#### ADOPTED REGULATION OF THE

#### STATE ENVIRONMENTAL COMMISSION

#### **LCB File No. R133-10**

Effective December 16, 2010

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

AUTHORITY: §§1-18, NRS 445A.425 and 445A.520.

A REGULATION relating to water quality; establishing certain water quality standards in the Snake Region; revising certain water quality standards for certain bodies of water in the Snake Region; and providing other matters properly relating thereto.

- **Section 1.** Chapter 445A of NAC is hereby amended by adding thereto the provisions set forth as sections 2 to 5, inclusive, of this regulation.
- Sec. 2. The limits of this table apply to the body of water known as Taylor Canyon Creek from its origin to its confluence with the South Fork of the Owyhee River. Taylor Canyon Creek is located in Elko County.

## STANDARDS OF WATER QUALITY

## Taylor Canyon Creek

	REQUIREMENTS	WATER QUALITY				Ве	enef	icial	l Us	e a			
PARAMETER	TO MAINTAIN  EXISTING HIGHER  QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X	X	X	X	X			
Aquatic Life Species of	Concern						•	•	•	•	•	•	

	REQUIREMENTS	WATER QUALITY				В	enef	icia	l Us	e a			
PARAMETER	TO MAINTAIN  EXISTING HIGHER  QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Temperature - °C		S.V. May-Oct < 21			*	X							
Maximum		S.V. Nov-Apr < 13				Λ							
pH - SU		S.V. 6.5 - 9.0			*	X		X					
Total Phosphorous  (as P) - mg/l		S.V. ≤ 0.1 <sup>b</sup>			*	*	X	X					
		Nitrate S.V. ≤ 10			X			*					
Nitrogen Species		Nitrite S.V. $\leq 0.06$			*			X					
(as N) - mg/l		Total Nitrogen b			*	*	X	11					
Total Ammonia													
(as N) - mg/l		c			*								
Dissolved Oxygen - mg/l		$S.V. \geq 6.0$	X		*	X	X	X		X			
Suspended Solids - mg/l		<i>S.V.</i> ≤ 25			*			X					
Turbidity - NTU		S.V. ≤ 10			*			X					
Total Dissolved Solids - mg/l		<i>S.V.</i> ≤ 500	X	X				*					
Chlorides - mg/l		$S.V. \leq 250$	X	X				*		X			
Sulfate - mg/l		$S.V. \leq 250$						*					
E. coli - No./100 ml		$A.G.M. \le 126$ $S.V. \le 410$				*	X						
Fecal Coliform - No./100 ml		S.V. ≤ 1,000	*	*			X	X		*			
Color - PCU		$S.V. \leq 75$						*					

<sup>\* =</sup> The most restrictive beneficial use.

Sec. 3. The limits of this table apply to the body of water known as Trout Creek from the Nevada-Idaho state line to its confluence with Goose Creek. This segment of Trout Creek is located in Elko County.

### STANDARDS OF WATER QUALITY

#### Trout Creek at Goose Creek

	REQUIREMENTS	WATER QUALITY				В	enej	icia	l Us	e <sup>a</sup>			
PARAMETER  Beneficial Uses	TO MAINTAIN  EXISTING HIGHER  QUALITY	STANDARDS FOR BENEFICIAL USES	X Livestock	X Irrigation	X Aquatic	X Contact	X Noncontact	X Municipal	X Industrial		Aesthetic	Enhance	Marsh
Aquatic Life Species of	Concern												
Temperature - °C  Maximum		S.V. May-Oct < 21 S.V. Nov-Apr < 13			*	X							
pH - SU		S.V. 6.5 - 9.0			*	X		X					
Total Phosphorous (as P) - mg/l		$S.V. \leq 0.1^{b}$			*	*	X	X					
Nitrogen Species		Nitrate S.V. ≤ 10			X			*					
(as N) - mg/l		Nitrite S.V. $\leq 0.06$			*			X					
		Total Nitrogen <sup>b</sup>			*	*	X						
Total Ammonia (as N) - mg/l		c			*								

<sup>&</sup>lt;sup>a</sup> Refer to NAC 445A.122 and section 26 of LCB File No. R160-06 for beneficial use terminology.

b The water must not contain nutrient concentrations from a source other than a natural source which cause the growth of algae or aquatic plants in amounts that interfere with any beneficial uses of the water.

<sup>&</sup>lt;sup>c</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.

	REQUIREMENTS	WATER QUALITY				В	enef	icia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN  EXISTING HIGHER  QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	әјіппім	Aesthetic	Enhance	Marsh
Dissolved Oxygen - mg/l		$S.V. \geq 6.0$	X		*	X	X	X		X			
Suspended Solids - mg/l		$S.V. \leq 25$			*			X					
Turbidity - NTU		<i>S.V.</i> ≤ 10			*			X					
Total Dissolved Solids - mg/l		<i>S.V.</i> ≤ 500	X	X				*					
Chlorides - mg/l		S.V. ≤ 250	X	X				*		X			
Sulfate - mg/l		S.V. ≤ 250						*					
E. coli - No./100 ml		$A.G.M. \le 126$ $S.V. \le 410$				*	X						
Fecal Coliform - No./100 ml		S.V. ≤ 1,000	*	*			X	X		*			
Color - PCU		$S.V. \leq 75$			*			*					

<sup>\* =</sup> The most restrictive beneficial use.

Sec. 4. The limits of this table apply to the body of water known as Trout Creek from its origin to its confluence with Salmon Falls Creek. This segment of Trout Creek is located in Elko County.

<sup>&</sup>lt;sup>a</sup> Refer to NAC 445A.122 and section 26 of LCB File No. R160-06 for beneficial use terminology.

b The water must not contain nutrient concentrations from a source other than a natural source which cause the growth of algae or aquatic plants in amounts that interfere with any beneficial uses of the water.

<sup>&</sup>lt;sup>c</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.

# STANDARDS OF WATER QUALITY

# Trout Creek at Salmon Falls Creek

	REQUIREMENTS	WATER QUALITY				В	enef	icia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN  EXISTING HIGHER  QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X		X	X	X			
Aquatic Life Species of C	Concern					ı	ı		ı				
Temperature - °C  Maximum		S.V. May-Oct < 21 S.V. Nov-Apr < 13			*	X							
pH - SU		S.V. 6.5 - 9.0			*	X		X					
Total Phosphorous  (as P) - mg/l		$S.V. \leq 0.1^{b}$			*	*	X	X					
Nitrogen Species		Nitrate S.V. ≤ 10			X			*					
(as N) - mg/l		Nitrite S.V. $\leq 0.06$			*			X					
		Total Nitrogen b			*	*	X						
Total Ammonia (as N) - mg/l		c			*								
Dissolved Oxygen - mg/l		<i>S.V.</i> ≥ 6.0	X		*	X	X	X		X			
Suspended Solids - mg/l		$S.V. \leq 25$			*			X					
Turbidity - NTU		<i>S.V.</i> ≤ 10			*			X					
Total Dissolved Solids - mg/l		<i>S.V.</i> ≤ 500	X	X				*					
Chlorides - mg/l		<i>S.V.</i> ≤ 250	X	X				*		X			
Sulfate - mg/l		$S.V. \leq 250$						*					
E. coli - No./100 ml		$A.G.M. \le 126$ $S.V. \le 410$				*	X						

	REQUIREMENTS	WATER QUALITY				В	enef	icial	Us	e a			
PARAMETER	TO MAINTAIN  EXISTING HIGHER  QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Fecal Coliform - No./100 ml		S.V. ≤ 1,000	*	*			X	X		*			
Color - PCU		S.V. ≤ 75						*					

<sup>\* =</sup> The most restrictive beneficial use.

