact recreation[b], wildlife propagation[b],]~~ ***Recreation involving contact with the water[b], propagation of wildlife[b],*** aquatic life (warm-water fishery), irrigation, ~~[stock watering,]~~ ***watering of livestock,*** 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,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Chlorides - mg/l	A-Avg.: ≤130 S.V.: ≤175	S.V.: ≤250	Municipal or domestic supply[b], ~~[wildlife propagation, irrigation and stock watering.]~~ ***propagation of wildlife, irrigation and watering of livestock.***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Total Phosphorus (as P) - mg/l	--	Apr.-Nov. Seasonal Avg.: ≤0.1	Aquatic life (warm-water fishery)[b], bathing and ~~[water contact recreation,]~~ ***recreation involving contact with the water,*** municipal or domestic supply and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen species (N) - mg/l	--	Nitrate S.V.: ≤10 Nitrite S.V.: ≤1.0 ~~[Ammonia S.V.: ≤0.02]~~	Municipal or domestic supply[b], ~~[wildlife propagation, irrigation, stock watering]~~ ***propagation of wildlife, irrigation, watering of livestock*** and aquatic life (warm-water fishery).
Total Ammonia (as N) - mg/l	***--***	***f***	***Aquatic life[b].***
Total Dissolved Solids - mg/l	A-Avg.: ≤600 S.V.: ≤700	A-Avg.: ≤1000	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Suspended Solids - mg/l	--	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	--	S.V.: ≤50	Aquatic life (warm-water fishery)[b], ***and*** municipal

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
			or domestic supply.
Fecal Coliform - No./100 ml	Annual Geometric Mean: ≤100 S.V.: ≤200	≤200/400[c]	~~[Contact recreation[b], noncontact recreation,]~~ ***Recreation involving contact with the water[b], recreation not involving contact with the water,*** municipal or domestic supply, irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli ~~[No./100 ml]~~ ***(No./100 ml)*** ***Annual Geometric Mean*** ***Single Value***	-- *--*	~~[Annual Geometric Mean: ≤126 S.V.: ≤406]~~ ***≤126*** ***≤410***	~~[Contact recreation[b], noncontact recreation, municipal or domestic supply, irrigation, wildlife propagation and stock watering.]~~ ***Recreation involving contact with the water[b] and recreation not involving contact with the water.***
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.

f. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 51. NAC 445A.210 is hereby amended to read as follows:

445A.210

STANDARDS OF WATER QUALITY

Muddy River

Control Point at Glendale Bridge. The limits of this table apply from the Glendale Bridge upstream to the river source.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C - Maximum ΔT[a]	 ΔT = 0°C	Nov.-Jun.: ≤21°C Jul.-Oct.: ≤32°C ΔT ≤2°C	Aquatic life[b].
pH Units	--	S.V.: ~~[7.0]~~ ***6.5*** - 9.0 ΔpH: ±0.5 Max.	~~[Wildlife propagation[b],]~~ ***Propagation of wildlife[b],*** aquatic life[b], ~~[noncontact recreation, irrigation, stock watering,]~~ ***recreation not involving contact with the water, irrigation, watering of livestock,*** municipal or domestic supply and industrial

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
			supply
Total Phosphates (as P) - mg/l	--	A-Avg.: ≤0.1	Aquatic life[b], ~~[noncontact recreation,]~~ ***recreation not involving contact with the water,*** and municipal or domestic supply.
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: ≤1.3 S.V.: ≤1.4	Nitrate S.V.: ≤10 Nitrite S.V.: ≤1.0 ~~[Ammonia S.V.: ≤.06 (un-ionized)]~~	Municipal or domestic supply[b], aquatic life, ~~[water contact recreation, stock watering, wildlife propagation and noncontact recreation.]~~ ***recreation involving contact with the water, watering of livestock, propagation of wildlife and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***f***	***Aquatic life[b].***
Dissolved Oxygen - mg/l	--	S.V.: ≤5.0	Aquatic life[b], ~~[noncontact recreation, wildlife propagation, stock watering]~~ ***recreation not involving contact with the water, propagation of wildlife, watering of livestock,*** and municipal or domestic supply.
Turbidity – NTU	--	e	Aquatic life[b] and municipal or domestic supply.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Color - PCU	--	d	Aquatic life[b] and municipal or domestic supply.
Total Dissolved Solids - mg/l	--	c	Municipal or domestic supply[b], irrigation and ~~[stock watering.]~~ ***watering of livestock.***
Alkalinity (as $CaCO_3$) - mg/l	--	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform - No./100 ml	-- --	A.G.M.: ≤1000 S.V.: ≤2000	~~[Noncontact recreation[b],]~~ ***Recreation not involving contact with the water[b],*** municipal or domestic supply[b], irrigation, ~~[wildlife propagation and stock watering.]~~ ***propagation of wildlife and watering of livestock.***
E. Coli (No./100 ml) Annual Geometric Mean	***--***	***≤630***	***Recreation not involving contact with the water[b].***

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. The salinity standard for the Colorado River System is specified in NAC 445A.143.

