COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

WATER QUALITY CONTROL COMMISSION

5 CCR 1002-38

REGULATION NO. 38 CLASSIFICATIONS AND NUMERIC STANDARDS FOR SOUTH PLATTE RIVER BASIN, LARAMIE RIVER BASIN REPUBLICAN RIVER BASIN, SMOKY HILL RIVER BASIN

APPENDIX 38-1 Stream Classifications and Water Quality Standards Tables

Effective 02/14/2021

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Upper South Platte River Basin

ssifications iculture	<u></u> ,	not on national lores	t lands, exce	pt for listings in Segments	9 and 12.	
iculture	Physical and Biological			Metals (ug/L)		
		DM	MWAT		acute	chronic
Life Warm 2	Temperature °C	WS-I	WS-I	Arsenic	340	
ter Supply		acute	chronic	Arsenic(T)		0.02-10 ^A
creation E	D.O. (mg/L)		5.0	Cadmium	TVS	TVS
	рН	6.5 - 9.0		Cadmium(T)	5.0	
	chlorophyll a (mg/m ²)		150*	Chromium III		TVS
	E. Coli (per 100 mL)		126	Chromium III(T)	50	
*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).	Inorga	nic (mg/L)		Chromium VI	TVS	TVS
		acute	chronic	Copper	TVS	TVS
See 38.5(3) for details.	Ammonia	TVS	TVS	Iron		WS
= See 38.5(3) for details.	Boron		0.75	Iron(T)		1000
	Chloride		250	Lead	TVS	TVS
	Chlorine	0.019	0.011	Lead(T)	50	
	Cyanide	0.005		Manganese	TVS	TVS/WS
	Nitrate	10		Mercury(T)		0.01
	Nitrite		0.5	Molybdenum(T)		150
	Phosphorus		0.17*	Nickel	TVS	TVS
	Sulfate		WS	Nickel(T)		100
	Sulfide		0.002	Selenium	TVS	TVS
				Silver	TVS	TVS
				Uranium	varies*	varies*
				Zinc	TVS	TVS
arber Creek and Jackson Creek fro	om the boundary of National Fo	rest lands to the conf	luence with V	Vest Plum Creek; mainste	m of Bear Creek from	the outlet of
oir, a.k.a. Waucondah Reservoir, to						
ssifications	Physical and	-			Metals (ug/L)	
	T 1 10	DM	MWAT		acute	chronic
Reviewable Aq Life Warm 1 Recreation E Water Supply	Temperature °C	WS-I	WS-I	Arsenic	340	
		acute	chronic	Arsenic(T)		0.02
ter Supply	D.O. (mg/L)		5.0	Cadmium	TVS	TVS
ter Supply		05.00				
ter Supply	рН	6.5 - 9.0		Cadmium(T)	5.0	
ter Supply	pH chlorophyll a (mg/m²)		 150	Chromium III		TVS
ter Supply	рН			Chromium III Chromium III(T)	 50	
	pH chlorophyll a (mg/m²) E. Coli (per 100 mL)		 150	Chromium III Chromium III(T) Chromium VI	 50 TVS	 TVS
cation(s):	pH chlorophyll a (mg/m²) E. Coli (per 100 mL)		 150 126 chronic	Chromium III Chromium III(T) Chromium VI Copper	 50	TVS TVS
cation(s): hybrid 12/31/2024	pH chlorophyll a (mg/m²) E. Coli (per 100 mL)	 nic (mg/L)	 150 126	Chromium III Chromium III(T) Chromium VI Copper Iron	 50 TVS	TVS TVS WS
cation(s): hybrid	pH chlorophyll a (mg/m²) E. Coli (per 100 mL) Inorga	 nic (mg/L) acute	 150 126 chronic	Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T)	 50 TVS TVS 	TVS TVS WS 1000
cation(s): hybrid 12/31/2024 See 38.5(3) for details.	pH chlorophyll a (mg/m²) E. Coli (per 100 mL) Inorga Ammonia	 nic (mg/L) acute TVS	 150 126 chronic TVS	Chromium III Chromium III(T) Chromium VI Copper Iron	 50 TVS TVS 	TVS TVS WS
cation(s): hybrid 12/31/2024 See 38.5(3) for details.	pH chlorophyll a (mg/m²) E. Coli (per 100 mL) Inorga Ammonia Boron	 nic (mg/L) acute TVS 	 150 126 Chronic TVS 0.75	Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T)	 50 TVS TVS TVS 50	 TVS TVS WS 1000 TVS
cation(s): hybrid 12/31/2024 See 38.5(3) for details.	pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorga Ammonia Boron Chloride	 nic (mg/L) acute TVS 	 150 126 chronic TVS 0.75 250	Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	 50 TVS TVS TVS	 TVS TVS WS 1000 TVS
