PROPOSED PERMANENT REGULATION OF THE

NEVADA STATE ENVIRONMENTAL COMMISSION

Explanation – Matter in Blue is ***new***; matter in bold red and strikeout ~~***omitted material***~~ is material to be omitted.

AUTHORITY: §§1-318, NRS 445A.425 and 445A.520.

A REGULATION relating to water quality; making various changes in provisions that establish standards for water quality; and providing other matters properly relating thereto.

SMOKE CREEK

Material to be omitted:

NAC 445A.180 (445A.1286). ~~Approximately 30 miles east of Susanville, California.~~

STANDARDS OF WATER QUALITY

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use										
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Beneficial Uses													
Aquatic Life Species of Concern													
Temperature - °C ~~ΔT[a] - °C~~		S.V. Summer ≤ 25.0 S.V. Winter ≤ 14.0 ~~ΔT ≤ 3~~											
pH - SU		~~Annual Median 7.0 - 8.0~~ S.V. 6.5 – ~~8.5~~											
~~Phosphates~~ (as ~~PO4~~) - mg/l		~~A Avg. ≤ 0.5~~ S.V. ≤ ~~0.7~~											
~~Nitrates~~ (as ~~NO3~~) - mg/l		S.V. ≤ ~~5.0~~											
Dissolved Oxygen - mg/l		~~Avg. Jun-Sep ≥ 8.0~~ S.V. ≥ ~~7.5~~											
~~BOD - mg/l~~		~~S.V. ≥ 5.0~~											
Turbidity - ~~JU~~		~~b~~											
Total Dissolved Solids - mg/l		~~A Avg. ≤ 225.0~~ S.V. ≤ ~~275.0~~											
Chloride~~s~~ - mg/l		S.V. ≤ ~~10~~											
Fecal Coliform - No./100 ml		~~c~~											
~~Color - PCU~~		~~d~~											

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[a] ~~Maximum allowable temperature increase above natural receiving water temperature.~~

[b] ~~Turbidity must not exceed that characteristic of natural conditions by more than 10 Jackson Units.~~

[c] ~~Fecal Coliform – The more stringent of the following apply:~~

~~The fecal coliform concentration must not exceed a geometric mean of 1000 per 100 milliliters nor may more than 20 percent of total samples exceed 2400 per 100 milliliters.~~

~~The annual geometric mean of fecal coliform concentration must not exceed that characteristic of natural conditions by more than 200 per 100 milliliters nor may the number of fecal coliform in a single sample exceed that characteristic of natural conditions by more than 400 per 100 milliliters.~~

[d] ~~Color must not exceed that characteristic of natural conditions by more than 10 units on the Platinum-Cobalt Scale.~~

Proposed changes:

NAC 445A.180 (445A.1286). The limits of this table apply to the body of water known as Smoke Creek from the Nevada State line to the Smoke Creek Desert. Smoke Creek is located in Washoe County.

STANDARDS OF WATER QUALITY

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use[a]										
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X	X			X			
Aquatic Life Species of Concern													
Temperature - °C		S.V. Summer ≤ 25.0 S.V. Winter ≤ 14.0			*	X							
pH - SU		S.V. 6.5 - 9	X	X	*	*				*			
Total Phosphorus (as P) - mg/l		[b]			*	*	X						
Nitrogen Species (as N) - mg/l		Nitrate S.V. ≤ 90	X		*					X			
		Nitrite S.V. ≤ 5	X		*					X			
		Total Nitrogen [b]			*	*							
Dissolved Oxygen - mg/l		S.V. ≥ 5.0	X		*	X	X			X			
Turbidity - NTU		S.V. ≤ 50			*								
Total Dissolved Solids - mg/l		S.V. ≤ 1000	X	*									
Chloride - mg/l		S.V. ≤ 1500	*							*			

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Fecal Coliform - No./100 ml		S.V. ≤ 1000	*	*			X			*			
E Coli - No./100 ml		AGM ≤ 126 S.V. ≤ 410				*	X						
Total Ammonia (as N) - mg/l		[c]			*								

* = The most restrictive beneficial use.

X = Beneficial use.

[a]Refer to NAC 445A.122 and section 11 of this regulation for beneficial use terminology.