Sec. 5. The limits of this table apply to the body of water known as Jack Creek from its origin to its confluence with the Jarbidge River. Jack Creek is located in Elko County.

## STANDARDS OF WATER QUALITY

# Jack Creek at Jarbidge River

	REQUIREMENTS	WATER QUALITY				Be	enef	icial	Use	e <sup>a</sup>			
PARAMETER	TO MAINTAIN  EXISTING HIGHER  QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X	X	X	X	X			
Aquatic Life Species of	Concern					l		I		I			
Temperature - °C		S.V. May-Oct < 21			*	X							
Maximum		S.V. $Nov$ - $Apr$ < 7				A							
p <b>H - S</b> U		S.V. 6.5 - 9.0			*	X		X					

X = Beneficial use.

<sup>&</sup>lt;sup>a</sup> Refer to NAC 445A.122 and section 26 of LCB File No. R160-06 for beneficial use terminology.

The water must not contain nutrient concentrations from a source other than a natural source which cause the growth of algae or aquatic plants in amounts that interfere with any beneficial uses of the water.

<sup>&</sup>lt;sup>c</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.

	REQUIREMENTS	WATER QUALITY				В	enef	icia	Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN  EXISTING HIGHER  QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Total Phosphorous  (as P) - mg/l		$S.V. \leq 0.1^b$	7	1	*	*	X	X	1			7	I
Nitrogen Species		Nitrate S.V. ≤ 10			X			*					
(as N) - mg/l		Nitrite S.V. $\leq 0.06$			*			X					
		Total Nitrogen <sup>b</sup>			*	*	X						
Total Ammonia		c			*								
(as N) - mg/l													
Dissolved Oxygen -		$S.V. \geq 6.0$	X		*	X	X	X		X			
mg/l													
Suspended Solids - mg/l		$S.V. \leq 25$			*			X					
Turbidity - NTU		<i>S.V.</i> ≤ 10			*			X					
Total Dissolved Solids - mg/l		S.V. ≤ 500	X	X				*					
		G.V. < 350	1/	v				*		v			
Chlorides - mg/l		S.V. ≤ 250	X	X						X			
Sulfate - mg/l		$S.V. \leq 250$						*					
E. coli - No./100 ml		$A.G.M. \leq 126$				*	X						
		$S.V. \leq 410$											
Fecal Coliform - No./100 ml		S.V. ≤ 1,000	*	*			X	X		*			
Color - PCU		$S.V. \leq 75$						*					

<sup>\* =</sup> The most restrictive beneficial use.

<sup>&</sup>lt;sup>a</sup> Refer to NAC 445A.122 and section 26 of LCB File No. R160-06 for beneficial use terminology.

**Sec. 6.** Section 26 of LCB File No. R160-06 is hereby amended to read as follows:

Sec. 26. The designated beneficial uses for select bodies of water within the Snake Region are prescribed in this section:

		Ber	nefic	cial	Uses	S								Water Quality
Water Body Name	Segment Description	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlite	Aesthetic	Enhance	Marsh	Aquatic Species of Concern	Standard NAC Reference
<del>[Big]</del> Goose Creek	[At Ranch.] Within the State of Nevada.	X	X	X	X	X	X		X					section 28 of this regulation
Salmon Falls Creek	[At U.S. Highway 93 south of Jackpot.] From the confluence of the North and South Forks of Salmon Falls Creek to the Nevada-Idaho state line.	Х	X	x	X	x	X	X	X					section 29 of this regulation
Shoshone Creek	[Jackpot to Delaplain Road.] From the Nevada-Idaho state line to its confluence with Salmon Falls Creek.	Х	X	X	X	X	X	X	X					section 30 of this regulation
Jarbidge River, East Fork	[At] From its origin to the  Nevada-Idaho state line.	X	X	X	X	X	X	X	X					section 31 of this regulation
Jarbidge River, above Jarbidge	[Upstream from Jarbidge at bridge.] From its origin to the bridge above the town of Jarbidge.	Х	X	X	X	X	X	X	X					section 32 of this regulation

b The water must not contain nutrient concentrations from a source other than a natural source which cause the growth of algae or aquatic plants in amounts that interfere with any beneficial uses of the water.

<sup>&</sup>lt;sup>c</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.

		Ber	nefic	ial U	Jses	5								Water Quality
Water Body Name		Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlite	Aesthetic	Ennance	Marsh	Aquatic Species	Standard NAC
below Jarbidge	Downstream from Jarbidge at bridge.] From the bridge above the town of Jarbidge to the Nevada-Idaho state line.	х	Х	Х	X	X	X	X	X					section 33 of this regulation
Bruneau River	[At Diamond "A" Road.] From its origin to the Nevada-Idaho state line.	Х	Х	Х	X	X	X	X	X					section 34 of this regulation
[East Fork] above	[Above Mill Creek.] From Wildhorse Reservoir to its confluence with Mill Creek.	X	Х	X	X	X	X	X	X					section 35 of this regulation
East Fork at New	[At New China Dam.] From its confluence with Mill Creek to the border of the Duck Valley Indian Reservation.	Х	Х	Х	X	X	X	Х	X					section 36 of this regulation
FOwyhee River,  East Fork at the state line	At the Nevada Idaho state line.	X	X											section 37 of this
Petan Access	At Petan Access Road.] From its origin to the Nevada-Idaho state line.	Х	Х	Х	X	X	X	X	X					section 38 of this regulation
Salmon Falls Creek, North Fork	From the national forest boundary to its confluence with the South Fork of Salmon Falls Creek.	х	Х	Х	X	X	X	X	X				Trout	section 39 of this regulation

		Ber	nefic	ial U	Jses	1								Water Quality
Name	Segment Description	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Еппапсе	Marsh	Aquatic Species of Concern	Standard NAC Reference
Salmon Falls Creek, South Fork	From the national forest boundary to its confluence with the North Fork of Salmon Falls Creek.		Х	X	Х	х	X	X	X				Trout	section 40 of this regulation
the national forest	From its origin to the national forest boundary.	X	X	Х	Х	Х	X		X					section 41 of this regulation
the South Fork of Salmon Falls	From the national forest boundary to its confluence with the South Fork of Salmon Falls Creek.		Х	X	х	х	X	X	X				Trout	section 42 of this regulation
	From its origin to the national forest boundary.	Х	Х	X	Х	Х	X		X					section 43 of this regulation
Creek at the South Fork of Salmon	From the national forest boundary to its confluence with the South Fork of Salmon Falls Creek.	X	X	Х	Х	X	X	X	X				Trout	section 44 of this regulation
the national forest	From its origin to the national forest boundary.	Х	Х	X	Х	Х	X		X					section 45 of this regulation
the South Fork of Salmon Falls	From the national forest boundary to its confluence with the South Fork of Salmon Falls Creek.		Х	X	Х	Х	Х	X	X				Trout	section 46 of this regulation

		Ber	nefic	ial I	Uses	S								Water Quality
Water Body Name	Segment Description	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Ennance	Marsh	Aquatic Species	Standard NAC Reference
Bear Creek	From its origin to the point of diversion for the Jarbidge municipal water supply, near the east line of section 17, T. 46 N., R. 58 E., M.D.B. & M.		X	X	X	X	X		X					section 47 of this regulation
76 Creek	The entire length.	X	X	Х	X	X	X	X	X				Trout	section 48 of this regulation
Owyhee River, East Fork above Wildhorse Reservoir	From its origin to Wildhorse Reservoir.	X	X	Х	Х	X	X		X					section 49 of this regulation
Deep Creek	From its origin to Wildhorse Reservoir.	X	X	X	X	X	X		X					section 50 of this regulation
Penrod Creek, including tributaries	From its origin, including its tributaries, to Wildhorse Reservoir.	X	X	X	X	X	X		X					section 51 of this
Hendricks Creek	From its origin to Wildhorse Reservoir.	X	X	X	X	X	X		X					section 52 of this regulation
Wildhorse Reservoir	The entire reservoir.	X	X	X	X	X	X	X	X				Trout	section 53 of this regulation
Brown's Gulch	From its origin to the point of diversion for the Mountain City municipal water supply, near the south line of section 24, T. 46 N., R. 53 E., M.D.B. & M.		X	X	X	X	X		X					section 54 of this regulation

