

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper South Platte River Basin

16h. Mainstem of West Toll Gate Creek, including all tributaries and wetlands, upstream of the confluence with East Toll Gate Creek. Mainstem of East Toll Gate Creek, including all tributaries and wetlands, upstream of the confluence with West Toll Gate Creek. Mainstem of Toll Gate Creek, downstream of the confluence of East and West Toll Gate Creeks, to the confluence with Sand Creek.

COSPUS16H	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 2 Recreation E	Temperature °C	WS-II	WS-II	Aluminum	---	---
Qualifiers:			acute	chronic			
Fish Ingestion Standards		D.O. (mg/L)	---	5.0	Arsenic	340	---
		pH	6.5 - 9.0	---	Arsenic(T)	---	7.6
Other:		chlorophyll a (mg/m2)	---	150*	Beryllium	---	---
		E. Coli (per 100 mL)	---	126	Cadmium	TVS	TVS
<p>*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Selenium(acute) = See section 38.6(4)(b) for selenium standards and assessment locations. *Selenium(chronic) = See section 38.6(4)(b) for selenium standards and assessment locations.</p>		Inorganic (mg/L)			Chromium III	TVS	TVS
			acute	chronic	Chromium III(T)	---	100
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	---	Iron(T)	---	1000
		Chlorine	0.019	0.011	Lead	TVS	TVS
		Cyanide	0.005	---	Manganese	TVS	TVS
		Nitrate	100	---	Mercury	---	0.01(t)
		Nitrite	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.17*	Nickel	TVS	TVS
		Sulfate	---	---	Selenium	varies*	varies*
		Sulfide	---	0.002	Silver	TVS	TVS
					Uranium	---	---
					Zinc	TVS	TVS

16i. Mainstem of Sand Creek from the confluence with Toll Gate Creek to the confluence with the South Platte River.

COSPUS16I	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 2 Recreation E	Temperature °C	WS-II	WS-II	Aluminum	---	---
Qualifiers:			acute	chronic			
Fish Ingestion Standards		D.O. (mg/L)	---	5.0	Arsenic	340	---
		pH	6.5 - 9.0	---	Arsenic(T)	---	7.6
Other:		chlorophyll a (mg/m2)	---	150*	Beryllium	---	---
		E. Coli (per 100 mL)	---	126	Cadmium	TVS	TVS
<p>Discharger Specific Variance(s): Selenium(acute) = TVS: no limit Selenium(chronic) = 9: 24 µg/L Expiration Date of 12/31/2023</p> <p>*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Mercury(chronic) = 0.026 below Brighton Blvd, see section 38.6(4)(f) for mercury assessment locations *Selenium(acute) = See section 38.6(4)(f) for selenium standards and assessment locations. *Selenium(chronic) = See section 38.6(4)(f) for selenium standards and assessment locations. *Variance: Selenium = see 38.6(6) for details.</p>		Inorganic (mg/L)			Chromium III	TVS	TVS
			acute	chronic	Chromium III(T)	---	100
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	---	Iron(T)	---	1000
		Chlorine	0.019	0.011	Lead	TVS	TVS
		Cyanide	0.005	---	Manganese	TVS	TVS
		Nitrate	10	---	Mercury	---	0.026(t)*
		Nitrite	---	0.5	Mercury	---	0.01(t)
		Phosphorus	---	0.17*	Molybdenum(T)	---	150
		Sulfate	---	---	Nickel	TVS	TVS
		Sulfide	---	0.002	Selenium	---	varies*
					Selenium	varies*	---
					Silver	TVS	TVS
					Uranium	---	---
					Zinc	TVS	TVS

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 38.6 for details on TVS, TVS(tr), WS, temperature standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Clear Creek Basin

