

**COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
WATER QUALITY CONTROL COMMISSION**

5 CCR 1002-36

**REGULATION NO. 36
CLASSIFICATIONS AND NUMERIC STANDARDS
FOR
RIO GRANDE BASIN**

**APPENDIX 36-1
Stream Classifications and Water Quality Standards Tables**

Effective 06/30/2021

Abbreviations and Acronyms

Aq	=	Aquatic
°C	=	degrees Celsius
CL	=	cold lake temperature tier
CLL	=	cold large lake temperature tier
CS-I	=	cold stream temperature tier one
CS-II	=	cold stream temperature tier two
D.O.	=	dissolved oxygen
DM	=	daily maximum temperature
DUWS	=	direct use water supply
E. coli	=	<i>Escherichia coli</i>
EQ	=	existing quality
mg/L	=	milligrams per liter
mg/m ²	=	milligrams per square meter
mL	=	milliliter
MWAT	=	maximum weekly average temperature
OW	=	outstanding waters
SSE	=	site-specific equation
T	=	total recoverable
t	=	total
tr	=	trout
TVS	=	table value standard
µg/L	=	micrograms per liter
UP	=	use-protected
WS	=	water supply
WS-I	=	warm stream temperature tier one
WS-II	=	warm stream temperature tier two
WS-III	=	warm stream temperature tier three
WL	=	warm lake temperature tier

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Rio Grande Basin

3. Mainstem of North Clear Creek from the outlet of Continental Reservoir to a point immediately above the confluence with Rito Hondo Creek.							
CORGRG03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 2 Recreation E	Temperature °C	CS-II	CS-II	Arsenic	340	---
Qualifiers:			acute	chronic	Arsenic(T)	---	7.6
Fish Ingestion Standards Apply		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
*Uranium(acute) = See 36.5(3) for details.		pH	6.5 - 9.0	---	Chromium III(T)	---	100
*Uranium(chronic) = See 36.5(3) for details.		chlorophyll a (mg/m ²)	---	150	Chromium VI	TVS	TVS
		E. Coli (per 100 mL)	---	126	Copper	TVS	TVS
		Inorganic (mg/L)			Iron(T)	---	1000
			acute	chronic	Lead	TVS	TVS
		Ammonia	TVS	TVS	Manganese	TVS	TVS
		Boron	---	0.75	Mercury(T)	---	0.01
		Chloride	---	---	Molybdenum(T)	---	150
		Chlorine	0.019	0.011	Nickel	TVS	TVS
		Cyanide	0.005	---	Selenium	TVS	TVS
		Nitrate	100	---	Silver	TVS	TVS(tr)
		Nitrite	0.05	---	Uranium	varies*	varies*
		Phosphorus	---	0.11	Zinc	TVS	TVS
		Sulfate	---	---			
		Sulfide	---	0.002			
4a. Mainstem of the Rio Grande from a point immediately above the confluence with Willow Creek to a point immediately above the confluence with the South Fork Rio Grande.							
CORGRG04A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-II	CS-II	Arsenic	340	---
Qualifiers:			acute	chronic	Arsenic(T)	---	0.02
Other:		D.O. (mg/L)	---	6.0	Cadmium	TVS	varies*
Temporary Modification(s):		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		pH	6.5 - 9.0	---	Chromium III	---	TVS
Expiration Date of 12/31/2024		chlorophyll a (mg/m ²)	---	---	Chromium III(T)	50	---
*Cadmium(chronic) = See 36.6(4) for site-specific standards and assessment locations.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Manganese(chronic) = See 36.6(4) for site-specific standards and assessment locations.		Inorganic (mg/L)			Copper	TVS	TVS
*Uranium(acute) = See 36.5(3) for details.			acute	chronic	Iron	---	WS
*Uranium(chronic) = See 36.5(3) for details.		Ammonia	TVS	TVS	Iron(T)	---	1000
*Zinc(acute) = See 36.6(4) for site-specific standards and assessment locations.		Boron	---	0.75	Lead	TVS	TVS
*Zinc(chronic) = See 36.6(4) for site-specific standards and assessment locations.		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	varies*
		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	10	---	Molybdenum(T)	---	150
		Nitrite	0.05	---	Nickel	TVS	TVS
		Phosphorus	---	---	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	varies*	varies*

All metals are dissolved unless otherwise noted.
T = total recoverable
t = total
tr = trout

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

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Rio Grande Basin

6. Mainstem of West Willow Creek from immediately above Deerhorn Creek to the Park Regent Mine dump (37.890445, -106.936868). East Willow Creek from the confluence with Whited Creek to the confluence with West Willow Creek.