		Ber	nefic	ial I	Uses	S								Water Quality
Water Body Name	Segment Description	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Еппапсе	Marsh	Aquatic Species	Standard NAC Reference
Jack Creek	From its origin to its confluence with Harrington Creek.	X	X	X	X	X	X		X					section 55 of this regulation
Harrington Creek	From its confluence with Jack Creek to the South Fork of the Owyhee River.	X	X	X	X	X	X	X	X				Trout	section 56 of this
Bull Run Reservoir	The entire reservoir.	X	X	X	X	X	X	X	X				Trout	section 57 of this regulation
Wilson Reservoir	The entire reservoir.	X	X	X	X	X	X	X	X				Trout	section 58 of this regulation
Taylor Canyon Creek	From its origin to its confluence with the South Fork of the Owyhee River.	X	X	X	X	X	X	X	X					section 2 of LCB File No. R133-10
Trout Creek at Goose Creek	From the Nevada-Idaho state line to its confluence with Goose Creek.	X	X	X	X	X	X	X	X					section 3 of LCB File No. R133-10
Trout Creek at Salmon Falls Creek	From its origin to its confluence with Salmon Falls Creek.	X	X	X	X	X	X	X	X					section 4 of LCB File No. R133-10
Jack Creek at Jarbidge River	From its origin to its confluence with the Jarbidge River.	X	X	X	X	X	X	X	X					section 5 of LCB File No. R133-10
Irrigation	Irrigation	1	1		1	-	-	1	<u> </u>			I	1	
Livestock	Watering of livestock													
Contact	Recreation involving contact wi	th th	ne w	ater										
Noncontact	Recreation not involving contac	t wi	th th	e w	ater									

		Beneficial Uses		Water Quality
Water Body Name	Segment Description	Livestock Irrigation Aquatic Contact Noncontact Municipal	of Concern	Standard NAC Reference
Industrial	Industrial supply			
Municipal	Municipal or domestic supply, o	r both		
Wildlife	Propagation of wildlife			
Aquatic	Propagation of aquatic life			
Aesthetic	Waters of extraordinary ecologi	cal or aesthetic value		
Enhance	Enhancement of water quality			

**Sec. 7.** Section 27 of LCB File No. R160-06 is hereby amended to read as follows:

Sec. 27. The standards for water quality for [select bodies of water within] the Snake Region are prescribed in sections 27 to 58, inclusive, of this regulation [...], and sections 2 to 5, inclusive, of LCB File No. R133-10.

**Sec. 8.** Section 28 of LCB File No. R160-06 is hereby amended to read as follows:

Sec. 28. The limits of this table apply to the body of water known as [Big] Goose Creek [for the control point at Ranch. Big] within the State of Nevada. Goose Creek is located in Elko County.

#### STANDARDS OF WATER QUALITY

#### [Big] Goose Creek

	REQUIREMENTS	WATER QUALITY	Beneficial Use <sup>a</sup>
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock Irrigation Aquatic Contact Noncontact Municipal Industrial Wildlite Aesthetic Enhance Marsh

	REQUIREMENTS	WATER QUALITY				I	Bene	eficia	ıl Us	se <sup>a</sup>			
PARAMETER	TO MAINTAIN  EXISTING HIGHER  QUALITY	STANDARDS FOR BENEFICIAL USES	X Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	X Industrial	Wildlife	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X	X	X	X	X			
Aquatic Life Species of	Concern							1					
Temperature - °C		S.V. May-Oct < 21											
		S.V. Nov-Apr $< 13$			*	X							
ΔT <sup>b</sup> - °C	$\Delta T = 0$	$\Delta T < 1$											
pH - SU	ΔpH ±0.5	S.V. 6.5 - 9.0			*	X		X					
Total Phosphorus		S.V. [←] ≤ 0.1			*	*	X	X					
(as P) - mg/l		5.7.[1]= 0.1						11					
Nitrogen Species	Nitrate S.V. $\leq 1.0$	Nitrate S.V. $\leq 10$			*	X	X	*					
(as N) - mg/l	1 made 5. V. [ 4 = 1.0	Nitrite S.V. $ \le 0.06 $											
Total Ammonia		с			*								
(as N) - mg/l													
Dissolved Oxygen -		S.V. [→] ≥ 6.0	X		*	X	X	X		X			
mg/l		5[ ]_ 0.0											
Suspended		S.V. [←] ≤ 25			*			X					
Solids - mg/l		5. V. [4] 2 25						Λ					
Turbidity - NTU		S.V. [←] ≤ 10			*			X					
Total Dissolved	S.V. [←] ≤ 185	S.V. [←] ≤ 500	X	X				*					
Solids - mg/l	5. 7. [4] 2 103	5. v. [ <del>*]</del> <u>5</u> 500	Λ	Λ									
Chlorides - mg/l	S.V. [←] ≤ 9.0	S.V. [←] ≤ 250	X	X				*		X			
Sulfate - mg/l		$S.V. \leq 250$						*					
Alkalinity		< 25% change from natural			*					X			
(as CO <sub>3</sub> ) - mg/l		conditions			ľ					A			
E coli - No./100 ml		AGM ≤ 126				*	X						
		$S.V. \leq 410$					Λ						

	REQUIREMENTS	WATER QUALITY				В	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	restock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	sh
Fecal Coliform - No./100 ml	QUALITI	$[< 200/400^{\text{d}}]$ $S.V. \le 1,000$	* LIV6	8 LLII	Aqu		uo <sub>N</sub>	X Wini	npur			Enh	Marsh
Color - PCU		S.V. ≤ 1,000 [°] S.V. ≤ 75						*					
		$3.7. \leq /3$											

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and section 26 of this regulation for beneficial use terminology.
- 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.
- <sup>c</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.
- [d]—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.
- e—Increase in color must not be more than 10 color units above natural conditions.]
  - **Sec. 9.** Section 29 of LCB File No. R160-06 is hereby amended to read as follows:
  - Sec. 29. The limits of this table apply to the body of water known as Salmon Falls Creek [for the control point at U.S. Highway 93 south of Jackpot.] from the confluence of the North and South Forks of Salmon Falls Creek to the Nevada-Idaho state line. Salmon Falls Creek is located in Elko County.

