

LCB File No. R128-01

**NOTICE OF INTENT TO ADOPT PROPOSED REGULATION OF THE
STATE ENVIRONMENTAL COMMISSION**

**NEVADA STATE ENVIRONMENTAL COMMISSION
NOTICE OF PUBLIC HEARING**

The Nevada State Environmental Commission will hold a public hearing beginning at **9:30 a.m. on Tuesday, December 11, 2001, at the Nevada Division of Wildlife's Conference Room B, 1100 Valley Road, Reno, Nevada.**

The purpose of the hearing is to receive comments from all interested persons regarding the adoption, amendment, or repeal of regulations. If no person directly affected by the proposed action appears to request time to make an oral presentation, the State Environmental Commission may proceed immediately to act upon any written submission. **Petition 2002-01 (LCB File No. R-096-01)**, the Water Pollution Control regulation in NAC 445A for diffuse source and rolling stock permits was previously noticed on August 20, August 29 and September 6, 2001 for hearing on September 18, 2001. The adoption on this regulation was deferred on September 18, 2001 until the next regularly scheduled regulatory hearing.

1. Petition 2002-02 (LCB R-102-01) is a permanent amendment to NAC 445B.400 to 445B.774, the vehicle emission control program. The amendment adopts by reference a State of California regulation that became effective on July 25, 2001. The amendment requires model year 2005 and 2006 new heavy-duty diesel engines (HDDEs) with a Gross Vehicle Weight Rating (GVWR) of 14,001 pounds and greater to meet supplemental emission tests. Definitions added include the applicable Executive Order, heavy-duty diesel engine, model year, new motor vehicle, new motor vehicle engine, ultimate purchaser, ultra-small volume manufacturer, and urban bus.

The regulation will not have a significant economic impact, either immediate or long-term, on the regulated community, the heavy-duty diesel engine manufacturers. The State of California, by a consent decree, is requiring manufacturers to comply with supplemental test procedures for model year 2003 and 2004 engines. The regulation does not have an immediate or long-term impact upon the public. There will be no additional cost to the agency for enforcement of the regulation. There are no other Nevada regulations that the amendment overlaps or duplicates. This regulation adopts a California regulation, Title 13, Section 1956.8 and Section 2065 of the California Code of Regulations, as effective on July 25, 2001. The regulation is more stringent than federal requirements, since the federal rule as promulgated by the U.S. EPA in 65 FR 59896 on October 6, 2000, begins regulation of heavy-duty diesel engines beginning on model year 2007. There are no fees associated with this regulation.

2. Petition 2002-03 (LCB R-128-01) is a permanent amendment to NAC 445A.119 to 445A.225, the pollution control standards for water quality. The petition amends the standards for various reaches of the East and West forks of the Walker River. Amendments are proposed for NAC 445A.159 through 445A.169, inclusive including Sweetwater Creek and Desert Creek of the Walker River. Revised area of water quality standards includes pH, the nitrite in the lower reaches, the time period for dissolved oxygen beneficial use standard, the Topaz Lake dissolved oxygen standard, the replacement of the narrative color

standard with a numeric standard, establishing sulfate requirements to maintain existing higher quality (RMHQ), replacement of existing fecal coliform standard with E. Coli standard and to establish a total suspended RMHQ for Sweetwater Creek. It is proposed to revise the time period that adult Lahontan cutthroat trout may be present in the reach from Walker Lake to Weber Reservoir.

The proposed regulation will not have an adverse economic impact on businesses, since the amendments do not directly regulate business. The proposed amendments are not expected to have any economic short or long-term adverse impact upon the public. The implementation of the proposed regulation is not expected to result in any additional cost by the Division of Environmental Protection for enforcement. There are no other state or government agency regulations which the proposed amendments duplicate. The federal government has delegated the responsibility of establishing water quality standards to the state, therefore, there is no federal regulation for water quality standards for the Walker River Basin. This regulation is no more restrictive or stringent than federal requirements. This regulation does not provide for any new or increased fees.

3. Petition 2002-04 (LCB R-129-01) is a permanent amendment to NAC 445A.119 through 445A.225, the pollution control standards for water quality. The permanent regulation establishes water quality standards for Walker Lake. The regulation establishes beneficial uses and water quality standards to protect those uses. Proposed standards for Walker Lake include pH, dissolved oxygen, total suspended solids, temperature, dissolved oxygen, nitrite, total inorganic nitrogen, total phosphorus and E. Coli.

The proposed regulations do not directly regulate businesses, therefore, they are not expected to have any direct economic effect on the regulated community. In the long-term, there is a possibility of secondary adverse economic effects on the agricultural community if the proposed standards are used by other government agencies to acquire water rights for the benefit of Walker Lake. Conversely, the long-term protection of Walker Lake will have a beneficial economic effect on tourism related businesses. The regulation is not expected to have any economic effect on the public both immediately and long-term. The regulation is not expected to result in additional cost by the agency for enforcement. There are no other state or government agency regulations which the proposed amendments duplicate. The federal government has delegated the responsibility of establishing water quality standards to the state, therefore, there is no federal regulation for water quality standards for the Walker River Basin. This regulation is no more restrictive or stringent than federal requirements. This regulation does not provide for any new or increased fees.

Pursuant to NRS 233B.0603 the provisions of NRS 233B.064 (2) are hereby provided:

"Upon adoption of any regulation, the agency, if requested to do so by an interested person, either prior to adoption or within 30 days thereafter, shall issue a concise statement of the principal reasons for and against its adoption, and incorporation therein its reason for overruling the consideration urged against its adoption."

Persons wishing to comment on the proposed regulation changes may appear at the scheduled public hearing or may address their comments, data, views or arguments, in written form, to the Environmental Commission, 333 West Nye Lane, Carson City, Nevada 89706-0851. Written submissions must be received at least five days before the scheduled public hearing.

A copy of the regulations to be adopted or amended will be on file at the State Library and Archives, 100 Stewart Street and the Division of Environmental Protection, 333 West Nye Lane - Room 104, in Carson City and at the Division of Environmental Protection, 555 E. Washington - Suite

4300, in Las Vegas for inspection by members of the public during business hours. In addition, copies of the regulations and public notices have been deposited at major library branches in each county in Nevada. The notice and the text of the proposed regulations are also available in the State of Nevada Register of Administrative Regulations which is prepared and published monthly by the Legislative Counsel Bureau pursuant to NRS 233B.0653. The proposed regulations are on the Internet at <http://www.leg.state.nv.us>. In addition, the State Environmental Commission maintains an Internet site. It is at <http://www.ndep/state.nv.us/admin/envir01.htm>. This site contains the public notice, agenda, codified regulations, and petitions for pending and past commission actions.

Members of the public who are disabled and require special accommodations or assistance at the meeting are requested to notify, in writing, the Nevada State Environmental Commission, in care of David Cowperthwaite, 333 West Nye Lane, Room 138, Carson City, Nevada, 89706-0851, facsimile (775) 687-5856, or by calling (775) 687-4670 Extension 3118, no later than 5:00 p.m. on December 5, 2001.

This public notice has been posted at the following locations: Clark County Public Library and Grant Sawyer Office Building in Las Vegas, Washoe County Library and Division of Wildlife in Reno, Division of Environmental Protection and Department of Museums, Library and Arts in Carson City, the Lyon County Courthouse in Yerington, and Mineral County Courthouse in Hawthorne.

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PROPOSED REGULATION OF THE STATE ENVIRONMENTAL COMMISSION

445A.159 Beneficial uses for Walker River. The standards of water quality for the Walker River from Walker Lake to the state line are prescribed in NAC 445A.160 to 445A.169 inclusive. The beneficial uses for this area are:

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

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

(Added to NAC by Environmental Comm'n, eff. 9-13-85)--(Substituted in revision for NAC 445.13424)

445A.160 West Walker River at the state line.