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

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

f. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 52. NAC 445A.211 is hereby amended to read as follows:

445A.211

STANDARDS OF WATER QUALITY

Muddy River

Control Point at Overton. The limits of this table apply from the mouth of the river at Lake Mead to the Glendale Bridge.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C - Maximum ΔT[a]	 ΔT = 0°C [a]	Nov.-Jun.: ≤21°C Jul.-Oct.: ≤32°C ΔT ≤2°C	Aquatic life[b].
pH Units	--	S.V.: ~~[7.0]~~ ***6.5*** - 9.0 ΔpH: ±0.5 Max.	~~[Wildlife propagation[b],]~~ ***Propagation of wildlife[b],*** aquatic life[b], ~~[noncontact recreation, irrigation, stock watering]~~ ***recreation not involving contact with the water, irrigation, watering of livestock and*** industrial supply.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Total Phosphates (as P) - mg/l	--	A-Avg.: ≤0.3	Aquatic life[b] and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: ≤1.3 S.V.: ≤1.8	Nitrate S.V.: ≤90 Nitrite S.V.: ≤5.0 ~~[Ammonia S.V.: ≤.06 (un-ionized)]~~	Aquatic life[b], ~~[stock watering, wildlife propagation and noncontact recreation.]~~ ***watering of livestock, propagation of wildlife and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***f***	***Aquatic life[b].***
Dissolved Oxygen - mg/l	--	S.V.: ≥5.0	Aquatic life[b], ~~[noncontact recreation, wildlife propagation and stock watering.]~~ ***recreation not involving contact with the water, propagation of wildlife and watering of livestock.***
Turbidity - NTU	--	e	Aquatic life[b].
Color - PCU	--	d	Aquatic life[b].
Total Dissolved Solids - mg/l	--	c	Irrigation[b] and ~~[stock watering.]~~ ***watering of livestock.***
Alkalinity (as $CaCO_3$) - mg/l	--	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Fecal Coliform - No./100 ml	A.G.M.: ≤500 S.V.: ≤1300	A.G.M.: ≤1000 S.V.: ≤2000	~~[Noncontact recreation[b] irrigation, wildlife propagation and stock watering.]~~ ***Recreation not involving contact with the water[b], irrigation, propagation of wildlife and watering of livestock.***
E. Coli (No./100 ml) Annual Geometric Mean	***--***	***≤630***	***Recreation not involving contact with the water[b].***

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. The salinity standard for the Colorado River System is specified in NAC 445A.143.

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

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

f. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 53. NAC 445A.212 is hereby amended to read as follows:

445A.212

STANDARDS OF WATER QUALITY

Meadow Valley Wash

Control Point at confluence with Muddy River. The limits of this table apply from the confluence of the Meadow Valley Wash with the Muddy River to the bridge above Rox.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C - Maximum ΔT[a]	 $\Delta T = 0°C$	Nov.-Jun.: ≤21°C Jul.-Oct.: ≤32°C $\Delta T \leq 2°C$	Aquatic life[b].
pH Units	--	S.V.: ~~[7.0]~~ ***6.5*** - 9.0 ΔpH: ±0.5 Max.	~~[Wildlife propagation[b],]~~ ***Propagation of wildlife[b],*** aquatic life[b], ~~[noncontact recreation, irrigation, stock watering]~~ ***recreation not involving contact with the water, irrigation, watering of livestock*** and industrial supply.
Total Phosphates (as P) - mg/l	--	A-Avg.: ≤0.1	Aquatic life[b] and ~~[noncontact recreation.]~~ ***recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: ≤2.0 S.V.: ≤3.3	Nitrate S.V.: ≤90 Nitrite S.V.: ≤5.0 ~~[Ammonia S.V.: ≤.06~~	Aquatic life[b], ~~[stock watering, wildlife propagation and noncontact recreation.]~~ ***watering of livestock, propagation of wildlife and recreation not involving contact with the water.***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
		~~(un-ionized)]~~	
Total Ammonia (as N) - mg/l	***--***	***f***	***Aquatic life[b].***
Dissolved Oxygen - mg/l	--	S.V.: ≥5.0	Aquatic life[b], ~~[noncontact recreation, wildlife propagation, stock watering.]~~ ***recreation not involving contact with the water, propagation of wildlife and watering of livestock.***
Turbidity – NTU	--	e	Aquatic life[b].
Color - PCU	--	d	Aquatic life[b].
Total Dissolved Solids - mg/l	--	c	Irrigation[b] and ~~[stock watering.]~~ ***watering of livestock.***
Alkalinity (as $CaCO_3$) - mg/l	--	less than 25% change from natural conditions	Aquatic life[b] and ~~[wildlife propagation.]~~ ***propagation of wildlife.***
Fecal Coliform - No./100 ml	-- --	A.G.M.: ≤1000 S.V.: ≤2000	~~[Noncontact recreation[b], irrigation, wildlife propagation and stock watering.]~~ ***Recreation not involving contact with the water[b], irrigation, propagation of wildlife and watering of livestock.***

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
E. Coli (No./100 ml) Annual Geometric Mean	*--*	*≤630*	***Recreation not involving contact with the water[b].***

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. The salinity standard for the Colorado River System is specified in NAC 445A.143.