#### STANDARDS OF WATER QUALITY

#### Salmon Falls Creek

PARAMETER	REQUIREMENTS	WATER QUALITY	Beneficial Use <sup>a</sup>

	TO MAINTAIN	STANDARDS FOR											
	EXISTING HIGHER	BENEFICIAL USES	ck	uc			itact	pal	lal	1)	10	စ	
	QUALITY		Livestock	X Irrigation	Aquatic	X Contact	Noncontact	Municipal	X Industrial	Wildlite	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X	X	X	X	X			
Aquatic Life Species o	of Concern					1		1		ı		1	1
Temperature - °C		S.V. May-Oct < 21											
		S.V. Nov-Apr < 13			*	X							
ΔT <sup>b</sup> - °C	$\Delta T = 0$	$\Delta T \le 1$											
pH - SU	$\Delta pH \pm 0.5$	S.V. 6.5 - 9.0			*	X		X					
Total Phosphorus		S.V. [←] ≤ 0.1			*	*	X	X					
(as P) - mg/l		5.7.[4] 2 0.1					Λ	Λ					
Nitrogen Species	Nitrata C.V. [2] 1.0	Nitrate S.V. $\leq 10$			*	X	X	*					
(as N) - mg/l	Nitrate S.V.	Nitrite S.V.			ľ	Λ	Λ						
Total Ammonia		С			*								
(as N) - mg/l													
Dissolved Oxygen -		S.V. [→] ≥6.0	X		*	X	X	X		X			
mg/l		5. 7. [-] 20.0	21			7	1	24		71			
Suspended Solids -		S.V. [←] ≤ 25			*			X					
mg/l		3.11[12 25											
Turbidity - NTU		S.V. [←] ≤ 10			*			X					
Total Dissolved	S.V. [←] ≤ 250	S.V. [←] ≤ 500	X	X				*					
Solids - mg/l	3. V. <del>[1]</del> ≤ 230	5. V. [-] <u>5</u> 300	Λ	Λ									
Chlorides - mg/l	S.V. [←] ≤ 14.0	S.V. [←] ≤ 250	X	X				*		X			
Sulfate - mg/l		S.V. ≤ 250						*					
Alkalinity		< 25% change from natural			*					X			
(as CO <sub>3</sub> ) - mg/l		conditions								Λ			
E coli - No./100 ml		AGM ≤ 126				*	X						
		S.V. ≤ 410					^						

	REQUIREMENTS	WATER QUALITY				Е	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN	STANDARDS FOR											
	EXISTING HIGHER	BENEFICIAL USES	ock	lon	၁	55	ntact	ıpal	nal	Ie	tic	es	
	QUALITY	22. 22. 121. 12. 622.5	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlite	Aesthetic	Enhance	Marsh
Fecal Coliform -	S.V. [←] ≤ 90	<del>[&lt; 200/400<sup>d</sup>]</del>	*	<del>[X]</del>		<del>[*]</del>	X	X		<del>[X]</del>			
No./100 ml	5. 7. [4] 2 70	$S.V. \leq 1,000$		*		. 1	Λ	Λ		*			
Color - PCU		<del>[°]</del>						*					
		<i>S.V.</i> ≤ 75											

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and section 26 of this regulation for beneficial use terminology.
- 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.
- <sup>c</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.
- [d]—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.
- <sup>e</sup>—Increase in color must not be more than 10 color units above natural conditions.]
  - **Sec. 10.** Section 30 of LCB File No. R160-06 is hereby amended to read as follows:
  - Sec. 30. The limits of this table apply to the body of water known as Shoshone Creek [for the control point at Jackpot to Delaplain Road.] from the Nevada-Idaho state line to its confluence with Salmon Falls Creek. Shoshone Creek is located in Elko County.

#### STANDARDS OF WATER QUALITY

#### Shoshone Creek

PARAMETER	REQUIREMENTS	WATER QUALITY	Beneficial Use <sup>a</sup>

	TO MAINTAIN	STANDARDS FOR		1						I			
							1						
	EXISTING HIGHER	BENEFICIAL USES	ock	100	10	ct	ontac	upal	rial	ite	etic	ooi	_
	QUALITY		Livestock	X Irrigation	Aquatic	Contact	Noncontact	Municipal	X Industrial	Wildlite	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X	X	X	X	X	ł	_	I
Aquatic Life Species of	f Concern						ı	ı	<u> </u>		<u> </u>	l	
Temperature - °C		S.V. May-Oct < 21											
		S.V. Nov-Apr < 13			*	X							
ΔT <sup>b</sup> - °C	$\Delta T = 0$	$\Delta T < 1$											
pH - SU	ΔpH ±0.5	S.V. 6.5 - 9.0			*	X		X					
Total Phosphorus													
(as P) - mg/l		S.V. <del>[&lt;]</del> ≤ 0.1			*	*	X	X					
Nitrogen Species		Nitrate S.V. $\leq 10$											
(as N) - mg/l	Nitrate S.V.	Nitrite S.V. $\leq 0.06$			*	X	X	*					
Total Ammonia		С			*								
(as N) - mg/l					*								
Dissolved Oxygen -		CV 515 ( 0	37		*	37	37	37		v			
mg/l		S.V. <mark>▷]</mark> ≥ 6.0	X		*	X	X	X		X			
Suspended		GW E 2 - 25			*			37					
Solids - mg/l		S.V. [←] ≤ 25			*			X					
Turbidity - NTU		S.V. [←] ≤ 10			*			X					
Total Dissolved	G.V. F. J. + 250	G X F 3 + 500	7.7	**				*					
Solids - mg/l	S.V. [←] ≤ 250	S.V. [←] ≤ 500	X	X				*					
Chlorides - mg/l	S.V. [←] ≤ 15.0	S.V. [←] ≤ 250	X	X				*		X			
Sulfate - mg/l		S.V. ≤ 250						*					
Alkalinity		< 25% change from natural			*					v			
(as CO <sub>3</sub> ) - mg/l		conditions			T					X			
E coli - No./100 ml		AGM ≤ 126				*	37						
		S.V. ≤ 410				*	X						
	ļ		1	<del></del>	1		<u> </u>	1	1	1	1	<u> </u>	Щ.

	REQUIREMENTS	WATER QUALITY				F	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	Jivestock	Irrigation	Aquatic	ontact	Noncontact	Municipal	Industrial	Wildlite	Aesthetic	Enhance	rsh
Fecal Coliform -		[ <del>&lt; 200/400 <sup>d</sup></del> ]	* LIV	Ĕ <del>[X]</del>	Aqı		ю Х	n X	pur	\ <u>X</u>		Ent	Marsh
No./100 ml		<i>S.V.</i> ≤ 1,000		*		<del>[*]</del>	Λ	Λ		*			
Color - PCU		$S.V. \leq 75$						*					

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and section 26 of this regulation for beneficial use terminology.
- 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.
- <sup>c</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.
- [d]—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.
- <sup>e</sup>—Increase in color must not be more than 10 color units above natural conditions.]
  - **Sec. 11.** Section 31 of LCB File No. R160-06 is hereby amended to read as follows:
  - Sec. 31. The limits of this table apply to the body of water known as the East Fork of Jarbidge River [at] *from its origin to* the Nevada-Idaho state line. The East Fork of Jarbidge River is located in Elko County.

#### STANDARDS OF WATER QUALITY

Jarbidge River, East Fork

PARAMETER	REQUIREMENTS	WATER QUALITY	Beneficial Use <sup>a</sup>

	TOMADITADI	CTANDARDS FOR		T	1	1	T	1	1	1			
	TO MAINTAIN	STANDARDS FOR											
	EXISTING HIGHER	BENEFICIAL USES	ck	on	ပ		ntact	pal	ıal	e	tic	e.	
	QUALITY		Livestock	X Irrigation	Aquatic	Contact	Noncontact	Municipal	X Industrial	Wildlite	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X	X	X	X	X			
Aquatic Life Species of	of Concern				1		1		-	<u>I</u>	1		
Temperature - °C		S.V. May-Oct < 21											
		S.V. Nov-Apr < 7			*	X							
ΔT <sup>b</sup> - °C	$\Delta T = 0$	ΔT < 1											
pH - SU	ΔpH ±0.5	S.V. 6.5 - 9.0			*	X		X					
Total Phosphorus							37	7.7					
(as P) - mg/l		S.V. [<] ≤ 0.1			*	*	X	X					
Nitrogen Species		Nitrate S.V. $\leq 10$			<u> </u>								
(as N) - mg/l	Nitrate S.V.	Nitrite S.V. $\leq 0.06$			*	X	X	*					
Total Ammonia		c			*								
(as N) - mg/l													
Dissolved Oxygen -		CV 51 > (0	v		*	X	X	X		X			
mg/l		S.V. [→] ≥ 6.0	X			A	Λ	A		Λ			
Suspended Solids -		C.V. [-] - 25			*			v					
mg/l		S.V. [←] ≤ 25						X					
Turbidity - NTU		S.V. [←] ≤ 10			*			X					
Total Dissolved	G.V. F.J. (200	G. I. J. a. 500	7.7	3.7				*					
Solids - mg/l	S.V. [←] ≤ 200	S.V. [←] ≤ 500	X	X				~					
Chlorides - mg/l	S.V. [←] ≤ 6.0	S.V. [←] ≤ 250	X	X				*		X			
Sulfate - mg/l		S.V. ≤ 250						*					
Alkalinity		< 25% change from natural	+		*	+		+		v			
(as CO <sub>3</sub> ) - mg/l		conditions			7					X			
E coli - No./100 ml		AGM ≤ 126				*	37						
		S.V. ≤ 410				r	X						
ļ	<u> </u>	ļ			4					1	1		ــــــ