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 {±C} Maximum ΔT_a Single Value	July-Oct: □22□C ΔT = 0 □Ca	Nov.-Apr.: □13□C May-Jun.: □17□C Jul.-Oct.: □23□C ΔT □2□Ca	<i>Propagation of [A] aquatic life[b], and recreation involving contact with the water [contact-recreation].</i>
pH [Units] Single Value	--	[S.V.: 7.0–8.3] <i>Within Range 6.5 - 9.0 SU</i> ΔpH: ±0.5 <i>SU</i> Max.	<i>Propagation of aquatic life, recreation involving contact with the [W] water [contact-recreationb], propagation of wildlife [propagationb], [aquatic-life] irrigation, [stock] watering of livestock, municipal or domestic supply, or both, and industrial supply.</i>
Total Phosphates (as P) (—mg/l) Annual Average		[A-Avg.:] □0.1 mg/l	<i>Propagation of [A] aquatic life[b], recreation involving contact with the water [contact-recreationb], municipal or domestic supply, or both, and [noncontact] recreation not involving contact with water.</i>
Nitrogen Species as {[N]—mg/l} Annual Average Single Value Single Value	Total Nitrogen [A-Avg.:] [S.V.:] □0.6 mg/l □0.9 mg/l	Nitrate [S.V.:] □10 mg/l Nitrite [S.V.:] □.06 mg/l Ammonia S.V: □.02 mg/l (un-ionized)	Municipal or domestic supply, or both [b] , <i>propagation of aquatic life[b], recreation involving contact with the water [contact-recreation], [stock] watering of livestock, propagation of wildlife [propagationb], and [noncontact] recreation not involving contact with water.</i>
Dissolved Oxygen {—mg/l} Single Value	--	[S.V.:] Nov. [Apr.] May: □6.0 mg/l [May] June-Oct.: □5.0 mg/l	<i>Propagation of [A] aquatic life[b], recreation involving contact with the water [contact-recreation], propagation of wildlife [propagationb], [stock] watering of livestock, municipal or domestic supply, or both, and [noncontact] recreation not involving contact with water.</i>
Suspended Solids {—mg/l} Annual Average Single Value	[A-Avg.:] □60 mg/l	[S.V.:] □80 mg/l	<i>Propagation of [A] aquatic life[b].</i>
Turbidity {—NTU} Single Value	--		<i>Propagation of [A] aquatic life[b], and municipal or domestic supply, or both.</i>

		[d] b	
Color [PCU] Single Value	26 PCU	[e] 75 PCU	<i>Municipal or domestic supply, or both, propagation of [A]aquatic life [b]. and municipal or domestic supply</i>
Total Dissolved Solids [mg/l] Annual Average Single Value	[A-Avg:] [S.V:] □ 165 mg/l □ 220 mg/l	[A-Avg:] □ 500 mg/l	Municipal or domestic supply [b] , or both, irrigation, and [stock] watering of livestock.
Chloride [mg/l] Annual Average Single Value	[A-Avg:] [S.V:] □ 15 mg/l □ 20 mg/l	[S.V:] □ 250 mg/l	Municipal or domestic supply [b] , or both, propagation of wildlife [propagationb] , irrigation, and [stock] watering of livestock.
Sulfate [mg/l] Single Value	25 mg/l	[S.V:] □ 250 mg/l	Municipal or domestic supply [b] , or both.
Sodium [SAR] Adsorption Ratio Annual Average	--	[A-Avg:] □ 8	Irrigation [b] , and municipal or domestic supply, or both.
Alkalinity (as CaCO ₃) [mg/l]	--	less than 25% change from natural conditions	<i>Propagation of [A]aquatic life [b], and propagation of wildlife [propagationb].</i>
[Fecal Coliform No./100 ml] <i>Escherichia coli</i> Annual Geometric Mean Single Value	[A.G.M.: □100]	[□200/400e] 126 MF/100 ml 235 MF/100 ml	<i>Recreation involving contact with the [W]water [contact recreation], [nonecontact] recreation not involving contact with water, municipal or domestic supply, or both, irrigation, [wildlife propagation], and [stock] watering of livestock.</i>

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

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

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

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

~~[e. Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.]~~

[Environmental Comm'n, Water Pollution Control Reg. part § 4.2.5, Table 10, eff. 5-2-78; A 1-25-79; 8-28-79; 1-25-80; 12-3-80]--(NAC A 9-13-85)--(Substituted in revision for NAC 445.13425)

445A.161 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 [°C Maximum ΔT_a] <i>Single Value</i>	ΔT = 0 °C _a	Nov.-Apr.: ≤13 °C May-Jun.: ≤17 °C Jul.-Oct.: ≤23 °C ΔT ≤2 °C _a	<i>Propagation of [A]aquatic life[b], and recreation involving contact with the water [contact-recreation].</i>
pH [Units] <i>Single Value</i>	--	[S.V.: 7.0–8.3] <i>Within Range 6.5 - 9.0 SU</i> ΔpH: ±0.5 SU Max.	<i>Propagation of aquatic life, recreation involving contact with the [W]water [contact-recreationb], propagation of wildlife [propagationb], [aquatic-life.] irrigation, [stock] watering of livestock, municipal or domestic supply, or both, and industrial supply.</i>
Total Phosphates (as P) [mg/l] <i>Annual Average Single Value</i>		[A-Avg.:] ≤0.05 mg/l ≤0.10 mg/l	<i>Propagation of [A]aquatic life[b], recreation involving contact with the water [contact-recreationb], municipal or domestic supply, or both, and [nonecontact] recreation not involving contact with water.</i>
Nitrogen Species as [(N)–mg/l] <i>Annual Average Single Value</i> <i>Single Value</i>	Total Nitrogen [A-Avg.:] [S.V.:] ≤0.6 mg/l ≤1.0 mg/l	Nitrate [S.V.:] ≤10 mg/l Nitrite [S.V.:] ≤0.06 mg/l Ammonia S.V.: ≤0.02 mg/l (un-ionized)	<i>Municipal or domestic supply, or both[b], propagation of aquatic life[b], recreation involving contact with the water [contact-recreation], [stock] watering of livestock, propagation of wildlife [propagationb], and [nonecontact] recreation not involving contact with water.</i>
Dissolved Oxygen [mg/l] <i>Single Value</i>	--	[S.V.:] Nov. [Apr.] May: ≤6.0 mg/l [May]June-Oct.^b: ≤5.0 mg/l	<i>Propagation of [A]aquatic life[b], recreation involving contact with the water [contact-recreation], propagation of wildlife [propagationb], [stock] watering of livestock, municipal or domestic supply, or both, and [nonecontact] recreation not involving contact with water.</i>
Suspended Solids [mg/l] <i>Annual Average Single Value</i>	[A-Avg.:] ≤6.0 mg/l [S.V.:] ≤9.0 mg/l	[S.V.:] ≤25 mg/l	<i>Propagation of [A]aquatic life[b].</i>
Turbidity [NTU] <i>Annual Average Single Value</i>	[A-Avg.:] ≤3.0 NTU [S.V.:]		<i>Propagation of [A]aquatic life[b], and municipal or domestic supply, or both.</i>

