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 9/30/2022

Abbreviations and Acronyms

Aquatic =

Aq °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 = Escherichia coli existing quality EQ mg/L milligrams per liter

 $mg/m^2 =$ milligrams per square meter

mĹ

MWAT = maximum weekly average temperature

OW outstanding waters SSE = site-specific equation total recoverable Т =

= total t trout tr

TVS = table value standard μg/L micrograms per liter ÜP = 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 Alamosa River/La Jara Creek/Conejos River Basins

	of La Jara Creek indiffillifilediately at	ove the confluence with Hot Creek	to the confluence	with the Ric	Grande.		
CORGAL12 Classifications		Physical and Bi	ological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	
	Water Supply		acute	chronic	Arsenic(T)		0.02
	Recreation E	D.O. (mg/L)		5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0		Cadmium(T)	5.0	
Water + Fish Standards Apply		chlorophyll a (mg/m2)		150*	Chromium III		TVS
Other:		E. Coli (per 100 mL)		126	Chromium III(T)	50	
Discharger Specific Variance(s):		Inorganic	(mg/L)		Chromium VI	TVS	TVS
Nitrate(acute) = See Section 36.6(6) for details			acute	chronic	Copper	TVS	TVS
on the variance for the Town of La Jara.		Ammonia	TVS	TVS	Iron		WS
Expiration Date of 12/31/2025 *chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 36.5(4). *Phosphorus(chronic) = applies only above the		Boron		0.75	Iron(T)		1000
		Chloride		250	Lead	TVS	TVS
		Chlorine	0.019	0.011	Lead(T)	50	
facilities listed at 36.5(4).		Cyanide	0.005		Manganese	TVS	TVS/WS
*Uranium(acute) = See 36.5(3) for details.		Nitrate	10		Manganese(T)		200
*Uranium(chronic) = See 36.5(3) for details.		Nitrite		0.05	Mercury(T)		0.01
		Phosphorus		0.03	Molybdenum(T)		150
		Sulfate		WS	Nickel	TVS	TVS
					Nickel(T)		100
		Sulfide		0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
13 Mainstem	of Hot Creek from the source to the co	onfluence with La Jara Creek			Zinc	TVS	TVS
CORGAL13		ormaorioo with La dara Ordon.					
CORGALIS	Classifications	Physical and Bi	ological			Metals (ug/L)	
		Physical and Bi		MWAT			chronic
	Classifications Agriculture Ag Life Cold 1	·	DM	MWAT CS-II	Arsenic	acute	chronic
Designation	Agriculture	Physical and Bi Temperature °C	DM CS-II	CS-II	Arsenic Arsenic(T)	acute 340	
Designation Reviewable	Agriculture Aq Life Cold 1	Temperature °C	DM	CS-II chronic	Arsenic(T)	acute 340 	0.02
Designation Reviewable	Agriculture Aq Life Cold 1 Recreation E	Temperature °C D.O. (mg/L)	DM CS-II acute	CS-II chronic 6.0	Arsenic(T) Cadmium	acute 340 TVS	0.02 TVS
Designation Reviewable Qualifiers:	Agriculture Aq Life Cold 1 Recreation E	Temperature °C D.O. (mg/L) D.O. (spawning)	DM CS-II acute 	CS-II chronic 6.0 7.0	Arsenic(T) Cadmium Cadmium(T)	acute 340 TVS 5.0	 0.02 TVS
Designation Reviewable Qualifiers: Other:	Agriculture Aq Life Cold 1 Recreation E Water Supply	Temperature °C D.O. (mg/L) D.O. (spawning) pH	DM CS-II acute 6.5 - 9.0	CS-II chronic 6.0 7.0	Arsenic(T) Cadmium Cadmium(T) Chromium III	acute 340 TVS 5.0	 0.02 TVS TVS
Designation Reviewable Qualifiers: Other: Temporary Mo	Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s):	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2)	DM CS-II acute 6.5 - 9.0	CS-II chronic 6.0 7.0 150*	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T)	acute 340 TVS 5.0 50	 0.02 TVS TVS
Designation Reviewable Qualifiers: Other: Temporary Mo Arsenic(chroni	Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid	Temperature °C D.O. (mg/L) D.O. (spawning) pH	DM CS-II acute 6.5 - 9.0	CS-II chronic 6.0 7.0	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI	acute 340 TVS 5.0 50 TVS	0.02 TVS TVS TVS
Designation Reviewable Qualifiers: Other: Temporary Mo Arsenic(chroni	Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s):	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL)	DM CS-II acute 6.5 - 9.0	CS-II chronic 6.0 7.0 150*	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	acute 340 TVS 5.0 50	0.02 TVS TVS TVS TVS
Designation Reviewable Qualifiers: Other: Temporary Moders Arsenic(chronic Expiration Date *chlorophyll a expiration of the chlorophyll a expiration of the c	Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 (mg/m²)(chronic) = applies only above	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL)	DM CS-II acute 6.5 - 9.0 	CS-II chronic 6.0 7.0 150* 126	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron	acute 340 TVS 5.0 50 TVS TVS	0.02 TVS TVS TVS TVS WS
Designation Reviewable Qualifiers: Other: Temporary Moders Arsenic (chroni Expiration Date the facilities list Phosphorus (chroni the facilities list)	Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 (mg/m²)(chronic) = applies only above ted at 36.5(4). chronic) = applies only above the	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorganic	DM CS-II acute 6.5 - 9.0 (mg/L)	CS-II chronic 6.0 7.0 150* 126	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T)	acute 340 TVS 5.0 50 TVS TVS	0.02 TVS TVS TVS TVS WS 1000