	REQUIREMENTS	WATER QUALITY				В	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN	STANDARDS FOR											
	EXISTING HIGHER	BENEFICIAL USES	Jivestock	thon	ıtıc	act	Noncontact	Municipal	trial	lite	netic	nce	h
	QUALITY		_	1	Aquatic	Contact	Nonc	Mun	Industrial	_	Aesthetic	Enhance	Marsh
Fecal Coliform -	S.V. [←] ≤ 100	<del>[&lt; 200/400</del> <sup>€</sup> ]	*	<del>[X]</del>		<del>[*]</del>	X	X		<del>[X]</del>			
No./100 ml		S.V. ≤ 1,000		*						*			
Color - PCU		<del>[e]</del>						*					
		$S.V. \leq 75$											

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and section 26 of this regulation for beneficial use terminology.
- b 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.
- <sup>c</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.
- [d] 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.
- <sup>e</sup>—Increase in color must not be more than 10 color units above natural conditions.]
  - **Sec. 12.** Section 32 of LCB File No. R160-06 is hereby amended to read as follows:
  - Sec. 32. The limits of this table apply to the body of water known as Jarbidge River [for the control point upstream from Jarbidge at bridge.] from its origin to the bridge above the town of Jarbidge. This segment of the Jarbidge River is located in Elko County.

#### STANDARDS OF WATER QUALITY

Jarbidge River, above Jarbidge

PARAMETER	REQUIREMENTS	WATER QUALITY	Beneficial Use <sup>a</sup>

	TO MAINTAIN	STANDARDS FOR											
	EXISTING HIGHER	BENEFICIAL USES	ck	uc			itact	pal	al	1)	10	စ	
	QUALITY		Livestock	X Irrigation	Aquatic	X Contact	Noncontact	Municipal	X Industrial	Wildlite	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X	X	X	X	X			
Aquatic Life Species	of Concern				1			1	1	ı		1	1
Temperature - °C		S.V. May-Oct < 21											
		S.V. Nov-Apr < 7			*	X							
ΔT <sup>b</sup> - °C	$\Delta T = 0$	ΔT < 1											
pH - SU	ΔpH ±0.5	S.V. 6.5 - 9.0			*	X		X					
Total Phosphorus	S.V. [←] ≤ 0.05	S.V. [←] ≤ 0.1			*	*	X	X					
(as P) - mg/l	5. 7. [4] 2 0.03	5.7. [4] 2 0.1					Λ	Λ					
Nitrogen Species	Nitrota C.V. [2] 2 1 0	Nitrate S.V. [←] ≤ 10			*	X	X	*					
(as N) - mg/l	Nitrate S.V.	Nitrite S.V. $\leq 0.06$				A	A						
Total Ammonia		c			*								
(as N) - mg/l													
Dissolved		S.V. [►] ≥ 6.0	X		*	X	X	X		X			
Oxygen - mg/l		5.7.[-] 2 0.0	24				24	24		71			
Suspended		S.V. [←] ≤ 25			*			X					
Solids - mg/l		5.11[12 25											
Turbidity - NTU		S.V. [←] ≤ 10			*			X					
Total Dissolved	S.V. [≤] ≤ 65	S.V. [←] ≤ 500	X	X				*					
Solids - mg/l	5. v. <del>[-]</del> ≤ 05	5. v. <del>[-]</del> ≤ 300	Λ	Λ									
Chlorides - mg/l	S.V. [←] ≤ 7.0	S.V. [←] ≤ 250	X	X				*		X			
Sulfate - mg/l		S.V. ≤ 250						*					
Alkalinity	1	< 25% change from natural			*					X			
(as CO <sub>3</sub> ) - mg/l		conditions								Λ			
E coli - No./100 ml		AGM ≤ 126				*	X						
		S.V. ≤ 410					A						

	REQUIREMENTS	WATER QUALITY				В	ene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN  EXISTING HIGHER  QUALITY	STANDARDS FOR BENEFICIAL USES	Ivestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	rsh
Fecal Coliform - No./100 ml	S.V. [←] ≤ 10	$\frac{[<200/400^{d}]}{S.V. \le 1,000}$	* LIV	ili <del>[X]</del> *	Αqι		ō X	X	Indi	= <del>[X]</del> *	-	Ent	Marsh
Color - PCU		$\frac{f^{\circ}}{S.V.} \leq 75$						*					

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and section 26 of this regulation for beneficial use terminology.
- 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.
- <sup>c</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.
- [d]—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.
- e—Increase in color must not be more than 10 color units above natural conditions.]
  - **Sec. 13.** Section 33 of LCB File No. R160-06 is hereby amended to read as follows:
  - Sec. 33. The limits of this table apply to the body of water known as the Jarbidge River [for the control point downstream from Jarbidge at bridge.] from the bridge above the town of Jarbidge to the Nevada-Idaho state line. This segment of the Jarbidge River is located in Elko County.