	□5.0 <i>NTU</i>	{d} <i>c</i>	
Color {PCU} <i>Single Value</i>	<i>21 PCU</i>	{e} <i>75 PCU</i>	<i>Municipal or domestic supply, or both, propagation of {A}aquatic life{b}. {and municipal or domestic supply}</i>
Total Dissolved Solids {mg/l} <i>Annual Average Single Value</i>	{A-Avg::} {S.V::} □105 <i>mg/l</i> □120 <i>mg/l</i>	{A-Avg::} □500 <i>mg/l</i>	Municipal or domestic supply {b} , <i>or both</i> , irrigation, and {stock} watering <i>of livestock</i> .
Chloride {s-mg/l} <i>Annual Average Single Value</i>	{A-Avg::} {S.V::} □7 <i>mg/l</i> □10 <i>mg/l</i>	{S.V::} □250 <i>mg/l</i>	Municipal or domestic supply {b} , <i>or both, propagation of</i> wildlife {propagationb} , irrigation, and {stock} watering <i>of livestock</i> .
Sulfate {mg/l} <i>Single Value</i>	<i>25 mg/l</i>	{S.V::} □250 <i>mg/l</i>	Municipal or domestic supply {b} , <i>or both</i> .
Sodium {SAR} <i>Adsorption Ratio Annual Average</i>	--	{A-Avg::} □8	Irrigation {b} , and municipal or domestic supply, <i>or both</i> .
Alkalinity (as CaCO ₃) {mg/l}	--	less than 25% change from natural conditions	<i>Propagation of {A}aquatic life{b}</i> , and <i>propagation of</i> wildlife {propagationb} .
{Fecal Coliform No./100 ml} <i>Escherichia coli Annual Geometric Mean Single Value</i>	{A.G.M::} □25 {S.V::} □100	{□200/400e} <i>126 MF/100 ml</i> <i>235 MF/100 ml</i>	<i>Recreation involving contact with the {W}water {contact recreation}, {nonecontact} recreation not involving contact with water</i> , municipal or domestic supply, <i>or both</i> , irrigation, {wildlife propagation} , and {stock} watering <i>of livestock</i> .

- a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.
- b. ~~{The most restrictive beneficial use.}~~ *The dissolved oxygen standard from June to October applies only to the epilimnion.*
- c. ~~{Increase in color must not be more than 10 PCU above natural conditions.}~~
- d. ~~{Increase in turbidity must not be more than 10 NTU above natural conditions.}~~
- e. ~~{Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.}~~

[Environmental Comm'n, Water Pollution Control Reg. part § 4.2.5, Table 11, eff. 5-2-78; A 1-25-79; 8-28-79; 1-25-80; 12-3-80]--(NAC A 9-13-85)--(Substituted in revision for NAC 445.13426)

445A.162 West Walker River near Wellington.

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 {}C Maximum ΔT_a Single Value	ΔT = 0 °C _a	Nov.-Apr.: ≤13 °C May-Jun.: ≤17 °C Jul.-Oct.: ≤23 °C ΔT ≤2 °C _a	Propagation of [A] aquatic life [b] , and recreation involving contact with the water [contact-recreation] .
pH [Units] Single Value	--	[S.V.: 7.0—8.3] Within Range 6.5 - 9.0 SU ΔpH: ±0.5 SU Max.	Propagation of aquatic life, recreation involving contact with the [W] water [contact-recreationb] , propagation of wildlife [propagationb] , [aquatic life.] irrigation, [stock] watering of livestock, municipal or domestic supply, or both, and industrial supply.
Total Phosphates(as P) {(-mg/l)} Annual Average Single Value	[A-Avg.:] [S.V.:] — ≤0.07 mg/l ≤0.10 mg/l	[A-Avg.:] ≤0.1 mg/l	Propagation of [A] aquatic life [b] , recreation involving contact with the water [contact-recreationb] , municipal or domestic supply, or both, and [nonecontact] recreation not involving contact with water.
Nitrogen Species as {(N)}(-mg/l) Annual Average Single Value Single Value	Total Nitrogen [A-Avg.:] [S.V.:] ≤0.6 mg/l ≤1.0 mg/l	Nitrate [S.V.:] ≤10 mg/l Nitrite [S.V.:] ≤0.06 mg/l Ammonia S.V: ≤0.02 mg/l (un-ionized)	Municipal or domestic supply, or both [b] , propagation of aquatic life [b] , recreation involving contact with the water [contact-recreation] , [stock] watering of livestock, propagation of wildlife [propagationb] , and [nonecontact] recreation not involving contact with water.
Dissolved Oxygen {(-mg/l)} Single Value	--	[S.V.:] Nov.-May: ≤6.0 mg/l June-Oct.: ≤5.0 mg/l	Propagation of [A] aquatic life [b] , recreation involving contact with the water [contact-recreation] , propagation of wildlife [propagationb] , [stock] watering of livestock, municipal or domestic supply, or both, and [nonecontact] recreation not involving contact with water.
Suspended Solids {(-mg/l)} Single Value		[S.V.:] ≤80 mg/l	Propagation of [A] aquatic life [b] .
Turbidity {(-NTU)} Single Value	--		Propagation of [A] aquatic life [b] , and municipal or domestic supply, or both.

		{d} c	
Color {-PCU} <i>Single Value</i>	--	{e} 75 PCU	<i>Municipal or domestic supply, or both, propagation of {A}aquatic life{b}. {and municipal or domestic supply}</i>
Total Dissolved Solids {-mg/l} <i>Annual Average Single Value</i>	{A-Avg.} {S.V.} □ 175 mg/l □ 260 mg/l	{A-Avg.} □ 500 mg/l	Municipal or domestic supply {b} , <i>or both</i> , irrigation, and {stock} watering <i>of livestock</i> .
Chloride {s-mg/l} <i>Annual Average Single Value</i>	{A-Avg.} {S.V.} □ 16 mg/l □ 30 mg/l	{S.V.} □ 250 mg/l	Municipal or domestic supply {b} , <i>or both, propagation of</i> wildlife {propagationb} , irrigation, and {stock} watering <i>of livestock</i> .
Sulfate {-mg/l} <i>Single Value</i>		{S.V.} □ 250 mg/l	Municipal or domestic supply {b} , <i>or both</i> .
Sodium {-SAR} <i>Adsorption Ratio Annual Average</i>	--	{A-Avg.} □ 8	Irrigation {b} , and municipal or domestic supply, <i>or both</i> .
Alkalinity (as CaCO ₃) {-mg/l}	--	less than 25% change from natural conditions	<i>Propagation of {A}aquatic life{b}</i> , and <i>propagation of</i> wildlife {propagationb} .
{Fecal Coliform No./100 ml} <i>Escherichia coli Annual Geometric Mean Single Value</i>	{A.G.M.} □ 50 {S.V.} □ 150	{□ 200/400e} <i>126 MF/100 ml</i> <i>235 MF/100 ml</i>	<i>Recreation involving contact with the {W}water {contact recreation}, {nonecontact} recreation not involving contact with water</i> , municipal or domestic supply, <i>or both</i> , irrigation, {wildlife propagation} , and {stock} watering <i>of livestock</i> .

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

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

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

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

e. ~~{Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.}~~

[Environmental Comm'n, Water Pollution Control Reg. part § 4.2.5, Table 12, eff. 5-2-78; A 1-25-79; 8-28-79; 1-25-80; 12-3-80]--(NAC A 9-13-85)--(Substituted in revision for NAC 445.13427)

445A.163 West Walker River above confluence with East Walker River at Nordyke Rd.

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 445.162(near Wellington).