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

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

f. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 54. NAC 445A.215 is hereby amended to read as follows:

445A.215

STANDARDS OF WATER QUALITY

Big Goose Creek

Control Point at Ranch.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C Maximum a ΔT°C	ΔT = 0°	May-Oct <21° Nov-Apr <13° ΔT <1°	Aquatic life ~~[, water contact recreation.]~~ ***and recreation involving contact with the water.***
pH Units	ΔpH ±0.5	6.5 - 9.0	Aquatic life, municipal and domestic supply ~~[, water contact recreation.]~~ ***and recreation involving contact with the water.***
Total Phosphorus (as P) - mg/l	--	<0.1	Aquatic life, ~~[water contact recreation,]~~ ***recreation involving contact with the water,*** municipal and domestic supply, ~~[noncontact recreation.]~~ ***and recreation not involving contact with the water.***
Nitrogen Species (N) - mg/l	Nitrate S.V. <1.0	Nitrate S.V. <10 Nitrite S.V. <0.06 ~~[Ammonia S.V. <0.02 (un-ionized)]~~	Municipal and domestic supply, aquatic life, ~~[water contact recreation, noncontact recreation.]~~ ***recreation involving contact with the water and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***d***	***Aquatic life.***
Dissolved Oxygen in mg/l	--	>6.0	Aquatic life, ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation***

			involving contact with the water, propagation of wildlife, watering of livestock, municipal and domestic supply, ~~[noncontact recreation.]~~ ***and recreation not involving contact with the water.***
Suspended Solids - mg/l	--	S.V. <25	Aquatic life, ***and*** municipal and domestic supply.
Turbidity - NTU	--	S.V. <10	Aquatic life, ***and*** municipal and domestic supply.
Total Dissolved Solids - mg/l	S.V. <185	S.V. <500	Municipal and domestic supply, irrigation ~~[, stock watering.]~~ ***and watering of livestock.***
Chlorides - mg/l	S.V. <9.0	S.V. <250	Municipal and domestic supply, ~~[wildlife propagation, irrigation, stock watering.]~~ ***propagation of wildlife, irrigation and watering of livestock.***
Alkalinity (as CO_3) - mg/l	--	<25% change from natural conditions	Aquatic life ~~[, wildlife propagation.]~~ ***and propagation of wildlife.***
Fecal Coliform - No./100 ml	--	<200/400[b]	~~[Water contact recreation, noncontact recreation,]~~ ***Recreation involving contact with the water, recreation not involving contact with the water,*** municipal and domestic supply, irrigation ~~[, wildlife propagation.]~~ ***and propagation of wildlife.***
E. Coli (No./100 ml)			***Recreation involving contact with the water[b] and recreation not involving contact with the water.***

Annual Geometric Mean ***Single Value***	***--*** ***--***	***≤126*** ***≤410***	
Color	--	c	Municipal or domestic supply.

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 annual geometric mean must not exceed 200 per 100 milliliters nor may the number of fecal coliform in a single sample exceed 400 per 100 milliliters.

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

d. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 55. NAC 445A.216 is hereby amended to read as follows:

445A.216

STANDARDS OF WATER QUALITY

Salmon Falls Creek

Control Point at Highway 93 south of Jackpot.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C		May-Oct <21°	Aquatic life ~~[, water contact recreation.]~~ ***and***

Maximum (a) ΔT°C	ΔT = 0°	Nov-Apr <13° ΔT <1°	***recreation involving contact with the water.***
pH Units	ΔpH ±0.5	6.5 - 9.0	Aquatic life, municipal and domestic supply ~~[, water contact recreation.]~~ ***and recreation involving contact with the water.***
Total Phosphorus (as P) in mg/l	--	<0.1	Aquatic life, ~~[water contact recreation,]~~ ***recreation involving contact with the water,*** municipal and domestic supply, ~~[noncontact recreation.]~~ ***and recreation not involving contact with the water.***
Nitrogen Species (N) in mg/l	Nitrate S.V. <1.0	Nitrate S.V. <10 Nitrite S.V. <0.06 ~~[Ammonia S.V. <0.02 (un-ionized)]~~	Municipal and domestic supply, aquatic life, ~~[water contact recreation, noncontact recreation.]~~ ***recreation involving contact with the water and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***d***	***Aquatic life.***
Dissolved Oxygen in mg/l	--	>6.0	Aquatic life, ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal and domestic supply, ~~[noncontact recreation.]~~ ***and recreation not involving contact with the water.***
Suspended Solids - mg/l	--	S.V. <25	Aquatic life, ***and*** municipal and domestic supply.