#### STANDARDS OF WATER QUALITY

Jarbidge River, below Jarbidge

PARAMETER	REQUIREMENTS	WATER QUALITY	Beneficial Use <sup>a</sup>

TOMADITADI	GTANDARDG FOR	1			T			1	1	1	I	т—
10 MAINTAIN	STANDARDS FOR											
EXISTING HIGHER	BENEFICIAL USES	CK	on	ပ		ntact	pal	ıaı	e,	CIC	8	
QUALITY		ıvest	пдап	quati	ontac	onco	funici	ıansı	/ildli	estne	nhanc	Marsn
		X	X	<u>∢</u> X	X	X	X	X	X	< _	刊	<u>N</u>
of Concern					I		ı		1	1	<u> </u>	
	S.V. May-Oct < 21											
	S.V. Nov-Apr < 7			*	X							
$\Delta T = 0$	$\Delta T < 1$											
ΔpH ±0.5	S.V. 6.5 - 9.0			*	X		X					
	277.5.2.04											
S.V. [←] ≤ 0.05	S.V. <del>[&lt;]</del> ≤ 0.1			*	*	X	X					
Nitrate S.V. $\leq 1.0$	Nitrate S.V. [←] ≤ 10											
	Nitrite S.V. $\leq 0.06$			*	X	X	*					
	c			*								
				*								
	CV [5] > (0	v		*	v	v	v		v			
	S.V. [2] 20.0	X		r	X	X	Х		X			
	0.11.5.4 < 0.5			4			37					
	S.V. <del>[4]</del> ≤ 25			*			X					
	S.V. [←] ≤ 10			*			X					
S.V. [4] ≤ 80	S.V. [←] ≤ 500	X	X				*					
S.V. [←] ≤ 7.0	S.V. [←] ≤ 250	X	X				*		X			T
	<i>S.V.</i> ≤ 250						*					T
	< 25% change from natural			4-					37			
	conditions			*					X			
	AGM ≤ 126	†			.1.	**		t		1		
	S.V.≤ 410				ボ	X						
	OUALITY  of Concern $\Delta T = 0$ $\Delta pH \pm 0.5$ S.V. $\{ \} \le 0.05$ Nitrate S.V. $\{ \} \le 1.0$ S.V. $\{ \} \le 80$	EXISTING HIGHER QUALITY       BENEFICIAL USES         S.V. May-Oct < 21	EXISTING HIGHER QUALITY   BENEFICIAL USES   X  of Concern  S.V. May-Oct < 21 S.V. Nov-Apr < 7 AT = 0 AT < 1  ApH ±0.5 S.V. 6.5 - 9.0  S.V. $\[ \] \le 0.05$ S.V. $\[ \] \le 0.1$ Nitrate S.V. $\[ \] \le 0.06$ c  S.V. $\[ \] \ge 6.0$ X  S.V. $\[ \] \ge 6.0$ X  S.V. $\[ \] \ge 6.0$ S.V. $\[ \] \le 25$ S.V. $\[ \] \le 25$ S.V. $\[ \] \le 500$ X  S.V. $\[ \] \le 500$ S.V. $\[ \] \le 500$ S.V. $\[ \] \le 250$ S.V. $\[ \] \ge 250$ S.V. $\[$	EXISTING HIGHER QUALITY    S.V. May-Oct < 21   S.V. Nov-Apr < 7     ΔT = 0	EXISTING HIGHER QUALITY    Second Part of Concern   S.V. May-Oct < 21   S.V. Nov-Apr < 7   AT = 0   AT < 1   AT < 1   AT < 1   AT	EXISTING HIGHER QUALITY         BENEFICIAL USES         Description of page 1         Image 2         Image 2 </td <td>EXISTING HIGHER QUALITY  BENEFICIAL USES  <math>0000000000000000000000000000000000</math></td> <td>EXISTING HIGHER QUALITY    Solution   Part of the par</td> <td>EXISTING HIGHER QUALITY    BENEFICIAL USES   Solution   Solution</td> <td>EXISTING HIGHER QUALITY    Solution   Part of the par</td> <td>EXISTING HIGHER QUALITY    A</td> <td>EXISTING HIGHER QUALITY    Second   Se</td>	EXISTING HIGHER QUALITY  BENEFICIAL USES $0000000000000000000000000000000000$	EXISTING HIGHER QUALITY    Solution   Part of the par	EXISTING HIGHER QUALITY    BENEFICIAL USES   Solution   Solution	EXISTING HIGHER QUALITY    Solution   Part of the par	EXISTING HIGHER QUALITY    A	EXISTING HIGHER QUALITY    Second   Se

	REQUIREMENTS	WATER QUALITY				F	3en	eficia	ıl U:	se <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER	STANDARDS FOR BENEFICIAL USES	vestock	non	tic	101	Noncontact	cipal	шаі	ife	eric	ıce	1
	QUALITY	4	Lives	+	-Aquatic	Contact	Nonc	Municipal	ındustriai	Wildlife	Aesmenc	Enhance	Marsn
Fecal Coliform -		<del>[&lt; 200/400 <sup>d</sup></del> ]	*	<del>[X]</del>		<del>[*]</del>	X	X		<del>[X]</del>			
No./100 ml		$S.V. \leq 1,000$		*						*			
Color - PCU		<del>[e]</del>						*					
		$S.V. \leq 75$											

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and section 26 of this regulation for beneficial use terminology.
- 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.
- <sup>c</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.
- [d]—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.
- <sup>e</sup>— Increase in color must not be more than 10 color units above natural conditions.]
  - Sec. 14. Section 34 of LCB File No. R160-06 is hereby amended to read as follows:
  - Sec. 34. The limits of this table apply to the body of water known as the [West Fork] Bruneau River [for the control point at Diamond "A" Road.] from its origin to the Nevada-Idaho state line. The [West Fork] Bruneau River is located in Elko County.

#### STANDARDS OF WATER QUALITY

[West Fork] Bruneau River

PARAMETER	REQUIREMENTS	WATER QUALITY	Beneficial Use <sup>a</sup>

	TO MAINTAIN	STANDARDS FOR						T	T				
	EXISTING HIGHER	BENEFICIAL USES	¥	1			act	al	_		ပ		
	QUALITY		Livestock	X Irrigation	Aquatic	Contact	Noncontact	Municipal	Industria	Wildlite	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X	X	X	X	X	Ì	,	,
Aquatic Life Species	of Concern				1						1	1	
Temperature - °C		S.V. May-Oct < 21											
		S.V. Nov-Apr < 7			*	X							
ΔT <sup>b</sup> - °C	$\Delta T = 0$	ΔT < 1											
pH - SU	ΔpH ±0.5	S.V. 6.5 - 9.0			*	X		X					
Total Phosphorus		S.V. [←] ≤ 0.1			*	*	X	X					
(as P) - mg/l		5.7.[ ] 5.1					71	1					
Nitrogen Species	Nitrata C.V. [c] < 1.0	Nitrate S.V. $[<] \le 10$			*	X	X	*					
(as N) - mg/l	Nitrate S.V.	Nitrite S.V.				A	Λ						
Total Ammonia		с			*								
(as N) - mg/l													
Dissolved Oxygen -		S.V. [►] ≥6.0	X		*	X	X	X		X			
mg/l		3. v. [-] ≥ 0.0	Λ			Λ	Λ	Λ		Λ			
Suspended		S.V. [←] ≤ 25			*			X					
Solids - mg/l		3. V. [-] 2 23						Λ					
Turbidity - NTU		S.V. [←] ≤ 10			*			X					
Total Dissolved	G.V. F.J. c. 100	C.V. F.d. < 500	37	37				*					
Solids - mg/l	S.V. [←] ≤ 180	S.V. [←] ≤ 500	X	X				ľ					
Chlorides - mg/l	S.V. [←] ≤ 7.0	S.V. [←] ≤ 250	X	X				*		X			
Sulfate - mg/l		S.V. ≤ 250						*					
Alkalinity		< 25% change from natural			*					X			
(as CO <sub>3</sub> ) - mg/l		conditions								Λ			
E coli - No./100 ml		AGM ≤ 126				*	X						
		S.V. ≤ 410					21						
Fecal Coliform -	S.V. [←] ≤ 80	[< 200/400 <sup>d</sup> ]	*	<del>[X]</del>		<del>[*]</del>	X	X		<del>[X]</del>			

	REQUIREMENTS	WATER QUALITY				I	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	Ivestock	Irrigation	Aquatic	ontact	Noncontact	Municipal	Industrial	Wildlite	Aesthetic	Enhance	Marsh
No./100 ml		S.V. ≤ 1,000	H	*	V.		<u> </u>	2		*	A	П	2
Color - PCU		(e) S.V. ≤ 75						*					

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and section 26 of this regulation for beneficial use terminology.
- 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.
- <sup>c</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.
- [d]—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.
- e Increase in color must not be more than 10 color units above natural conditions.
  - **Sec. 15.** Section 35 of LCB File No. R160-06 is hereby amended to read as follows:
  - Sec. 35. The limits of this table apply to the body of water known as the **[East Fork of the]** Owyhee River **[above]** *from Wildhorse Reservoir to its confluence with* Mill Creek. This segment of the **[East Fork of the]** Owyhee River is located in Elko County.