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES <i>AS DESIGNATED IN NAC 445A.159 (Most Stringent Use Listed First)</i>
Temperature {°C} Maximum ΔT_a Single Value	ΔT = 0°C	Nov.-Apr.: ≤13°C May-Jun.: ≤17°C Jul.-Oct.: ≤23°C ΔT ≤2°C	Propagation of aquatic life, and recreation involving contact with the water {contact recreation} .
pH {Units} Single Value	--	{S.V.: 7.0–8.3} Within Range 6.5 - 9.0 SU ΔpH: ±0.5 SU Max.	Propagation of aquatic life, recreation involving contact with the water {contact recreation} , propagation of wildlife {propagation} , {aquatic life} irrigation, {stock} watering of livestock, municipal or domestic supply, or both, and industrial supply.
Total Phosphates(as P) {mg/l} Annual Average Single Value	{A-Avg.} {S.V.} ≤0.15 mg/l	{A-Avg.} ≤0.10 mg/l	Propagation of aquatic life, recreation involving contact with the water {contact recreation} , municipal or domestic supply, or both, and {noncontact} recreation not involving contact with water.
Nitrogen Species as {(N) mg/l} Annual Average Single Value Single Value	Total Nitrogen {A-Avg.} {S.V.} ≤1.0 mg/l ≤1.2 mg/l	Nitrate {S.V.} ≤10 mg/l Nitrite {S.V.} ≤0.06 mg/l Ammonia S.V: ≤0.02 mg/l (un-ionized)	Municipal or domestic supply, or both, propagation of aquatic life, recreation involving contact with the water {contact recreation} , {stock} watering of livestock, propagation of wildlife {propagation} , and {noncontact} recreation not involving contact with water.
Dissolved Oxygen {mg/l} Single Value	--	{S.V.} Nov.-May: ≤6.0 mg/l June-Oct.: ≤5.0 mg/l	Propagation of aquatic life, recreation involving contact with the water {contact recreation} , propagation of wildlife {propagation} , {stock} watering of livestock, municipal or domestic supply, or both, and {noncontact} recreation not involving contact with water.
Suspended Solids {mg/l} Single Value		{S.V.} ≤80 mg/l	Propagation of aquatic life.
Turbidity {NTU} Single Value	--		Propagation of aquatic life, and municipal or domestic supply, or both.

		[d] b	
Color [PCU] Single Value	46 PCU	[e] 75 PCU	<i>Municipal or domestic supply, or both, propagation of [A]aquatic life[b], [and municipal or domestic supply]</i>
Total Dissolved Solids [mg/l] Annual Average Single Value	[A-Avg:] [S.V:] □ 330 mg/l □ 425 mg/l	[A-Avg:] □ 500 mg/l	Municipal or domestic supply [b] , or both, irrigation, and [stock] watering of livestock.
Chloride [s mg/l] Annual Average Single Value	[A-Avg:] [S.V:] □ 22 mg/l □ 28 mg/l	[S.V:] □ 250 mg/l	Municipal or domestic supply [b] , or both, propagation of wildlife [propagationb] , irrigation, and [stock] watering of livestock.
Sulfate [mg/l] Single Value	74 mg/l	[S.V:] □ 250 mg/l	Municipal or domestic supply [b] , or both.
Sodium [SAR] Adsorption Ratio Annual Average	--	[A-Avg:] □ 8	Irrigation [b] , and municipal or domestic supply, or both.
Alkalinity (as CaCO ₃) [mg/l]	--	less than 25% change from natural conditions	<i>Propagation of [A]aquatic life[b], and propagation of wildlife [propagationb].</i>
[Fecal Coliform No./100 ml] <i>Escherichia coli</i> Annual Geometric Mean Single Value	[A.G.M.: □125 S.V.: □350]	[□200/400e] 126 MF/100 ml 235 MF/100 ml	<i>Recreation involving contact with the [W]water [contact recreation], [nonecontact] recreation not involving contact with water, municipal or domestic supply, or both, irrigation, [wildlife propagation], and [stock] watering of livestock.</i>

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

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

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

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

~~[e. Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.]~~

[Environmental Comm'n, Water Pollution Control Reg. part § 4.2.5, Table 13, eff. 5-2-78; A 1-25-79; 8-28-79; 1-25-80; 12-3-80]--(NAC A 9-13-85)--(Substituted in revision for NAC 445.13428)

445A.164 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 [°C] Maximum ΔT_a Single Value	ΔT = 0 °C _a	Nov.-Apr.: ≤13 °C May-Jun.: ≤17 °C Jul.-Oct.: ≤23 °C ΔT ≤2 °C _a	Propagation of [A] aquatic life [b] , and recreation involving contact with the water [contact-recreation] .
pH [Units] Single Value	--	[S.V.: 7.0–8.3] Within Range 6.5 - 9.0 SU ΔpH: ±0.5 SU Max.	Propagation of aquatic life, recreation involving contact with the [W] water [contact-recreationb] , propagation of wildlife [propagationb] , [aquatic life.] irrigation, [stock] watering of livestock, municipal or domestic supply, or both, and industrial supply.
Total Phosphates(as P) [←mg/l] Annual Average		[A-Avg.:] ≤0.10 mg/l	Propagation of [A] aquatic life [b] , recreation involving contact with the water [contact-recreationb] , municipal or domestic supply, or both, and [nonecontact] recreation not involving contact with water.
Nitrogen Species as [N] ←mg/l Annual Average Single Value Single Value	Total Nitrate [s] [A-Avg.:] [S.V.:] ≤0.25 mg/l ≤0.45 mg/l	Nitrate [S.V.:] ≤10 mg/l Nitrite [S.V.:] ≤0.06 mg/l Ammonia S.V.: ≤0.02 mg/l (un-ionized)	Municipal or domestic supply, or both [b] , propagation of aquatic life [b] , recreation involving contact with the water [contact-recreation] , [stock] watering of livestock, propagation of wildlife [propagationb] , and [nonecontact] recreation not involving contact with water.
Dissolved Oxygen [←mg/l] Single Value	--	[S.V.:] Nov.-May: ≤6.0 mg/l June-Oct.: ≤5.0 mg/l	Propagation of [A] aquatic life [b] , recreation involving contact with the water [contact-recreation] , propagation of wildlife [propagationb] , [stock] watering of livestock, municipal or domestic supply, or both, and [nonecontact] recreation not involving contact with water.
Suspended Solids [←mg/l] Single Value	45 mg/l	[S.V.:] ≤80 mg/l	Propagation of [A] aquatic life [b] .
Turbidity [←NTU]			Propagation of [A] aquatic life [b] , and

Single Value	--	{d} c	municipal or domestic supply, <i>or both</i> .
Color {-PCU} Single Value	--	{e} 75 PCU	<i>Municipal or domestic supply, or both, propagation of {A}aquatic life{b}. {and municipal or domestic supply}</i>
Total Dissolved Solids {-mg/l} Annual Average Single Value	{A-Avg::} {S-V::} □ 220 mg/l □ 300 mg/l	{A-Avg::} □ 500 mg/l	Municipal or domestic supply {b} , <i>or both</i> , irrigation, and {stock} watering <i>of livestock</i> .
Chloride {-mg/l} Annual Average Single Value	{A-Avg::} {S-V::} □ 5 mg/l □ 7 mg/l	{S-V::} □ 250 mg/l	Municipal or domestic supply {b} , <i>or both, propagation of</i> wildlife {propagationb} , irrigation, and {stock} watering <i>of livestock</i> .
Sulfate {-mg/l} Single Value		{S-V::} □ 250 mg/l	Municipal or domestic supply {b} , <i>or both</i> .
Sodium {-SAR} Adsorption Ratio Annual Average	--	{A-Avg::} □ 8	Irrigation {b} , and municipal or domestic supply, <i>or both</i> .
Alkalinity (as CaCO ₃) {-mg/l}	--	less than 25% change from natural conditions	<i>Propagation of {A}aquatic life{b}</i> , and <i>propagation of</i> wildlife {propagationb} .
{Fecal-Coliform No./100-ml} <i>Escherichia coli</i> Annual Geometric Mean Single Value		{□200/400e} <i>126 MF/100 ml</i> <i>235 MF/100 ml</i>	<i>Recreation involving contact with the {W}water {contact recreation}, {nonecontact} recreation not involving contact with water</i> , municipal or domestic supply, <i>or both</i> , irrigation, {wildlife propagation} , and {stock} watering <i>of livestock</i> .