CORGRG06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Aq Life Cold 1		DM	MWAT		acute	chronic
Reviewable	Recreation E	Temperature °C	CS-I	CS-I	Arsenic	340	---
Qualifiers:			acute	chronic	Arsenic(T)	---	7.6
Other:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
*Uranium(acute) = See 36.5(3) for details.		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
*Uranium(chronic) = See 36.5(3) for details.		pH	6.5 - 9.0	---	Chromium VI	TVS	TVS
		chlorophyll a (mg/m ²)	---	150	Copper	TVS	TVS
		E. Coli (per 100 mL)	---	126	Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
			acute	chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	---	Molybdenum(T)	---	---
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)
		Nitrate	---	---	Uranium	varies*	varies*
		Nitrite	0.05	---	Zinc	TVS	TVS
		Phosphorus	---	0.11			
		Sulfate	---	---			
		Sulfide	---	0.002			

7. Mainstem of West Willow Creek from the Park Regent Mine dump (37.890445, -106.936868) to the confluence with East Willow Creek. Mainstem of Willow Creek, including all tributaries, from the confluence of East and West Willow Creeks to the confluence with the Rio Grande.

CORGRG07	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
Qualifiers:	Recreation E		acute	chronic	Arsenic(T)	---	100
Other:		D.O. (mg/L)	---	6.0	Cadmium	varies*	varies*
*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 36.5(4).		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
*Phosphorus(chronic) = applies only above the facilities listed at 36.5(4).		pH	6.5 - 9.0	---	Chromium III(T)	---	100
Cadmium(acute) = See 36.6(4) for site-specific standards and assessment locations.		chlorophyll a (mg/m ²)	---	150	Chromium VI	TVS	TVS
Cadmium(chronic) = See 36.6(4) for site-specific standards and assessment locations.		E. Coli (per 100 mL)	---	126	Copper	varies	varies*
*Copper(acute) = See 36.6(4) for site-specific standards and assessment locations.		Inorganic (mg/L)			Iron(T)	---	1000
Copper(chronic) = See 36.6(4) for site-specific standards and assessment locations.			acute	chronic	Lead	varies	varies*
Lead(acute) = See 36.6(4) for site-specific standards and assessment locations.		Ammonia	TVS	TVS	Manganese	varies	varies*
*Lead(chronic) = See 36.6(4) for site-specific standards and assessment locations.		Boron	---	0.75	Mercury(T)	---	0.01
*Manganese(acute) = See 36.6(4) for site-specific standards and assessment locations.		Chloride	---	---	Molybdenum(T)	---	150
*Manganese(chronic) = See 36.6(4) for site-specific standards and assessment locations.		Chlorine	0.019	0.011	Nickel	TVS	TVS
*Uranium(acute) = See 36.5(3) for details.		Cyanide	0.005	---	Selenium	TVS	TVS
*Uranium(chronic) = See 36.5(3) for details.		Nitrate	100	---	Silver	TVS	TVS
Zinc(acute) = See 36.6(4) for site-specific standards and assessment locations.		Nitrite	10	---	Uranium	varies	varies*
Zinc(chronic) = See 36.6(4) for site-specific standards and assessment locations.		Phosphorus	---	0.11	Zinc	varies*	varies*
		Sulfate	---	---			
		Sulfide	---	0.002			

All metals are dissolved unless otherwise noted.
 T = total recoverable
 t = total
 tr = trout

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 36.6 for further details on applied standards.

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS – FOOTNOTES

- (A) Whenever a range of standards is listed and referenced to this footnote, the first number in the range is a strictly health-based value, based on the Commission's established methodology for human health-based standards. The second number in the range is a maximum contaminant level, established under the federal Safe Drinking Water Act that has been determined to be an acceptable level of this chemical in public water supplies, taking treatability and laboratory detection limits into account. Control requirements, such as discharge permit effluent limitations, shall be established using the first number in the range as the ambient water quality target, provided that no effluent limitation shall require an "end-of-pipe" discharge level more restrictive than the second number in the range. Water bodies will be considered in attainment of this standard, and not included on the Section 303(d) List, so long as the existing ambient quality does not exceed the second number in the range.
- (B) Reserved.
- (C) For certain site-specific temperature standards, the temperature excursions listed in Table I - Footnote 5(c) of 31.16 do not apply. Assessment of ambient-based temperature standards should be conducted in a way that represents similar conditions to those under which the criteria were developed (i.e., air, low flow, and warming event excursions should not apply). Similarly, where site-specific adjustments to the winter shoulder season have been adopted, the winter shoulder season excursion does not apply.