[b]Waters shall be free from nutrient concentrations from other than natural source that cause the growth of algae or aquatic plants in amounts that interfere with any beneficial uses of the water.

[c]The ambient water quality criteria for ammonia are specified in NAC 445A.118.

BRONCO CREEK

Material to be omitted:

NAC 445A.181 (445A.1698). ~~At Hirschdale Road.~~

STANDARDS OF WATER QUALITY

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use										
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Beneficial Uses													
Aquatic Life Species of Concern													
Temperature - °C ~~ΔT[a] - °C~~		Avg. Jun-Sep ≤ 20.0 S.V. Summer ≤ 25.0 S.V. Winter ≤ 13.0 ~~ΔT ≤ 0~~											
pH - SU		~~Annual Median 7.0 - 8.5~~ S.V. 6.5 – ~~8.5~~											
~~Phosphates~~ (as ~~PO4~~) - mg/l		~~A Avg. ≤ 0.3~~ S.V. ≤ ~~0.4~~											
~~Nitrates~~ (as ~~NO3~~) - mg/l		S.V. ≤ ~~2.0~~											
Dissolved Oxygen - mg/l		~~Avg. Jun Sep ≥ 7.0~~ S.V. ≥ 6.0											
Turbidity - ~~JU~~		~~b~~											
Total Dissolved Solids - mg/l		~~A Avg. ≤ 225.0~~ S.V. ≤ ~~300.0~~											
Chloride~~s~~ - mg/l		S.V. ≤ ~~15~~											
Fecal Coliform - No./100 ml		~~c~~											
Color - PCU		~~d~~											

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[a] ~~Maximum allowable temperature increase above natural receiving water temperature.~~

[b] ~~Turbidity must not exceed that characteristic of natural conditions by more than 10 Jackson Units.~~

[c] ~~Fecal Coliform – The more stringent of the following apply:~~

~~The fecal coliform concentration must not exceed a geometric mean of 1000 per 100 milliliters nor may more than 20 percent of total samples exceed 2400 per 100 milliliters.~~

~~The annual geometric mean of fecal coliform concentration must not exceed that characteristic of natural conditions by more than 200 per 100 milliliters nor may the number of fecal coliform in a single sample exceed that characteristic of natural conditions by more than 400 per 100 milliliters.~~

[d] ~~Color must not exceed that characteristic of natural conditions by more than 10 units on the Platinum-Cobalt Scale.~~

Proposed changes:

NAC 445A.181 (445A.1698). The limits of this table apply to the body of water known as Bronco Creek from its origin to the Nevada State Line. Bronco Creek is located in Washoe County.

STANDARDS OF WATER QUALITY

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use[a]										
			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													
Temperature - °C		Avg. Jun-Sep ≤ 20.0 S.V. Summer ≤ 25.0 S.V. Winter ≤ 13.0			*	X							
pH - SU		S.V. 6.5 - 9	X	X	*	*		X	X	*			
Total Phosphorus (as P) - mg/l		[b]			*	*	X	X					
Nitrogen Species (as N) - mg/l		Nitrate S.V. ≤ 10	X					*		X			
		Nitrite S.V. ≤ 0.06	X		*			X		X			
		Total Nitrogen [b]			*	*							
Dissolved Oxygen - mg/l		S.V. ≥ 6.0	X		*	X	X	X		X			
Turbidity - NTU		S.V. ≤ 10			*								
Color - PCU		S.V. ≤ 75						*					
Total Dissolved Solids - mg/l		S.V. ≤ 500	X	X				*					
Chloride - mg/l		S.V. ≤ 250	X					*		X			
Sulfate - mg/l		S.V. ≤ 250						*					

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Fecal Coliform - No./100 ml		S.V. ≤ 1000	*	*			X	X		*			
E Coli - No./100 ml		AGM ≤ 126 S.V. ≤ 410				*	X						
Total Ammonia (as N) - mg/l		[c]			*								

* = The most restrictive beneficial use.

X = Beneficial use.

[a]Refer to NAC 445A.122 and section 121 of this regulation for beneficial use terminology.