Turbidity - NTU	--	S.V. <10	Aquatic life, ***and*** municipal and domestic supply.
Total Dissolved Solids - mg/l	S.V. <250	S.V. <500	Municipal and domestic supply, irrigation ~~[, stock watering.]~~ ***and watering of livestock.***
Chlorides - mg/l	S.V. <14.0	S.V. <250	Municipal and domestic supply, ~~[wildlife propagation, irrigation, stock watering.]~~ ***propagation of wildlife, irrigation and watering of livestock.***
Alkalinity (as CO_3) - mg/l	--	<25% change from natural conditions	Aquatic life ~~[, wildlife propagation.]~~ ***and propagation of wildlife.***
Fecal Coliform - No./100 ml	-- S.V. <90	<200/400[b]	~~[Water contact recreation, noncontact recreation,]~~ ***Recreation involving contact with the water, recreation not involving contact with the water,*** municipal and domestic supply, irrigation ~~[, wildlife propagation.]~~ ***and propagation of wildlife.***
E. Coli (No./100 ml) Annual Geometric Mean Single Value	***-- --***	***≤126 ≤410***	***Recreation involving contact with the water[b] and recreation not involving contact with the water.***
Color	--	c	Municipal or domestic supply.

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 annual geometric mean must not exceed 200 per 100 milliliters nor may the number of fecal coliform in a single sample exceed 400 per 100 milliliters.

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

d. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 56. NAC 445A.217 is hereby amended to read as follows:

445A.217

STANDARDS OF WATER QUALITY

Shoshone Creek

Control Point: Jackpot to Delaplain Road.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C Maximum (a) ΔT°C	ΔT = 0°	May-Oct <21° Nov-Apr <13° ΔT <1°	Aquatic life ~~[, water contact recreation.]~~ ***and recreation involving contact with the water.***
pH Units	ΔpH ±0.5	6.5 - 9.0	Aquatic life, municipal and domestic supply ~~[, water contact recreation.]~~ ***and recreation involving contact with the water.***

Total Phosphorus (as P) in mg/l	--	<0.1	Aquatic life, ~~[water contact recreation,]~~ ***recreation involving contact with the water,*** municipal and domestic supply, ~~[noncontact recreation.]~~ ***and recreation not involving contact with the water.***
Nitrogen Species (as N) in mg/l	Nitrate S.V. <1.0	Nitrate S.V. <10 Nitrite S.V. <0.06 ~~[Ammonia S.V. <0.02 (un-ionized)]~~	Municipal and domestic supply, aquatic life, ~~[water contact recreation, noncontact recreation.]~~ ***recreation involving contact with the water and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***d***	***Aquatic life.***
Dissolved Oxygen in mg/l	--	>6.0	Aquatic life, ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal and domestic supply, ~~[noncontact recreation.]~~ ***and recreation not involving contact with the water.***
Suspended Solids - mg/l	--	S.V. <25	Aquatic life, ***and*** municipal and domestic supply.
Turbidity - NTU	--	S.V. <10	Aquatic life, ***and*** municipal and domestic supply.
Total Dissolved Solids - mg/l	S.V. <250	S.V. <500	Municipal and domestic supply, irrigation ~~[, stock watering.]~~ ***and watering of livestock.***

Chlorides - mg/l	S.V. <15.0	S.V. <250	Municipal and domestic supply, ~~[wildlife propagation, irrigation, stock watering.]~~ ***propagation of wildlife, irrigation and watering of livestock.***
Alkalinity (as CO_3) - mg/l	--	<25% change from natural conditions	Aquatic life ~~[, wildlife propagation.]~~ ***and propagation of wildlife.***
Fecal Coliform - No./100 ml	--	<200/400[b]	~~[Water contact recreation, noncontact recreation,]~~ ***Recreation involving contact with the water, recreation not involving contact with the water,*** municipal and domestic supply, irrigation ~~[, wildlife propagation.]~~ ***and propagation of wildlife.***
E. Coli (No./100 ml)			***Recreation involving contact with the water[b] and recreation not involving contact with the water.***
Annual Geometric Mean	***--***	***≤126***	
Single Value	***--***	***≤410***	
Color	--	c	Municipal or domestic supply.

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 annual geometric mean must not exceed 200 per 100 milliliters nor may the number of fecal coliform in a single sample exceed 400 per 100 milliliters.

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

d. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 57. NAC 445A.218 is hereby amended to read as follows:

445A.218

STANDARDS OF WATER QUALITY

East Fork Jarbidge River

Control Point at the Nevada-Idaho state line.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C Maximum (a) ΔT°C	ΔT = 0°	May-Oct <21° Nov-Apr <7° ΔT <1°	Aquatic life ~~[, water contact recreation.]~~ ***and recreation involving contact with the water.***
pH Units	ΔpH ±0.5	6.5 - 9.0	Aquatic life, municipal and domestic supply ~~[, water contact recreation.]~~ ***and recreation involving contact with the water.***
Total Phosphorus (as P) in mg/l	--	<0.1	Aquatic life, ~~[water contact recreation,]~~ ***recreation involving contact with the water,*** municipal and domestic supply, ~~[noncontact recreation.]~~ ***and recreation not involving contact with the water.***
Nitrogen Species		Nitrate S.V. <10	Municipal and domestic supply, aquatic life,