- a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.
- b. ~~{The most restrictive beneficial use.~~
- c. ~~{Increase in color must not be more than 10 PCU above natural conditions.~~
- d. ~~{Increase in turbidity must not be more than 10 NTU above natural conditions.~~
- e. ~~{Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.}~~

[Environmental Comm'n, Water Pollution Control Reg. part § 4.2.5, Table 14, eff. 5-2-78; A 1-25-79; 8-28-79; 1-25-80; 12-3-80]--(NAC A 9-13-85)--(Substituted in revision for NAC 445.1343)

445A.165 East Walker River at state line.

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 [°C] Maximum ΔTa] Single Value	ΔT = 0 °C	Nov.-Apr.: ≤13 °C May-Jun.: ≤17 °C Jul.-Oct.: ≤23 °C ΔT ≤2 °C	Propagation of aquatic life, and recreation involving contact with the water.
pH [Units] Single Value	--	[S.V.: 7.0—8.3] 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) [mg/l] Annual Average		[A-Avg:] ≤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 water.
Nitrogen Species as [N] [mg/l] Annual Average Single Value Single Value	Total Nitrogen [A-Avg:] [S.V:] ≤0.8 mg/l ≤1.4 mg/l	Nitrate [S.V:] ≤10 mg/l Nitrite [S.V:] ≤0.06 mg/l Ammonia S.V: ≤0.02 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 water.
Dissolved Oxygen [mg/l] Single Value	--	[S.V:] 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 water.
Suspended Solids [mg/l] Single Value	[S.V:] ≤30 mg/l	[S.V:] ≤80 mg/l	Propagation of aquatic life.
Turbidity [NTU] Single Value	--		Propagation of aquatic life, and municipal or domestic supply, or both.

		[d] b	
Color [PCU] Single Value	--	[e] 75 PCU	<i>Municipal or domestic supply, or both, propagation of [A]aquatic life[b]. [and municipal or domestic supply]</i>
Total Dissolved Solids [mg/l] Annual Average Single Value	[A-Avg:] [S.V:] □ 175 mg/l □ 210 mg/l	[A-Avg:] □ 500 mg/l	Municipal or domestic supply [b] , or both, irrigation, and [stock] watering of livestock.
Chloride [s mg/l] Annual Average Single Value	[A-Avg:] [S.V:] □ 5 mg/l □ 7 mg/l	[S.V:] □ 250 mg/l	Municipal or domestic supply [b] , or both, propagation of wildlife [propagationb] , irrigation, and [stock] watering of livestock.
Sulfate [mg/l] Single Value	26 mg/l	[S.V:] □ 250 mg/l	Municipal or domestic supply [b] , or both.
Sodium [SAR] Adsorption Ratio Annual Average	□ 2	[A-Avg:] □ 8	Irrigation [b] , and municipal or domestic supply, or both.
Alkalinity (as CaCO ₃) [mg/l]	--	less than 25% change from natural conditions	<i>Propagation of [A]aquatic life[b], and propagation of wildlife [propagationb].</i>
[Fecal Coliform No./100 ml] <i>Escherichia coli</i> Annual Geometric Mean Single Value	[A.G.M.: □20 S.V.: □50]	[□200/400e] 126 MF/100 ml 235 MF/100 ml	<i>Recreation involving contact with the [W]water [contact recreation], [nonecontact] recreation not involving contact with water, municipal or domestic supply, or both, irrigation, [wildlife propagation], and [stock] watering of livestock.</i>

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

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

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

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

~~[e. Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.]~~

[Environmental Comm'n, Water Pollution Control Reg. part § 4.2.5, Table 16, eff. 5-2-78; A 1-25-79; 8-28-79; 1-25-80; 12-3-80]--(NAC A 9-13-85)--(Substituted in revision for NAC 445.13431)

445A.1651 East Walker River at Bridge B-1475.

Control Point at the East Walker River at Bridge B-1475. The limits of this table apply from the East Walker River at Bridge B-1475 to the East Walker River at 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)
<i>Temperature Single Value</i>	$\Delta T = 0 \text{ } ^\circ\text{C}$	<i>Nov.-Apr.: 13 °C May-Jun.: 17 °C Jul.-Oct.: 23 °C $\Delta T \leq 2 \text{ } ^\circ\text{C}$</i>	<i>Propagation of aquatic life, and recreation involving contact with the water.</i>
<i>pH Single Value</i>	--	<i>Within Range 6.5 - 9.0 SU $\Delta\text{pH}: \pm 0.5 \text{ SU Max.}$</i>	<i>Propagation of aquatic life, recreation involving contact with the water, propagation of wildlife, irrigation, watering of livestock, municipal or domestic supply, or both, and industrial supply.</i>
<i>Total Phosphates (as P) Annual Average</i>	--	<i>0.10 mg/l</i>	<i>Propagation of aquatic life, recreation involving contact with the water, municipal or domestic supply, or both, and recreation not involving contact with water.</i>
<i>Nitrogen Species as N Single Value Single Value Annual Average</i>	<i>Total Nitrogen 1.7 mg/l 0.9 mg/l</i>	<i>Nitrate 10 mg/l Nitrite .06 mg/l Ammonia S.V.: .02 mg/l (un-ionized)</i>	<i>Municipal or domestic supply, or both, propagation of aquatic life, recreation involving contact with the water, watering of livestock, propagation of wildlife, and recreation not involving contact with water.</i>
<i>Dissolved Oxygen Single Value</i>	--	<i>Nov.-May: 6.0 mg/l June-Oct.: 5.0 mg/l</i>	<i>Propagation of aquatic life, recreation involving contact with the water, propagation of wildlife, watering of livestock, municipal or domestic supply, or both, and recreation not involving contact with water.</i>
<i>Suspended Solids Single Value</i>	--	<i>80 mg/l</i>	<i>Propagation of aquatic life.</i>
<i>Turbidity Single Value</i>	--	<i>b</i>	<i>Propagation of aquatic life, and municipal or domestic supply, or both.</i>
<i>Color Single Value</i>	--	<i>75 PCU</i>	<i>Municipal or domestic supply, or both, propagation of aquatic life.</i>
<i>Total Dissolved</i>			<i>Municipal or domestic supply, or both,</i>

<i>Solids</i> <i>Single Value</i> <i>Annual Average</i>	<i>390 mg/l</i> <i>320 mg/l</i>	<i>500 mg/l</i>	<i>irrigation, and watering of livestock.</i>
<i>Chloride</i> <i>Single Value</i> <i>Annual Average</i>	<i>19 mg/l</i> <i>13 mg/l</i>	<i>250 mg/l</i>	<i>Municipal or domestic supply, or both, propagation of wildlife, irrigation, and watering of livestock.</i>
<i>Sulfate</i> <i>Single Value</i>	<i>--</i>	<i>250 mg/l</i>	<i>Municipal or domestic supply or both.</i>
<i>Sodium Adsorption Ratio</i> <i>Annual Average</i>	<i>--</i>	<i>8</i>	<i>Irrigation, and municipal or domestic supply, or both.</i>
<i>Alkalinity (as CaCO3)</i>	<i>--</i>	<i>less than 25% change from natural conditions</i>	<i>Propagation of aquatic life, propagation of wildlife.</i>
<i>Escherichia coli</i> <i>Annual Geometric Mean</i> <i>Single Value</i>	<i>--</i>	<i>126 MF/100 ml</i> <i>235 MF/100 ml</i>	<i>Recreation involving contact with the water, recreation not involving contact with water, municipal or domestic supply, or both, irrigation, and watering of livestock.</i>

- a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.*
- b. Increase in turbidity must not be more than 10 NTU above natural conditions.*

445A.166 East Walker River south of Yerington.