Designation Reviewable Qualifiers: Other: Temporary Moderic Arsenic (chronic Expiration Date the facilities list Phosphorus (cfacilities listed)	Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 (mg/m²)(chronic) = applies only above ited at 36.5(4). chronic) = applies only above the at 36.5(4).	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorganic Ammonia	DM CS-II acute 6.5 - 9.0 (mg/L) acute TVS	CS-II chronic 6.0 7.0 150* 126 chronic TVS	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead	acute 340 TVS 5.0 50 TVS TVS TVS	0.02 TVS TVS TVS TVS WS
Qualifiers: Other: Temporary Moders: Arsenic(chroning Expiration Date the facilities listed *Uranium(acut	Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 (mg/m²)(chronic) = applies only above ited at 36.5(4). chronic) = applies only above the at 36.5(4). ie) = See 36.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorganic Ammonia Boron	DM	CS-II chronic 6.0 7.0 150* 126 chronic TVS 0.75	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T)	acute 340 TVS 5.0 50 TVS TVS TVS TVS 50	0.02 TVS
Qualifiers: Other: Temporary Moders: Arsenic(chroning Expiration Date the facilities listed *Uranium(acut	Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 (mg/m²)(chronic) = applies only above ited at 36.5(4). chronic) = applies only above the at 36.5(4).	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride	DM CS-II acute 6.5 - 9.0 (mg/L) acute TVS	CS-II chronic 6.0 7.0 150* 126 chronic TVS 0.75 250	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS
Qualifiers: Other: Temporary Moders: Arsenic(chroning Expiration Date the facilities listed *Uranium(acut	Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 (mg/m²)(chronic) = applies only above ited at 36.5(4). chronic) = applies only above the at 36.5(4). ie) = See 36.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine	DM CS-II acute 6.5 - 9.0 (mg/L) acute TVS 0.019	CS-II chronic 6.0 7.0 150* 126 chronic TVS 0.75	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS TVS	0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01
Qualifiers: Other: Temporary Moders: Arsenic(chroning Expiration Date the facilities listed *Uranium(acut	Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 (mg/m²)(chronic) = applies only above ited at 36.5(4). chronic) = applies only above the at 36.5(4). ie) = See 36.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide	DM CS-II acute 6.5 - 9.0 (mg/L) acute TVS 0.019 0.005	CS-II chronic 6.0 7.0 150* 126 chronic TVS 0.75 250 0.011	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150
Qualifiers: Other: Temporary Moders: Arsenic(chroning Expiration Date the facilities listed *Uranium(acut	Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 (mg/m²)(chronic) = applies only above ited at 36.5(4). chronic) = applies only above the at 36.5(4). ie) = See 36.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate	DM CS-II acute 6.5 - 9.0 (mg/L) acute TVS 0.019	CS-II chronic 6.0 7.0 150* 126 chronic TVS 0.75 250 0.011	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS
Qualifiers: Other: Temporary Moders: Arsenic(chroning Expiration Date the facilities listed *Uranium(acut	Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 (mg/m²)(chronic) = applies only above ited at 36.5(4). chronic) = applies only above the at 36.5(4). ie) = See 36.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide	DM CS-II acute 6.5 - 9.0 (mg/L) acute TVS 0.019 0.005	CS-II chronic 6.0 7.0 150* 126 chronic TVS 0.75 250 0.011	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS 50 TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 1000
Qualifiers: Other: Temporary Moders: Arsenic(chroning Expiration Date the facilities listed *Uranium(acut	Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 (mg/m²)(chronic) = applies only above ited at 36.5(4). chronic) = applies only above the at 36.5(4). ie) = See 36.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate	DM CS-II acute 6.5 - 9.0 (mg/L) acute TVS 0.019 0.005 10	CS-II chronic 6.0 7.0 150* 126 Chronic TVS 0.75 250 0.011 0.05 0.11*	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS
Qualifiers: Other: Temporary Moders: Arsenic(chroning Expiration Date the facilities listed *Uranium(acut	Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 (mg/m²)(chronic) = applies only above ited at 36.5(4). chronic) = applies only above the at 36.5(4). ie) = See 36.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	DM CS-II acute 6.5 - 9.0 (mg/L) acute TVS 0.019 0.005 10	CS-II chronic 6.0 7.0 150* 126 Chronic TVS 0.75 250 0.011 0.05	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS 50 TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 1000
Qualifiers: Other: Temporary Moders: Arsenic(chroning Expiration Date the facilities listed *Uranium(acut	Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 (mg/m²)(chronic) = applies only above ited at 36.5(4). chronic) = applies only above the at 36.5(4). ie) = See 36.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	DM CS-II acute 6.5 - 9.0 (mg/L) acute TVS 0.019 0.005 10	CS-II chronic 6.0 7.0 150* 126 Chronic TVS 0.75 250 0.011 0.05 0.11*	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 100 TVS

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.