(as N) in mg/l	Nitrate S.V. <1.0	Nitrite S.V. <0.06 ~~[Ammonia S.V. <0.02 (un-ionized)]~~	~~[water contact recreation, noncontact recreation.]~~ ***recreation involving contact with the water and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***d***	***Aquatic life.***
Dissolved Oxygen in mg/l	--	> 6.0	Aquatic life, ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal and domestic supply, ~~[noncontact recreation.]~~ ***and recreation not involving contact with the water.***
Suspended Solids - mg/l	--	S.V. <25	Aquatic life, ***and*** municipal and domestic supply.
Turbidity - NTU	--	S.V. <10	Aquatic life, ***and*** municipal and domestic supply.
Total Dissolved Solids - mg/l	S.V. <200	S.V. <500	Municipal and domestic supply, irrigation ~~[, stock watering.]~~ ***and watering of livestock.***
Chlorides - mg/l	S.V. <6.0	S.V. <250	Municipal and domestic supply, ~~[wildlife propagation, irrigation, stock watering.]~~ ***propagation of wildlife, irrigation and watering of livestock.***
Alkalinity (as CO_3) - mg/l	--	<25% change from natural conditions	Aquatic life ~~[, wildlife propagation.]~~ ***and propagation of wildlife.***

Fecal Coliform - No./100 ml	-- S.V. <100	<200/400[b]	~~[Water contact recreation, noncontact recreation,]~~ ***Recreation involving contact with the water, recreation not involving contact with the water,*** municipal and domestic supply, irrigation ~~[, wildlife propagation.]~~ ***and propagation of wildlife.***
E. Coli (No./100 ml) Annual Geometric Mean Single Value	***-- --***	***≤126 ≤410***	***Recreation involving contact with the water[b] and recreation not involving contact with the water.***
Color	--	c	Municipal or domestic supply.

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 annual geometric mean must not exceed 200 per 100 milliliters nor may the number of fecal coliform in a single sample exceed 400 per 100 milliliters.

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

d. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 58. NAC 445A.219 is hereby amended to read as follows:

445A.219

STANDARDS OF WATER QUALITY

Jarbidge River

Control Point upstream from Jarbidge at bridge.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C Maximum (a) ΔT°C	ΔT = 0°	May-Oct <21° Nov-Apr <7° ΔT <1°	Aquatic life ~~[, water contact recreation.]~~ ***and recreation involving contact with the water.***
pH Units	ΔpH ±0.5	6.5 - 9.0	Aquatic life, municipal and domestic supply ~~[, water contact recreation.]~~ ***and recreation involving contact with the water.***
Total Phosphorus (as P) in mg/l	S.V. <0.05	<0.1	Aquatic life, ~~[water contact recreation,]~~ ***recreation involving contact with the water,*** municipal and domestic supply, ~~[noncontact recreation.]~~ ***and recreation not involving contact with the water.***
Nitrogen Species (as N) in mg/l	Nitrate S.V. <1.0	Nitrate S.V. <10 Nitrite S.V. <0.06 ~~[Ammonia S.V. <0.02 (un-ionized)]~~	Municipal and domestic supply, aquatic life, ~~[water contact recreation, noncontact recreation.]~~ ***recreation involving contact with the water and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***d***	***Aquatic life.***
Dissolved			Aquatic life, ~~[water contact recreation, wildlife~~

Oxygen in mg/l	--	>6.0	~~propagation, stock watering,~~] ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal and domestic supply, ~~[noncontact recreation.]~~ ***and recreation not involving contact with the water.***
Suspended Solids - mg/l	--	S.V. <25	Aquatic life, ***and*** municipal and domestic supply.
Turbidity - NTU	--	S.V. <10	Aquatic life, ***and*** municipal and domestic supply.
Total Dissolved Solids - mg/l	S.V. <65	S.V. <500	Municipal and domestic supply, irrigation ~~[, stock watering.]~~ ***and watering of livestock.***
Chlorides - mg/l	S.V. <7.0	S.V. <250	Municipal and domestic supply, ~~[wildlife propagation, irrigation, stock watering.]~~ ***propagation of wildlife, irrigation and watering of livestock.***
Alkalinity (as CO_3) - mg/l	--	<25% change from natural conditions	Aquatic life ~~[, wildlife propagation.]~~ ***and propagation of wildlife.***
Fecal Coliform - No./100 ml	S.V. <10	<200/400[b]	~~[Water contact recreation, noncontact recreation,]~~ ***Recreation involving contact with the water, recreation not involving contact with the water,*** municipal and domestic supply, irrigation ~~[, wildlife propagation.]~~ ***and propagation of wildlife.***
E. Coli			***Recreation involving contact with the water[b] and***

(No./100 ml) *Annual Geometric* *Mean* *Single Value*	 *--* *--*	 *≤126* *≤410*	***recreation not involving contact with the water.***
Color	--	c	Municipal or domestic supply.

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 annual geometric mean must not exceed 200 per 100 milliliters nor may the number of fecal coliform in a single sample exceed 400 per 100 milliliters.