#### STANDARDS OF WATER QUALITY

Owyhee River, [East Fork] above Mill Creek

	REQUIREMENTS	WATER QUALITY	Beneficial Use <sup>a</sup>
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock Irrigation Aquatic Contact Noncontact Municipal Industrial Wildlife Aesthetic Enhance

	REQUIREMENTS	WATER QUALITY	Beneficial Use <sup>a</sup>											
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	X Irrigation	Aquatic	Contact	X Noncontact	X Municipal	X Industrial		Aesthetic	Enhance	Marsh	
Beneficial Uses			X	X	X	X	X	X	X	X				
Aquatic Life Species of	of Concern						1	-1		1		1		
Temperature - °C		S.V. May-Oct < 21												
		S.V. Nov-Apr $< 7$			*	X								
ΔT <sup>b</sup> - °C	$\Delta T = 0$	$\Delta T < 1$												
pH - SU	ΔpH ±0.5	S.V. 6.5 - 9.0			*	X		X						
Total Phosphorus		CV [-] 01			*	*	X	X						
(as P) - mg/l		S.V.					Λ	Λ						
Nitrogen Species	Nitrate S.V.	Nitrate S.V. $\leq 10$			*	X	X	*						
(as N) - mg/l	Nitiate 5. V. [7] \( \) 1.0	Nitrite S.V.				Λ	Λ							
Total Ammonia		c			*									
(as N) - mg/l														
Dissolved Oxygen -		S.V. [►] ≥ 6.0	X		*	X	X	X		X				
mg/l		5.7.615 0.0				21		1						
Suspended Solids -		S.V. [←] ≤ 25			*			X						
mg/l		3. V. [4] \$ 23						Λ						
Turbidity - NTU		S.V. [←] ≤ 10			*			X						
Total Dissolved	S.V. [←] ≤ 200	S.V. [←] ≤ 500	X	X				*						
Solids - mg/l	5. V. [7] \( \) 200	5. V. [ <del>-]</del> ≤ 300	A	Λ										
Chlorides - mg/l	S.V. [←] ≤ 8.0	S.V. [←] ≤ 250	X	X				*		X				
Sulfate - mg/l		$S.V. \leq 250$						*						
Alkalinity		< 25% change from natural			*					v				
(as CO <sub>3</sub> ) - mg/l		conditions								X				
E coli - No./100 ml		AGM ≤ 126				*	X							
		S.V. ≤ 410					A							

	REQUIREMENTS	WATER QUALITY				В	ene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	Jivestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Fecal Coliform -		[< 200/400- <sup>d</sup> ]		= <del>[X]</del>	V.					> <del>[X]</del>	-	피	N
No./100 ml		S.V. ≤ 1,000	*	*		<del>[*]</del>	X	X		*			
Color - PCU		<del>[e]</del>						*					
		$S.V. \leq 75$											

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and section 26 of this regulation for beneficial use terminology.
- 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.
- <sup>c</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.
- [d]—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.
- <sup>e</sup>—Increase in color must not be more than 10 color units above natural conditions.]
  - **Sec. 16.** Section 36 of LCB File No. R160-06 is hereby amended to read as follows:
  - Sec. 36. The limits of this table apply to the body of water known as the [East Fork of the] Owyhee River [at New China Dam.] from its confluence with Mill Creek to the border of the Duck Valley Indian Reservation. This segment of the [East Fork of the] Owyhee River is located in Elko County.

#### STANDARDS OF WATER QUALITY

Owyhee River, [East Fork at New China Dam] below Mill Creek

PARAMETER	REQUIREMENTS	WATER QUALITY	Beneficial Use <sup>a</sup>

	TO MAINTAIN	STANDARDS FOR											
	EXISTING HIGHER	BENEFICIAL USES	ck	uc			itact	pal	al	13	10	e	
	QUALITY		Livestock	X Irrigation	Aquatic	X Contact	Noncontact	Municipal	X Industrial	Wildlite	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X	X	X	X	X			
Aquatic Life Species	of Concern				<u> </u>	<u> </u>	1		<u> </u>	1	Į.		ı
Temperature - °C		S.V. May-Oct < 21											
		S.V. Nov-Apr < 7			*	X							
ΔT <sup>b</sup> - °C	$\Delta T = 0$	$\Delta T \le 1$											
pH - SU	ΔpH ±0.5	S.V. 6.5 - 9.0			*	X		X					
Total Phosphorus		S.V. [←] ≤ 0.1			*	*	X	X					
(as P) - mg/l		5. 7. [4] 2 0.1					Λ	Λ					
Nitrogen Species	Nitrate S.V. $\leq 1.0$	Nitrate S.V. [←] ≤ 10			*	X	X	*					
(as N) - mg/l		Nitrite S.V.			ľ	Λ	Λ						
Total Ammonia		c			*								
(as N) - mg/l													
Dissolved Oxygen -		S.V. [►] ≥ 6.0	X		*	X	X	X		X			
mg/l		5. 7. [-] 2 0.0	24			7	71	24		71			
Suspended		S.V. [←] ≤ 25			*			X					
Solids - mg/l		5.1.[ ] = 25											
Turbidity - NTU		S.V. [←] ≤ 10			*			X					
Total Dissolved	S.V. [←] ≤ 250	S.V. [←] ≤ 500	X	X				*					
Solids - mg/l	5. V. <del>[2]</del> ≤ 230	5. V. [ <del>2]</del> ≥ 300	Λ	Λ									
Chlorides - mg/l	S.V. [←] ≤ 8.0	S.V. [←] ≤ 250	X	X				*		X			[
Sulfate - mg/l		S.V. ≤ 250						*					
Alkalinity		< 25% change from natural			*					X			
(as CO <sub>3</sub> ) - mg/l		conditions								Λ			
E coli - No./100 ml		AGM ≤ 126				*	X						
		S.V. ≤ 410					1						

	REQUIREMENTS	WATER QUALITY				В	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN	STANDARDS FOR											
	EXISTING HIGHER	BENEFICIAL USES	3CK	uo	၁	1,	ntact	ıpal	ıal	e	tic	e	
	QUALITY	BENEFICIAL OSES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlite	Aesthetic	Enhance	Marsh
Fecal Coliform -	S.V. ≤ 125	<del>[&lt; 200/400<sup>d</sup>]</del>	*	<del>[X]</del>		<del>[*]</del>	X	X		<del>[X]</del>			
No./100 ml	3. V. ≥ 123	$S.V. \leq 1,000$		*			Λ	Λ		*			
Color - PCU		<del>[°]</del>						*					
		$S.V. \leq 75$											

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and section 26 of this regulation for beneficial use terminology.
- 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.
- <sup>c</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.
- [d]—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.
- e—Increase in color must not be more than 10 color units above natural conditions.]
  - **Sec. 17.** Section 38 of LCB File No. R160-06 is hereby amended to read as follows:
  - Sec. 38. The limits of this table apply to the body of water known as the South Fork of the Owyhee River [at Petan Access Road.] from its origin to the Nevada-Idaho state line.

    The South Fork of the Owyhee River is located in Elko County.