Control Point at the East Walker River south of Yerington above the confluence with the West Walker River (Nordyke Road). The limits of this table apply to the East Walker River south of Yerington above its confluence with the West Walker River to ~~the state line~~ *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 [°C] Maximum ΔT_a <i>Single Value</i>	ΔT = 0°C _a	Nov.-Apr.: □13°C May-Jun.: □17°C Jul.-Oct.: □23°C ΔT □2°C _a	<i>Propagation of aquatic life</i> , and <i>recreation involving contact with the water</i> .
pH [Units] <i>Single Value</i>	--	[S.V.: 7.0–8.3] <i>Within Range</i> <i>6.5 - 9.0 SU</i> ΔpH: ±0.5 SU Max.	<i>Propagation of aquatic life</i> , <i>recreation involving contact with the water</i> , <i>propagation of wildlife</i> , <i>irrigation</i> , <i>watering of livestock</i> , municipal or domestic supply, <i>or both</i> , and industrial supply.
Total Phosphates (as P) [mg/l] <i>Annual Average</i> <i>Single Value</i>	--	[A-Avg.: S.V.:] □0.16 mg/l □0.39 mg/l	<i>Propagation of aquatic life</i> , <i>recreation involving contact with the water</i> , municipal or domestic supply, <i>or both</i> , and recreation not involving contact with water.
Nitrogen Species as [N] mg/l <i>Annual Average</i> <i>Single Value</i> <i>Single Value</i>	Total Nitrogen [A-Avg.: S.V.:] □0.9 mg/l □1.7 mg/l	Nitrate [S.V.:] □10 mg/l Nitrite [S.V.:] □.06 mg/l Ammonia S.V.: □.02 mg/l (un-ionized)	Municipal or domestic supply, <i>or both</i> , <i>propagation of aquatic life</i> , <i>recreation involving contact with the water</i> , <i>watering of livestock</i> , <i>propagation of wildlife</i> , and recreation not involving contact with water.
Dissolved Oxygen [mg/l] <i>Single Value</i>	--	[S.V.:] Nov.-May: □6.0 mg/l June-Oct.: □5.0 mg/l	<i>Propagation of aquatic life</i> , <i>recreation involving contact with the water</i> , <i>propagation of wildlife</i> , <i>watering of livestock</i> , municipal or domestic supply, <i>or both</i> , and recreation not involving contact with water.
Suspended Solids [mg/l] <i>Single Value</i>	--	[S.V.:] □80 mg/l	<i>Propagation of aquatic life</i> .
Turbidity [NTU] <i>Single Value</i>	--		<i>Propagation of aquatic life</i> , and municipal or domestic supply, <i>or both</i> .

		[d] b	
Color [PCU] Single Value	--	[e] 75 PCU	Municipal or domestic supply, or both, propagation of [A]aquatic life [b]. [and municipal or domestic supply]
Total Dissolved Solids [mg/l] Annual Average Single Value	[A-Avg.:] [S.V.:] □ 320 mg/l □ 390 mg/l	[A-Avg.:] □ 500 mg/l	Municipal or domestic supply [b] , or both, irrigation, and [stock] watering of livestock.
Chloride [mg/l] Annual Average Single Value	[A-Avg.:] [S.V.:] □ 13 mg/l □ 19 mg/l	[S.V.:] □ 250 mg/l	Municipal or domestic supply [b] , or both, propagation of wildlife [propagationb] , irrigation, and [stock] watering of livestock.
Sulfate [mg/l] Single Value	44 mg/l	[S.V.:] □ 250 mg/l	Municipal or domestic supply [b] , or both.
Sodium [SAR] Adsorption Ratio Annual Average	--	[A-Avg.:] □ 8	Irrigation [b] , and municipal or domestic supply, or both.
Alkalinity (as CaCO ₃) [mg/l]	--	less than 25% change from natural conditions	Propagation of [A]aquatic life [b] , and propagation of wildlife [propagationb] .
[Fecal Coliform No./100 ml] <i>Escherichia coli</i> Annual Geometric Mean Single Value	[A.G.M.:] □ 75 [S.V.:] □ 350]	[□ 200/400e] 126 MF/100 ml 235 MF/100 ml	Recreation involving contact with the [W]water [contact recreation], [nonecontact] recreation not involving contact with water, municipal or domestic supply, or both, irrigation, [wildlife propagation], and [stock] watering of livestock.

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

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

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

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

~~[e. Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.]~~

[Environmental Comm'n, Water Pollution Control Reg. part § 4.2.5, Table 15, eff. 5-2-78; A 1-25-79; 8-28-79; 1-25-80; 12-3-80]--(NAC A 9-13-85)--(Substituted in revision for NAC 445.13432)

445A.167 Walker River at inlet to Weber Reservoir.

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 [°C] Maximum ΔT_a Single Value	ΔT = 0°C _a	Nov.-Mar.: ≤13°C Apr.-June: ≤24°C _b Jul.-Oct.: ≤28°C ΔT ≤2°C	Propagation of [A] aquatic life [b] , and recreation involving contact with the water [contact-recreation] .
pH [Units] Single Value	--	[S.V.: 7.0–8.3] Within Range 6.5 - 9.0 SU ΔpH: ±0.5 SU Max.	Propagation of aquatic life, recreation involving contact with the [W] water [contact-recreationb] , propagation of wildlife [propagationb] , [aquatic-life] irrigation, [stock] watering of livestock, municipal or domestic supply, or both, and industrial supply.
Total Phosphates (as P) [mg/l] Annual Average Single Value	--	[A-Avg.: S.V.:] ≤0.26 mg/l ≤0.40 mg/l	Propagation of [A] aquatic life [b] , recreation involving contact with the water [contact-recreationb] , municipal or domestic supply, or both, and [noncontact] recreation not involving contact with water.
Nitrogen Species as [N] [mg/l] Annual Average Single Value Single Value	Total Nitrogen [A-Avg.:] [S.V.:] ≤1.2 mg/l ≤1.5 mg/l	Nitrate [S.V.:] ≤10 mg/l Nitrite [S.V.:] ≤1 mg/l _c Ammonia S.V.: ≤0.02 mg/l (un-ionized)	Municipal or domestic supply, or both [b] , propagation of aquatic life [b] , recreation involving contact with the water [contact-recreation] , [stock] watering of livestock, propagation of wildlife [propagationb] , and [noncontact] recreation not involving contact with water.
Dissolved Oxygen [mg/l] Single Value	--	[S.V.:] Nov.-May: ≤6.0 mg/l June-Oct.: ≤5.0 mg/l	Propagation of [A] aquatic life [b] , recreation involving contact with the water [contact-recreation] , propagation of wildlife [propagationb] , [stock] watering of livestock, municipal or domestic supply, or both, and [noncontact] recreation not involving contact with water.
Suspended Solids [mg/l] Single Value	--	[S.V.:] ≤80 mg/l	Propagation of [A] aquatic life [b] .
Turbidity [NTU] Single Value	--	[d] d	Propagation of [A] aquatic life [b] , and municipal or domestic supply, or both.