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

d. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 59. NAC 445A.220 is hereby amended to read as follows:

445A.220

STANDARDS OF WATER QUALITY

Jarbidge River

Control Point downstream from Jarbidge at bridge.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES

Temperature °C Maximum (a) ΔT°C	ΔT = 0°	May-Oct <21° Nov-Apr <7° ΔT <1°	Aquatic life ~~[, water contact recreation.]~~ ***and recreation involving contact with the water.***
pH Units	ΔpH ±0.5	6.5 - 9.0	Aquatic life, municipal and domestic supply ~~[, water contact recreation.]~~ ***and recreation involving contact with the water.***
Total Phosphorus (as P) in mg/l	S.V. <0.05	<0.1	Aquatic life, ~~[water contact recreation,]~~ ***recreation involving contact with the water,*** municipal and domestic supply, ~~[noncontact recreation.]~~ ***and recreation not involving contact with the water.***
Nitrogen Species (as N) in mg/l	Nitrate S.V. <1.0	Nitrate S.V. <10 Nitrite S.V. <0.06 ~~[Ammonia S.V. <0.02 (un-ionized)]~~	Municipal and domestic supply, aquatic life, ~~[water contact recreation, noncontact recreation.]~~ ***recreation involving contact with the water and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***d***	***Aquatic life.***
Dissolved Oxygen in mg/l	--	> 6.0	Aquatic life, ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal and domestic supply, ~~[noncontact recreation.]~~ ***and recreation not involving contact with the water.***
Suspended			Aquatic life, ***and*** municipal and domestic supply.

Solids - mg/l	--	S.V. <25	
Turbidity - NTU	--	S.V. <10	Aquatic life, ***and*** municipal and domestic supply.
Total Dissolved Solids - mg/l	S.V. <80	S.V. <500	Municipal and domestic supply, irrigation ~~[, stock watering.]~~ ***and watering of livestock.***
Chlorides - mg/l	S.V. <7.0	S.V. <250	Municipal and domestic supply, ~~[wildlife propagation, irrigation, stock watering.]~~ ***propagation of wildlife, irrigation and watering of livestock.***
Alkalinity (as CO_3) - mg/l	--	<25% change from natural conditions	Aquatic life ~~[, wildlife propagation.]~~ ***and propagation of wildlife.***
Fecal Coliform - No./100 ml	--	<200/400[b]	~~[Water contact recreation, noncontact recreation,]~~ ***Recreation involving contact with the water, recreation not involving contact with the water,*** municipal and domestic supply, irrigation ~~[, wildlife propagation.]~~ ***and propagation of wildlife.***
E. Coli (No./100 ml) Annual Geometric Mean Single Value	***-- --***	***≤126 ≤410***	***Recreation involving contact with the water[b] and recreation not involving contact with the water.***
Color	--	c	Municipal or domestic supply.

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 annual geometric mean must not exceed 200 per 100 milliliters nor may the number of fecal coliform in a single sample exceed 400 per 100 milliliters.

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

d. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 60. NAC 445A.221 is hereby amended to read as follows:

445A.221

STANDARDS OF WATER QUALITY

Bruneau River

Control Point at Diamond "A" Road.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C Maximum (a) ΔT°C	ΔT = 0°	May-Oct <21° Nov-Apr <7° ΔT <1°	Aquatic life ~~[, water contact recreation.]~~ ***and recreation involving contact with the water.***
pH Units	ΔpH ±0.5	6.5 - 9.0	Aquatic life, municipal and domestic supply ~~[, water contact recreation.]~~ ***and recreation involving contact with the water.***

Total Phosphorus (as P) in mg/l	--	<0.1	Aquatic life, ~~[water contact recreation,]~~ ***recreation involving contact with the water,*** municipal and domestic supply, ~~[noncontact recreation.]~~ ***and recreation not involving contact with the water.***
Nitrogen Species (as N) in mg/l	Nitrate S.V. <1.0	Nitrate S.V. <10 Nitrite S.V. <0.06 ~~[Ammonia S.V. <0.02 (un-ionized)]~~	Municipal and domestic supply, aquatic life, ~~[water contact recreation, noncontact recreation.]~~ ***recreation involving contact with the water and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***d***	***Aquatic life.***
Dissolved Oxygen in mg/l	--	>6.0	Aquatic life, ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal and domestic supply, ~~[noncontact recreation.]~~ ***and recreation not involving contact with the water.***
Suspended Solids - mg/l	--	S.V. <25	Aquatic life, ***and*** municipal and domestic supply.
Turbidity - NTU	--	S.V. <10	Aquatic life, ***and*** municipal and domestic supply.
Total Dissolved Solids - mg/l	S.V. <180	S.V. <500	Municipal and domestic supply, irrigation ~~[, stock watering.]~~ ***and watering of livestock.***

Chlorides - mg/l	S.V. <7.0	S.V. <250	Municipal and domestic supply, ~~[wildlife propagation, irrigation, stock watering.]~~ ***propagation of wildlife, irrigation and watering of livestock.***
Alkalinity (as CO_3) - mg/l	--	<25% change from natural conditions	Aquatic life ~~[, wildlife propagation.]~~ ***and propagation of wildlife.***
Fecal Coliform - No./100 ml	-- S.V. <80	<200/400[b]	~~[Water contact recreation, noncontact recreation,]~~ ***Recreation involving contact with the water, recreation not involving contact with the water,*** municipal and domestic supply, irrigation ~~[, wildlife propagation.]~~ ***and propagation of wildlife.***
E. Coli (No./100 ml) Annual Geometric Mean Single Value	***-- --***	***≤126 ≤410***	***Recreation involving contact with the water[b] and recreation not involving contact with the water.***
Color	--	c	Municipal or domestic supply.