#### STANDARDS OF WATER QUALITY

Owyhee River, South Fork [at Petan Access Road]

PARAMETER	REQUIREMENTS	WATER QUALITY	Beneficial Use <sup>a</sup>

	TO MAINTAIN	STANDARDS FOR											
	EXISTING HIGHER	BENEFICIAL USES	u				ıct		L				
	QUALITY		Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	ys.
	QUALITI				Aqu						Aes	Enh	Marsh
Beneficial Uses			X	X	X	X	X	X	X	X			
Aquatic Life Species o	of Concern					•		•					
Temperature - °C		S.V. May-Oct < 21											
		S.V. Nov-Apr < 13			*	X							
ΔT <sup>b</sup> - °C	$\Delta T = 0$	ΔT < 1											
pH - SU	ΔpH ±0.5	S.V. 6.5 - 9.0			*	X		X					
Total Phosphorus		S.V. [←] ≤ 0.1			*	*	X	X					
(as P) - mg/l		5. V. [-] ≤ 0.1					Λ	Λ					
Nitrogen Species	Nitrata C.V. Fel e 1.0	Nitrate S.V. $\leq 10$			*	37	37	*					
(as N) - mg/l	Nitrate S.V. $\leq 1.0$	Nitrite S.V. [←] ≤ 0.06				X	X	ľ					
Total Ammonia		c			*								
(as N) - mg/l													
Dissolved Oxygen -			.,			7.7	37	**		77			
mg/l		S.V. [≥] ≥ 6.0	X		*	X	X	X		X			
Suspended Solids -		CV 14 - 25			*			37					
mg/l		S.V. [←] ≤ 25						X					
Turbidity - NTU		S.V. [←] ≤ 10			*			X					
Total Dissolved	G.V. F. d. +200	G X 1 5 3 4 500	.,	77				*					
Solids - mg/l	S.V. [←] ≤ 280	S.V. [←] ≤ 500	X	X				r					
Chlorides - mg/l	S.V. [←] ≤ 15.0	S.V. [←] ≤ 250	X	X				*		X			
Sulfates - mg/l		S.V. ≤ 250						*					
Alkalinity		< 25% change from natural			*					X			
(as CO3) - mg/l		conditions								A			
E coli - No./100 ml		AGM ≤ 126				*	X						
		S.V. ≤ 410					Λ						
Fecal Coliform -		<del>[&lt; 200/400-<sup>d</sup>]</del>	*	<del>[X]</del>		<del>[*]</del>	X	X		<del>[X]</del>			

	REQUIREMENTS	WATER QUALITY				E	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	ıvestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
No./100 ml		S.V. ≤ 1,000		*	7					*	7		
Color - PCU		[*] S.V. ≤ 75						*					

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and section 26 of this regulation for beneficial use terminology.
- 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.
- <sup>c</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.
- [d]—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.
- e—Increase in color must not be more than 10 color units above natural conditions.]
  - **Sec. 18.** Section 37 of LCB File No. R160-06 is hereby repealed.

#### TEXT OF REPEALED SECTION

#### Section 37 of LCB File No. R160-06:

Sec. 37. The limits of this table apply to the body of water known as the East Fork of the Owyhee River at the Nevada-Idaho state line. This segment of the East Fork of the Owyhee River is located in Elko County.

# STANDARDS OF WATER QUALITY

# Owyhee River, East Fork at the state line

	REQUIREMENTS	WATER QUALITY				E	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X	X	X	X	X	7		
Aquatic Life Species of	of Concern				<u> </u>		1						.1
Temperature - °C		S.V. May-Oct < 21											
		S.V. Nov-Apr < 7			*	X							
ΔT <sup>b</sup> - °C	$\Delta T = 0$	ΔT < 1											
pH - SU	ΔpH ±0.5	S.V. 6.5 - 9.0			*	X		X					
Total Phosphorus (as P) - mg/l		S.V. < 0.1			*	*	X	X					
Nitrogen Species	Nitrate S.V. < 1.0	Nitrate S.V. < 10											
(as N) - mg/l		Nitrite S.V. < 0.06  Ammonia (unionized)  S.V. < 0.02			*	X	X	*					
Dissolved Oxygen - mg/l		S.V. > 6.0	X		*	X	X	X		X			
Suspended Solids - mg/l		S.V. < 25			*			X					
Turbidity - NTU		S.V. < 10			*			X					
Total Dissolved Solids - mg/l	S.V. < 240	S.V. < 500	X	X				*					
Chlorides – mg/l	S.V. < 11.0	S.V. < 250	X	X				*		X			

	REQUIREMENTS	WATER QUALITY				В	Bene	ficial	Use	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Alkalinity		< 25% change from natural			*					v			
(as CO3) - mg/l		conditions								X			
Fecal Coliform - No./100 ml		< 200/400 °		X		*	X	X		X			
Color - PCU		d						*					

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and section 26 of this regulation for beneficial use terminology.
- b 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.
- <sup>c</sup> 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.
- d Increase in color must not be more than 10 color units above natural conditions.

#### **Permanent Regulation - Filing Statement**

# Nevada Division of Environmental Protection **Bureaus of Water Quality Planning**

Legislative Review of Adopted Regulations as Required by Administrative Procedures Act, NRS 233B.066

### State Environmental Commission (SEC) LCB File No. R133-10 SEC # P2010-10

R133-10: Proposed Changes to Select Water Quality Standards for Nevada Waters in the Snake River Drainage Basin: The Nevada Division of Environmental Protection (NDEP) has completed a review of the water quality standards for the Nevada waterbodies in the Snake River Drainage Basin. These waters are located in Northern Elko County and consist of the following: South Fork Owyhee River; Owyhee River; Bruneau River; Jarbidge River; East Fork Jarbidge River; Salmon Falls Creek; Shoshone Creek; and Goose Creek.

Revisions to select water quality standards were adopted by the State Environmental Commission on October 5<sup>th</sup> 2010. The adopted revisions are based on U.S. EPA recommended criteria, maintaining consistency with standards for other Nevada waterbodies, and other recommendations and information.

The water quality standards for the above mentioned waterbodies are contained in the Nevada Administrative Code (NAC) 445A.214 - 225 (445A.1332-1362). NDEP also proposed and the SEC adopted four new tributary creeks located in the Snake River Drainage system to the Nevada water quality regulations.

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

This draft regulation is the result of many meetings and conversations with stakeholders prior to the public workshop. In the spring of 2010, the NDEP held three public workshops on the above referenced regulation on May 13, May 20 and May 21 respectively. The workshops were held in Carson City, Ely and Elko Nevada. All support documentation for this regulation is available on the SEC web site at http://www.sec.nv.gov/main/hearing\_1010.htm see agenda item #8.

Following the workshop, the State Environmental Commission (SEC) held a regulatory hearing on October 5<sup>th</sup> 2010. The hearing was held as a video conference in Carson City and Las Vegas. The hearing location in Carson City was the Bryan Building, 901 South Stewart Street (2nd floor, Tahoe Room). In Las Vegas the hearing was held at the Nevada Division of Environmental Protection, 2030 E. Flamingo Rd. Suite 230.

A public notice and agenda for the SEC regulatory hearing was posted at the meeting location, at the State Library in Carson City, and at the Offices of the Division of Environmental Protection

in Carson City and Las Vegas. Copies of the agenda, the public notice, and the proposed permanent regulation were also made available to all public libraries throughout the state as well as to individuals on the SEC electronic and ground-based mailing lists.

The public notice was also published in the Las Vegas Review Journal and Reno Gazette Journal newspapers once a week for three consecutive weeks prior to the above referenced SEC regulatory hearing. Other information about the regulation was also made available on the SEC website at: http://www.sec.nv.gov/main/hearing\_1010.htm

- 2. The number persons who attended the SEC Regulatory Hearing:
  - (a) Attended October 05, 2010 hearing; 20 (approx.)
  - (b) Testified on this Petition at the hearing: 1 (1 NDEP)
  - (c) Submitted to the agency written comments: 0
- 3. A description of how comment was solicited from affected businesses, a summary of their response, and an explanation of how other interested persons may obtain a copy of the summary.

This regulation does not directly impact any businesses.

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

Non substantive changes to the proposed regulation were requested at the Hearing; the SEC adopted the regulation with some minor changes. The revised regulation is being submitted to the Legislative Counsel Bureau with this information statement.

5. The estimated economic effect of the adopted regulation on the business which it is to regulate and on the public.

The regulation does not regulate any business. There is no economic impact from the amendments on regulated fleets.

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

There will be no additional cost to the Division of Environmental Protection for enforcement of the amendment.

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

This regulation does not duplicate any other federal, state or local regulation.

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

The regulation is not more stringent than any federal regulation or guidance.

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

No fees are generated by this regulation.