Color [PCU] <i>Single Value</i>	--	e 75 PCU	<i>Municipal or domestic supply, or both, propagation of [A]aquatic life [b]. [and municipal or domestic supply]</i>
Total Dissolved Solids [mg/l] <i>Annual Average</i> <i>Single Value</i>	[A-Avg.:] [S.V.:] □400 mg/l □450 mg/l	[A-Avg.:] □500 mg/l	<i>Municipal or domestic supply [b], or both, irrigation, and [stock] watering of livestock.</i>
Chloride [mg/l] <i>Annual Average</i> <i>Single Value</i>	[A-Avg.:] [S.V.:] □30 mg/l □35 mg/l	[S.V.:] □250 mg/l	<i>Municipal or domestic supply [b], or both, propagation of wildlife [propagation], irrigation, and [stock] watering of livestock.</i>
Sulfate [mg/l] <i>Annual Average</i> <i>Single Value</i>	[A-Avg.: S.V.:] □95 mg/l □110 mg/l	[S.V.:] □250 mg/l	<i>Municipal or domestic supply [b], or both.</i>
Sodium [SAR] <i>Adsorption Ratio</i> <i>Annual Average</i>	[SAR-A-Avg.:] □3	[A-Avg.:] □8	<i>Irrigation [b], and municipal or domestic supply, or both.</i>
Alkalinity (as CaCO ₃) [mg/l]	--	less than 25% change from natural conditions	<i>Propagation of [A]aquatic life [b], and propagation of wildlife [propagation].</i>
[Fecal Coliform No./100 ml] <i>Escherichia coli</i> <i>Annual Geometric Mean</i> <i>Single Value</i>	[A.G.M.: □100 S.V.: □200]	[□200/400e] <i>126 MF/100 ml</i> <i>235 MF/100 ml</i>	<i>Recreation involving contact with the [W]water [contact recreation], [nonecontact] recreation not involving contact with water, municipal or domestic supply, or both, irrigation, [wildlife propagation], and [stock] watering of livestock.</i>

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

b. ~~[The most restrictive beneficial use.]~~ *The temperature beneficial use standard is 21 C during February through June when Lahontan cutthroat trout are present in the reach from Walker Lake to Weber Reservoir (NAC 445A.168).*

c. ~~[Increase in color must not be more than 10 PCU above natural conditions.]~~ *The nitrite beneficial use standard is 0.06 mg/l during February through June when Lahontan cutthroat trout are present in the reach from Walker Lake to the Weber Reservoir (NAC 445A.168).*

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

e. ~~Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.]~~ *Increase in turbidity must not be more than 10 NTU above natural conditions.*

[Environmental Comm'n, Water Pollution Control Reg. part § 4.2.5, Table 17, eff. 5-2-78; A 1-25-79; 8-28-79; 1-25-80; 12-3-80]--(NAC A 9-13-85)--(Substituted in revision for NAC 445.13433)

445A.168 Walker River at Schurz Bridge.

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

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES AS DESIGNATED IN NAC 445A.159 (Most Stringent Use Listed First)
Temperature [°C Maximum ΔT_a] <i>Single Value</i>	ΔT = 0 °C _a	Nov.-Mar.: ≤ 13 °C Apr.-June: ≤ 23 °C <i>b</i> Jul.-Oct.: ≤ 28 °C ΔT ≤ 2 °C	<i>Propagation of [A]aquatic life[b], and recreation involving contact with the water [contact-recreation].</i>
pH [Units] <i>Single Value</i>	--	[S.V.: 7.0–8.3] <i>Within Range 6.5 - 9.0 SU</i> ΔpH: ±0.5 <i>SU</i> Max.	<i>Propagation of aquatic life, recreation involving contact with the [W]water [contact-recreationb], propagation of wildlife [propagationb], [aquatic-life.] irrigation, [stock] watering of livestock, municipal or domestic supply, or both, and industrial supply.</i>
Total Phosphates (as P) [mg/l] <i>Annual Average Single Value</i>	--	[A-Avg.: S.V.:] ≤ 0.17 <i>mg/l</i> ≤ 0.23 <i>mg/l</i>	<i>Propagation of [A]aquatic life[b], recreation involving contact with the water [contact-recreationb], municipal or domestic supply, or both, and [noncontact] recreation not involving contact with water.</i>
Nitrogen Species <i>as</i> [(N)]-mg/l] <i>Annual Average Single Value</i> <i>Single Value</i> <i>Single Value</i>	Total Nitrogen [A-Avg.:] [S.V.:] ≤ 1.2 <i>mg/l</i> ≤ 1.5 <i>mg/l</i>	Nitrate [S.V.:] ≤ 10 <i>mg/l</i> Nitrite [S.V.:] ≤ 1 <i>mg/l c</i> Ammonia S.V.: ≤ 0.02 <i>mg/l</i> (un-ionized)	<i>Municipal or domestic supply, or both[b], propagation of aquatic life[b], recreation involving contact with the water [contact-recreation], [stock] watering of livestock, propagation of wildlife [propagationb], and [noncontact] recreation not involving contact with water.</i>
Dissolved Oxygen [mg/l] <i>Single Value</i>	--	[S.V.:] Nov. [Apr.] <i>May</i> : ≤ 6.0 <i>mg/l</i> <i>May</i>] <i>June</i> -Oct.: ≤ 5.0 <i>mg/l</i>	<i>Propagation of [A]aquatic life[b], recreation involving contact with the water [contact-recreation], propagation of wildlife [propagationb], [stock] watering of livestock, municipal or domestic supply, or both, and [noncontact] recreation not involving contact with water.</i>
Suspended Solids [mg/l] <i>Annual Average Single Value</i>	[A-Avg.:] ≤ 60 <i>mg/l</i>	[S.V.:] ≤ 80 <i>mg/l</i>	<i>Propagation of [A]aquatic life[b].</i>
Turbidity [NTU] <i>Single Value</i>	--		<i>Propagation of [A]aquatic life[b], and municipal or domestic supply, or both.</i>

		d	
Color [PCU] <i>Single Value</i>	--	e 75 PCU	<i>Municipal or domestic supply, or both, propagation of [A]aquatic life[b], [and municipal or domestic supply]</i>
Total Dissolved Solids [mg/l] <i>Annual Average Single Value</i>	[A-Avg:] [S.V:] □390 mg/l □570 mg/l	[A-Avg:] □500 mg/l	Municipal or domestic supply [b] , <i>or both</i> , irrigation, and [stock] watering <i>of livestock</i> .
Chloride [s-mg/l] <i>Annual Average Single Value</i>	[A-Avg:] [S.V:] □23 mg/l □34 mg/l	[S.V:] □250 mg/l	Municipal or domestic supply [b] , <i>or both, propagation of</i> wildlife [propagationb] , irrigation, and [stock] watering <i>of livestock</i> .
Sulfate [mg/l] <i>Single Value</i>	--	[S.V:] □250 mg/l	Municipal or domestic supply [b] , <i>or both</i> .
Sodium [SAR] <i>Adsorption Ratio Annual Average</i>	[SAR-Avg:] □3	[A-Avg:] □8	Irrigation [b] , and municipal or domestic supply, <i>or both</i> .
Alkalinity (as CaCO ₃) [mg/l]	--	less than 25% change from natural conditions	<i>Propagation of [A]aquatic life[b], and propagation of</i> wildlife [propagationb] .
[Fecal Coliform No./100 ml] <i>Escherichia coli Annual Geometric Mean Single Value</i>	[A.G.M.: □50 S.V.: □110]	[□200/400e] <i>126 MF/100 ml 235 MF/100 ml</i>	<i>Recreation involving contact with the [W]water [contact recreation], [nonecontact] recreation not involving contact with water</i> , municipal or domestic supply, <i>or both</i> , irrigation, [wildlife propagation] , and [stock] watering <i>of livestock</i> .