cation(s): hybrid 12/31/2024 See 38.5(3) for details.	pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorga Ammonia Boron Chloride Chlorine	 nic (mg/L) acute TVS 0.019	 150 126 chronic TVS 0.75 250 0.011	Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	 50 TVS TVS TVS 50	 TVS TVS WS 1000 TVS
cation(s): hybrid 12/31/2024 See 38.5(3) for details.	pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorga Ammonia Boron Chloride Chlorine Cyanide	 nic (mg/L) acute TVS 0.019 0.005	 150 126 Chronic TVS 0.75 250 0.011	Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	 50 TVS TVS TVS 50 TVS	 TVS TVS WS 1000 TVS TVS/WS
cation(s): hybrid 12/31/2024 See 38.5(3) for details.	pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorga Ammonia Boron Chloride Chlorine Cyanide Nitrate	 nic (mg/L) acute TVS 0.019 0.005 10	 150 126 chronic TVS 0.75 250 0.011 	Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	 50 TVS TVS TVS 50 TVS 	 TVS TVS WS 1000 TVS TVS/WS 0.01
cation(s): hybrid 12/31/2024 See 38.5(3) for details.	pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorga Ammonia Boron Chloride Chloride Chlorine Cyanide Nitrate Nitrite	 nic (mg/L) acute TVS 0.019 0.005 10	 150 126 chronic TVS 0.75 250 0.011 0.5	Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	 50 TVS TVS TVS 50 TVS 	 TVS TVS WS 1000 TVS TVS/WS 0.01 150
cation(s): hybrid 12/31/2024 See 38.5(3) for details.	pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorga Ammonia Boron Chloride Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	 nic (mg/L) acute TVS 0.019 0.005 10 	 150 126 chronic TVS 0.75 250 0.011 0.5 0.17	Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	 50 TVS TVS TVS 50 TVS TVS	 TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS
cation(s): hybrid 12/31/2024 See 38.5(3) for details.	pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorga Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	 nic (mg/L) acute TVS 0.019 0.005 10 	 150 126 Chronic TVS 0.75 250 0.011 0.5 0.17 WS	Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	 50 TVS TVS TVS 50 TVS TVS TVS	 TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 100
cation(s): hybrid 12/31/2024 See 38.5(3) for details.	pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorga Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	 nic (mg/L) acute TVS 0.019 0.005 10 	 150 126 Chronic TVS 0.75 250 0.011 0.5 0.17 WS	Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	 50 TVS TVS TVS 50 TVS TVS TVS	 TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 100 TVS
cation(s): hybrid 12/31/202 See 38.5	(3) for details.	24	pH 6.5 - 9.0 chlorophyll a (mg/m²) E. Coli (per 100 mL) Inorganic (mg/L) (3) for details. Boron	Image: chlorophyll a (mg/m²) 150 E. Coli (per 100 mL) 126 Inorganic (mg/L) 126 24 Anmonia TVS (3) for details. Boron 0.75	chlorophyll a (mg/m²) 150 Chromium III E. Coli (per 100 mL) 126 Chromium III(T) Inorganic (mg/L) Chromium VI Chromium VI 24 Ammonia TVS TVS (3) for details. Boron 0.75 Iron(T)	chlorophyll a (mg/m²) 150 Chromium III E. Coli (per 100 mL) 126 Chromium III(T) 50 Inorganic (mg/L) Chromium VI TVS 24 acute chronic Copper TVS (3) for details. Boron 0.75 Iron(T)

D.O. = dissolved oxygen DM = daily maximum MWAT = maximum weekly average temperature See 38.6 for further details on applied standards.