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 annual geometric mean must not exceed 200 per 100 milliliters nor may the number of fecal coliform in a single sample exceed 400 per 100 milliliters.

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

d. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 61. NAC 445A.222 is hereby amended to read as follows:

445A.222

STANDARDS OF WATER QUALITY

Owyhee River

Control Point above Mill Creek.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C Maximum (a) ΔT°C	ΔT = 0°	May-Oct <21° Nov-Apr <7° ΔT <1°	Aquatic life ~~[, water contact recreation.]~~ ***and recreation involving contact with the water.***
pH Units	ΔpH ±0.5	6.5 - 9.0	Aquatic life, municipal and domestic supply ~~[, water contact recreation.]~~ ***and recreation involving contact with the water.***
Total Phosphorus (as P) in mg/l	--	<0.1	Aquatic life, ~~[water contact recreation,]~~ ***recreation involving contact with the water,*** municipal and domestic supply, ~~[noncontact recreation.]~~ ***and recreation not involving contact with the water.***
Nitrogen Species		Nitrate S.V. <10	Municipal and domestic supply, aquatic life,

(as N) in mg/l	Nitrate S.V. <1.0	Nitrite S.V. <0.06 ~~[Ammonia S.V. <0.02 (un-ionized)]~~	~~[water contact recreation, noncontact recreation.]~~ ***recreation involving contact with the water and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***d***	***Aquatic life.***
Dissolved Oxygen in mg/l	--	>6.0	Aquatic life, ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal and domestic supply, ~~[noncontact recreation.]~~ ***and recreation not involving contact with the water.***
Suspended Solids - mg/l	--	S.V. <25	Aquatic life, ***and*** municipal and domestic supply.
Turbidity - NTU	--	S.V. <10	Aquatic life, ***and*** municipal and domestic supply.
Total Dissolved Solids - mg/l	S.V. <200	S.V. <500	Municipal and domestic supply, irrigation ~~[, stock watering.]~~ ***and watering of livestock.***
Chlorides - mg/l	S.V. <8.0	S.V. <250	Municipal and domestic supply, ~~[wildlife propagation, irrigation, stock watering.]~~ ***propagation of wildlife, irrigation and watering of livestock.***
Alkalinity (as CO_3) - mg/l	--	<25% change from natural conditions	Aquatic life ~~[, wildlife propagation.]~~ ***and propagation of wildlife.***

Fecal Coliform - No./100 ml	--	<200/400[b]	~~[Water contact recreation, noncontact recreation,]~~ ***Recreation involving contact with the water, recreation not involving contact with the water,*** municipal and domestic supply, irrigation ~~[, wildlife propagation.]~~ ***and propagation of wildlife.***
E. Coli (No./100 ml) Annual Geometric Mean ***Single Value***	 ***--*** ***--***	 ***≤126*** ***≤410***	***Recreation involving contact with the water[b] and recreation not involving contact with the water.***
Color	--	c	Municipal or domestic supply.

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 annual geometric mean must not exceed 200 per 100 milliliters nor may the number of fecal coliform in a single sample exceed 400 per 100 milliliters.

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

d. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 62. NAC 445A.223 is hereby amended to read as follows:

445A.223

STANDARDS OF WATER QUALITY

Owyhee River

Control Point at New China Dam.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature °C Maximum (a) ΔT°C	ΔT = 0°	May-Oct <21° Nov-Apr <7° ΔT <1°	Aquatic life ~~[, water contact recreation.]~~ ***and recreation involving contact with the water.***
pH Units	ΔpH ±0.5	6.5 - 9.0	Aquatic life, municipal and domestic supply ~~[, water contact recreation.]~~ ***and recreation involving contact with the water.***
Total Phosphorus (as P) in mg/l	--	<0.1	Aquatic life, ~~[water contact recreation,]~~ ***recreation involving contact with the water,*** municipal and domestic supply, ~~[noncontact recreation.]~~ ***and recreation not involving contact with the water.***
Nitrogen Species (as N) in mg/l	Nitrate S.V. <1.0	Nitrate S.V. <10 Nitrite S.V. <0.06 ~~[Ammonia S.V. <0.02 (un-ionized)]~~	Municipal and domestic supply, aquatic life, ~~[water contact recreation, noncontact recreation.]~~ ***recreation involving contact with the water and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***d***	***Aquatic life.***
Dissolved			Aquatic life, ~~[water contact recreation, wildlife~~