[b]Waters shall be free from nutrient concentrations from other than natural source that cause the growth of algae or aquatic plants in amounts that interfere with any beneficial uses of the water

[c]The ambient water quality criteria for ammonia are specified in NAC 445A.118.

GRAY CREEK

Material to be omitted:

NAC 445A.182 (445A.1702). ~~At Hirschdale Road.~~

STANDARDS OF WATER QUALITY

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use										
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Beneficial Uses													
Aquatic Life Species of Concern													
Temperature - °C ~~ΔT[a] – °C~~		Avg. Jun-Sep ≤ 20.0 S.V. Summer ≤ 25.0 S.V. Winter ≤ 13.0 ~~ΔT ≤ 0~~											
pH - SU		~~Annual Median 7.0 - 8.5~~ S.V. 6.5 – ~~8.5~~											
~~Phosphates~~ (as ~~PO4~~) - mg/l		~~A Avg. ≤ 0.3~~ S.V. ≤ ~~0.4~~											
~~Nitrates~~ (as ~~NO3~~) - mg/l		S.V. ≤ ~~3.0~~											
Dissolved Oxygen - mg/l		~~Avg. Jun-Sep ≥ 8.0~~ S.V. ≥ ~~7.0~~											
Turbidity - ~~JU~~		~~b~~											
Total Dissolved Solids - mg/l		~~A Avg. ≤ 125.0~~ S.V. ≤ ~~165.0~~											
Chloride~~s~~ - mg/l		S.V. ≤ ~~10.0~~											
Fecal Coliform - No./100 ml		~~c~~											
Color - PCU		~~d~~											

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~~[a] Maximum allowable temperature increase above natural receiving water temperature.~~

~~[b] Turbidity must not exceed that characteristic of natural conditions by more than 10 Jackson Units.~~

~~[c] Fecal Coliform – The more stringent of the following apply:~~

~~The fecal coliform concentration must not exceed a geometric mean of 1000 per 100 milliliters nor may more than 20 percent of total samples exceed 2400 per 100 milliliters.~~

~~The annual geometric mean of fecal coliform concentration must not exceed that characteristic of natural conditions by more than 200 per 100 milliliters nor may the number of fecal coliform in a single sample exceed that characteristic of natural conditions by more than 400 per 100 milliliters.~~

~~[d] Color must not exceed that characteristic of natural conditions by more than 10 units on the Platinum-Cobalt Scale.~~

Proposed changes:

NAC 445A.182 (445A.1702). The limits of this table apply to the body of water known as Gray Creek from its origin to the Nevada State Line. Gray Creek is located in Washoe County.

STANDARDS OF WATER QUALITY

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use[a]										
			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													
Temperature - °C		Avg. Jun-Sep ≤ 20.0 S.V. Summer ≤ 25.0 S.V. Winter ≤ 13.0			*	X							
pH - SU		S.V. 6.5 - 9	X	X	*	*		X	X	*			
Total Phosphorus (as P) - mg/l		[b]			*	*	X	X					
Nitrogen Species (as N) - mg/l		Nitrate S.V. ≤ 10	X					*		X			
		Nitrite S.V. ≤ 0.06	X		*			X		X			
		Total Nitrogen [b]			*	*							
Dissolved Oxygen - mg/l		S.V. ≥ 6.0	X		*	X	X	X		X			
Turbidity - NTU		S.V. ≤ 10			*								
Color - PCU		S.V. ≤ 75						*					
Total Dissolved Solids - mg/l		S.V. ≤ 500	X	X				*					
Chloride - mg/l		S.V. ≤ 250	X					*		X			
Sulfate - mg/l		S.V. ≤ 250						*					

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Fecal Coliform - No./100 ml		S.V. ≤ 1000	*	*			X	X		*			
E Coli - No./100 ml		AGM ≤ 126 S.V. ≤ 410				*	X						
Total Ammonia (as N) - mg/l		[c]			*								

* = The most restrictive beneficial use.

X = Beneficial use.

[a]Refer to NAC 445A.122 and section 121 of this regulation for beneficial use terminology.

[b]Waters shall be free from nutrient concentrations from other than natural source that cause the growth of algae or aquatic plants in amounts that interfere with any beneficial uses of the water

[c]The ambient water quality criteria for ammonia are specified in NAC 445A.118.

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