14a. Mainstem of Clear Creek from the Farmers Highline Canal diversion in Golden, Colorado to the Denver Water conduit #16 crossing.							
COSPCL14A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Aluminum	---	---
	Recreation N		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02-10
Qualifiers:		pH	6.5 - 9.0	---	Beryllium	---	---
Other:		chlorophyll a (mg/m ²)	---	---	Cadmium	TVS	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	630	Cadmium(T)	5.0	---
temperature(DM/MWAT) = current condition		Inorganic (mg/L)			Chromium III	---	TVS
Expiration Date of 6/30/2019			acute	chronic	Chromium III(T)	50	---
*Zinc(acute) = TVS x (times) the FWER (final water effect ratio).		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
Expiration date of 12/31/20.		Boron	---	0.75	Copper	TVS	TVS
*Zinc(chronic) = TVS x (times) the FWER (final water effect ratio).		Chloride	---	250	Iron	---	WS
Expiration date of 12/31/20.		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	---	0.5	Manganese	TVS	244
		Phosphorus	---	---	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	---	---
					Zinc	TVSx1.57*	TVSx1.57*

14b. Mainstem of Clear Creek from the Denver Water conduit #16 crossing to a point just below Youngfield Street in Wheat Ridge, Colorado.							
COSPCL14B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
Qualifiers:		pH	6.5 - 9.0	---	Beryllium	---	---
Water + Fish Standards		chlorophyll a (mg/m ²)	---	---	Cadmium	TVS	TVS
Other:		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
Temporary Modification(s):		Inorganic (mg/L)			Chromium III	---	TVS
Arsenic(chronic) = hybrid			acute	chronic	Chromium III(T)	50	---
Expiration Date of 12/31/2021		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
temperature(DM/MWAT) = current condition		Boron	---	0.75	Copper	TVS	TVS
Expiration Date of 6/30/2019		Chloride	---	250	Iron	---	WS
*Zinc(acute) = TVS x (times) the FWER (final water effect ratio).		Chlorine	0.019	0.011	Iron(T)	---	1000
Expiration date of 12/31/20.		Cyanide	0.005	---	Lead	TVS	TVS
*Zinc(chronic) = TVS x (times) the FWER (final water effect ratio).		Nitrate	10	---	Lead(T)	50	---
Expiration date of 12/31/20.		Nitrite	---	0.5	Manganese	TVS	244
		Phosphorus	---	---	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	---	---
					Zinc	TVSx1.57*	TVSx1.57*

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T = total recoverable
t = total
tr = trout

D.O. = dissolved oxygen
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REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Big Thompson River Basin

2. Mainstem of the Big Thompson River, including all tributaries and wetlands from the boundary of Rocky Mountain National Park to the Home Supply Canal diversion, except for the specific listing in Segment 7; mainstem of Black Canyon Creek and Glacier Creek below Estes Park water treatment plant.							
COSPBT02	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	---	
	Recreation E	acute	chronic	Arsenic	340	---	
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	
Qualifiers:		D.O. (spawning)	---	7.0	Beryllium	---	
Other:		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150*	Cadmium(T)	5.0	
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	
Expiration Date of 12/31/2021		Inorganic (mg/L)			Chromium III(T)	50	---
		acute	chronic	Chromium VI	TVS	TVS	
*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 38.5(4).		Ammonia	TVS	TVS	Copper	---	
Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Boron	---	0.75	Copper	11	
*Copper(acute) = 11 ug/L from immediately above the Upper Thompson Sanitation District's wastewater treatment plant outfall to the Home Supply Canal Diversion.		Chloride	---	250	Copper	TVS	
*Copper(chronic) = 7.5 ug/L from immediately above the Upper Thompson Sanitation District's wastewater treatment plant outfall to the Home Supply Canal Diversion.		Chlorine	0.019	0.011	Iron	---	
		Cyanide	0.005	---	Iron(T)	---	
		Nitrate	10	---	Lead	TVS	
		Nitrite	---	0.05	Lead(T)	50	
		Phosphorus	---	0.11*	Manganese	TVS	
		Sulfate	---	WS	Mercury	---	
		Sulfide	---	0.002	Molybdenum(T)	---	
					Nickel	TVS	
					Nickel(T)	---	
					Selenium	TVS	
					Silver	TVS	
					Uranium	---	
					Zinc	TVS	

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.