Oxygen in mg/l	--	>6.0	~~propagation, stock watering,~~] ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal and domestic supply, ~~[noncontact recreation.]~~ ***and recreation not involving contact with the water.***
Suspended Solids - mg/l	--	S.V. <25	Aquatic life, ***and*** municipal and domestic supply.
Turbidity - NTU	--	S.V. <10	Aquatic life, ***and*** municipal and domestic supply.
Total Dissolved Solids - mg/l	S.V. <250	S.V. <500	Municipal and domestic supply, irrigation ~~[, stock watering.]~~ ***and watering of livestock.***
Chlorides - mg/l	S.V. <8.0	S.V. <250	Municipal and domestic supply, ~~[wildlife propagation, irrigation, stock watering.]~~ ***propagation of wildlife, irrigation and watering of livestock.***
Alkalinity (as CO_3) - mg/l	--	<25% change from natural conditions	Aquatic life ~~[, wildlife propagation.]~~ ***and propagation of wildlife.***
Fecal Coliform - No./100 ml	-- S.V. <125	<200/400[b]	~~[Water contact recreation, noncontact recreation,]~~ ***Recreation involving contact with the water, recreation not involving contact with the water,*** municipal and domestic supply, irrigation ~~[, wildlife propagation.]~~ ***and propagation of wildlife.***
E. Coli			***Recreation involving contact with the water[b] and***

(No./100 ml) *Annual Geometric* *Mean* *Single Value*	 *--* *--*	 *≤126* *≤410*	***recreation not involving contact with the water.***
Color	--	c	Municipal or domestic supply.

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 annual geometric mean must not exceed 200 per 100 milliliters nor may the number of fecal coliform in a single sample exceed 400 per 100 milliliters.

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

d. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.

Sec. 63. NAC 445A.225 is hereby amended to read as follows:

445A.225

STANDARDS OF WATER QUALITY

South Fork Owyhee River

Control Point at Petan Access Road.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES

Temperature °C Maximum (a) ΔT°C	ΔT = 0°	May-Oct <21° Nov-Apr <13° ΔT <1°	Aquatic life ~~[, water contact recreation.]~~ ***and recreation involving contact with the water.***
pH Units	ΔpH ±0.5	6.5 - 9.0	Aquatic life, municipal and domestic supply ~~[, water contact recreation.]~~ ***and recreation involving contact with the water.***
Total Phosphorus (as P) in mg/l	--	<0.1	Aquatic life, ~~[water contact recreation,]~~ ***recreation involving contact with the water,*** municipal and domestic supply, ~~[noncontact recreation.]~~ ***and recreation not involving contact with the water.***
Nitrogen Species (as N) in mg/l	Nitrate S.V. <1.0	Nitrate S.V. <10 Nitrite S.V. <0.06 ~~[Ammonia S.V. <0.02 (un-ionized)]~~	Municipal and domestic supply, aquatic life, ~~[water contact recreation, noncontact recreation.]~~ ***recreation involving contact with the water and recreation not involving contact with the water.***
Total Ammonia (as N) - mg/l	***--***	***d***	***Aquatic life.***
Dissolved Oxygen in mg/l	--	>6.0	Aquatic life, ~~[water contact recreation, wildlife propagation, stock watering,]~~ ***recreation involving contact with the water, propagation of wildlife, watering of livestock,*** municipal and domestic supply, ~~[noncontact recreation.]~~ ***and recreation not involving contact with the water.***
Suspended			Aquatic life, ***and*** municipal and domestic supply.

Solids - mg/l	--	S.V. <25	
Turbidity - NTU	--	S.V. <10	Aquatic life, ***and*** municipal and domestic supply.
Total Dissolved Solids - mg/l	S.V. <280	S.V. <500	Municipal and domestic supply, irrigation ~~[, stock watering.]~~ ***and watering of livestock.***
Chlorides - mg/l	S.V. <15.0	S.V. <250	Municipal and domestic supply, ~~[wildlife propagation, irrigation, stock watering.]~~ ***propagation of wildlife, irrigation and watering of livestock.***
Alkalinity (as CO_3) - mg/l	--	<25% change from natural conditions	Aquatic life ~~[, wildlife propagation.]~~ ***and propagation of wildlife.***
Fecal Coliform - No./100 ml	--	<200/400[b]	~~[Water contact recreation, noncontact recreation,]~~ ***Recreation involving contact with the water, recreation not involving contact with the water,*** municipal and domestic supply, irrigation ~~[, wildlife propagation.]~~ ***and propagation of wildlife.***
E. Coli (No./100 ml) Annual Geometric Mean Single Value	***-- --***	***≤126 ≤410***	***Recreation involving contact with the water[b] and recreation not involving contact with the water.***
Color	--	c	Municipal or domestic supply.

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 annual geometric mean must not exceed 200 per 100 milliliters nor may the number of fecal coliform in a single sample exceed 400 per 100 milliliters.

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

d. The ambient water quality criteria for ammonia are specified in section 3 of this regulation.