- a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.
- b. ~~[The most restrictive beneficial use.]~~ *The temperature beneficial use standard is 21 C during February through June when Lahontan cutthroat trout are present.*
- c. ~~[Increase in color must not be more than 10 PCU above natural conditions.]~~ *The nitrite beneficial use standard is 0.06 mg/l during February through June when Lahontan cutthroat trout are present.*
- d. Increase in turbidity must not be more than 10 NTU above natural conditions.
- ~~[e. Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.]~~

(Added to NAC by Environmental Comm'n, eff. 9-13-85)--Substituted in revision for NAC 445.13434)

**AS PROPOSED WITH ALL CHANGES MADE
445A.168 Walker River at Schurz Bridge.**

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

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES AS DESIGNATED IN NAC 445A.159 (Most Stringent Use Listed First)
Temperature Single Value	$\Delta T = 0 \square C$ <i>a</i>	Nov.-Mar.: $\square 13 \square C$ Apr.-Jun. $\square 23 \square C$ <i>b</i> Jul.-Oct.: $\square 28 \square C$ $\Delta T \square 2 \square C$	Propagation of aquatic life, and recreation involving contact with the water.
pH Single Value	--	Within Range 6.5 - 9.0 SU $\Delta pH: \pm 0.5$ 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	--	$\square 0.17$ mg/l $\square 0.23$ 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	Total Nitrogen $\square 1.2$ mg/l $\square 1.5$ mg/l	Nitrate: $\square 10$ mg/l Nitrite: $\square 1$ mg/l ^c Ammonia S.V.: $\square .02$ (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 water.
Dissolved Oxygen Single Value	--	Nov.-May: $\square 6.0$ mg/l June-Oct: $\square 5.0$ 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 water.
Suspended Solids Annual Average Single Value	$\square 60$ mg/l	$\square 80$ mg/l	Propagation of aquatic life.
Turbidity Single Value	--	^d	Propagation of aquatic life, and municipal or domestic supply, or both.
Color Single Value	--	$\square 75$ PCU	Municipal or domestic supply, or both, and propagation of aquatic life.
Total Dissolved Solids Annual Average	$\square 390$ mg/l	$\square 500$ mg/l	Municipal or domestic supply, or both, irrigation, and watering of livestock.

Single Value	□570 mg/l		
Chloride Annual Average Single Value	□23 mg/l □34 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	□3 mg/l	□8 mg/l	Irrigation, and municipal or domestic supply, or both.
Alkalinity (as CaCO ₃) Single Value	--	less than 25% change from natural conditions	Propagation of aquatic life, and propagation of wildlife.
Escherichia coli Annual Geometric Mean Single Value		126 MF/100 ml 235 MF/100 ml	Recreation involving contact with the water, recreation not involving contact with 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 temperature beneficial use standard is □21 □C during February through June when Lahontan cutthroat trout are present.

c. The nitrite beneficial use standard is □0.06 mg/l during March through May when Lahontan cutthroat trout are present.

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

(Added to NAC by Environmental Comm'n, eff. 9-13-85)--Substituted in revision for NAC 445.13434)

445A.169 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 AS DESIGNATED IN NAC 445A.159 (Most Stringent Use Listed First)
Temperature {°C} Maximum ΔT_a Single Value	ΔT = 0°C _a	Nov.-Apr.: 13°C May-Jun.: 17°C Jul.-Oct.: 23°C ΔT 2°C _a	Propagation of [A] aquatic life [b] , and recreation involving contact with the water [contact-recreation] .
pH [Units] Single Value	--	[S.V.: 7.0–8.3] Within Range 6.5 - 9.0 SU ΔpH: ±0.5 SU Max.	Propagation of aquatic life, recreation involving contact with the [W] water [contact-recreationb] , propagation of wildlife [propagationb] , [aquatic-life] irrigation, [stock] watering of livestock, municipal or domestic supply, or both, and industrial supply.
Total Phosphates (as P) {—mg/l} Annual Average Single Value	[S.V.: 0.13 mg/l	[A-Avg.: 0.1 mg/l	Propagation of [A] aquatic life [b] , recreation involving contact with the water [contact-recreationb] , municipal or domestic supply, or both, and [noncontact] recreation not involving contact with water.
Nitrogen Species as {[N]—mg/l} Annual Average Single Value Single Value	Total Nitrate [s] [A-Avg.: [S.V.: 0.2 mg/l 0.27 mg/l	Nitrate [S.V.: 10 mg/l Nitrite [S.V.: 0.06 mg/l Ammonia S.V.: 0.02 mg/l (un-ionized)	Municipal or domestic supply, or both [b] , propagation of aquatic life [b] , recreation involving contact with the water [contact-recreation] , [stock] watering of livestock, propagation of wildlife [propagationb] , and [noncontact] recreation not involving contact with water.
Dissolved Oxygen {—mg/l} Single Value	--	[S.V.: Nov.-May: 6.0 mg/l June-Oct.: 5.0 mg/l	Propagation of [A] aquatic life [b] , recreation involving contact with the water [contact-recreation] , propagation of wildlife [propagationb] , [stock] watering of livestock, municipal or domestic supply, or both, and [noncontact] recreation not involving contact with water.
Suspended Solids {—mg/l} Single Value		[S.V.: 80 mg/l	Propagation of [A] aquatic life [b] .
Turbidity {—NTU} Single Value	--		Propagation of [A] aquatic life [b] , and municipal or domestic supply, or both.

		[d] b	
Color [PCU] Single Value	--	[e] 75 PCU	<i>Municipal or domestic supply, or both, propagation of [A]aquatic life[b]. and municipal or domestic supply]</i>
Total Dissolved Solids [mg/l] Annual Average Single Value	[A-Avg:] [S.V:] □ 110 mg/l □ 130 mg/l	[A-Avg:] □ 500 mg/l	Municipal or domestic supply [b] , or both, irrigation, and [stock] watering of livestock.
Chloride [s mg/l] Annual Average Single Value	[A-Avg:] [S.V:] □ 5 mg/l □ 7 mg/l	[S.V:] □ 250 mg/l	Municipal or domestic supply [b] , or both, propagation of wildlife [propagationb] , irrigation, and [stock] watering of livestock.
Sulfate [mg/l] Single Value		[S.V:] □ 250 mg/l	Municipal or domestic supply [b] , or both.
Sodium [SAR] Adsorption Ratio Annual Average	--	[A-Avg:] □ 8	Irrigation [b] , and municipal or domestic supply, or both.
Alkalinity (as CaCO ₃) [mg/l]	--	less than 25% change from natural conditions	<i>Propagation of [A]aquatic life[b], and propagation of wildlife [propagationb].</i>
[Fecal Coliform No./100 ml] <i>Escherichia coli</i> Annual Geometric Mean Single Value	[A.G.M.: □100 S.V.: □200]	[□200/400e] 126 MF/100 ml 235 MF/100 ml	<i>Recreation involving contact with the [W]water [contact recreation], [nonecontact] recreation not involving contact with water, municipal or domestic supply, or both, irrigation, [wildlife propagation] and [stock] watering of livestock.</i>

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

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

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

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

~~[e. Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.]~~

[Environmental Comm'n, Water Pollution Control Reg. part § 4.2.5, Table 18, eff. 5-2-78; A 1-25-79; 8-28-79; 1-25-80; 12-3-80]--(NAC A 9-13-85)--(Substituted in revision for NAC 445.13435)