

**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 12/31/2020

## Abbreviations and Acroynms

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 <sup>2</sup>	=	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 #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

1a. Mainstem of the South Platte River from the source of the South and Middle Forks to the inlet of Cheesman Reservoir.						
COSPUS01A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute      chronic		
Reviewable	Aq Life Cold 1	CS-I*	CS-I*	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
Water Supply  <b>Qualifiers:</b>  <b>Other:</b>  Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details. *Temperature = summer criteria apply from 4/1-10/31	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
	pH	6.5 - 9.0	---	Chromium III	---	TVS
	chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---
	E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
	Inorganic (mg/L)			Copper	TVS	TVS
	acute	chronic	Iron	---	WS	
	Ammonia	TVS	TVS	Iron(T)	---	1000
	Boron	---	0.75	Lead	TVS	TVS
	Chloride	---	250	Lead(T)	50	---
	Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
	Cyanide	0.005	---	Mercury(T)	---	0.01
	Nitrate	10	---	Molybdenum(T)	---	150
	Nitrite	---	0.05	Nickel	TVS	TVS
	Phosphorus	---	0.11*	Nickel(T)	---	100
Sulfate	---	WS	Selenium	TVS	TVS	
Sulfide	---	0.002	Silver	TVS	TVS(tr)	
			Uranium	varies*	varies*	
			Zinc	TVS	TVS	

  

1b. All tributaries to the South Platte River, including wetlands within the Lost Creek and Mt. Evans Wilderness Areas.						
COSPUS01B	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute      chronic		
OW	Aq Life Cold 1	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
Water Supply  <b>Qualifiers:</b>  <b>Other:</b>  *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
	pH	6.5 - 9.0	---	Chromium III	---	TVS
	chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
	E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
	Inorganic (mg/L)			Copper	TVS	TVS
	acute	chronic	Iron	---	WS	
	Ammonia	TVS	TVS	Iron(T)	---	1000
	Boron	---	0.75	Lead	TVS	TVS
	Chloride	---	250	Lead(T)	50	---
	Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
	Cyanide	0.005	---	Mercury(T)	---	0.01
	Nitrate	10	---	Molybdenum(T)	---	150
	Nitrite	---	0.05	Nickel	TVS	TVS
	Phosphorus	---	0.11	Nickel(T)	---	100
Sulfate	---	WS	Selenium	TVS	TVS	
Sulfide	---	0.002	Silver	TVS	TVS(tr)	
			Uranium	varies*	varies*	
			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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

2a. All tributaries to the South Platte River system, including all wetlands from the headwaters of the South and Middle Forks to a point immediately below the confluence with Tarryall Creek except for listings in Segment 1b, 2b and 2c.							
COSPUS02A	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT		acute	chronic	
Reviewable	Agriculture						
	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E				Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).		<b>Inorganic (mg/L)</b>			Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).			acute	chronic	Iron(T)	---	1000
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

  

2b. Mainstem of Mosquito Creek from Road #698 (39.270971, -106.098846) to its confluence with the Middle Fork of the South Platte River.							
COSPUS02B	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT		acute	chronic	
UP	Agriculture						
	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E				Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		<b>Inorganic (mg/L)</b>			Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	---	220

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 further details on applied standards.





# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

5b. Mainstem of Geneva Creek from the confluence with Scott Gomer Creek to the confluence with the North Fork of the South Platte River; all tributaries of Geneva Creek including wetlands from source to confluence with the North Fork of the South Platte River.

COSPUS05B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		<b>Inorganic (mg/L)</b>			Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

5c. Mainstem of Gooseberry Gulch and all tributaries from source to Sunset Trail.

COSPUS05C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation U		acute	chronic	Arsenic(T)	---	0.02-10 <sup>A</sup>
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS
*Uranium(acute) = See 38.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
*Uranium(chronic) = See 38.5(3) for details.					Chromium VI	TVS	TVS
		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
			acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
		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
					Uranium	varies*	varies*
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

5d. Mainstem of Gooseberry Gulch and all tributaries from Sunset Trail to confluence with Elk Creek.							
COSPUS05D	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 2 Recreation U Water Supply	DM	MWAT	acute	chronic		
Reviewable		Temperature °C	CS-II	CS-II	Arsenic	340	---
		acute	chronic	Arsenic(T)	---	0.02-10 <sup>A</sup>	
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
*Uranium(acute) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
		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	TVS	TVS
6a. Mainstem of the South Platte River from the outlet of Cheesman Reservoir to the inlet of Chatfield Reservoir.							
COSPUS06A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute	chronic		
Reviewable		Temperature °C	CS-II	CS-II	Arsenic	340	---
		acute	chronic	Arsenic(T)	---	0.02	
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Temporary Modification(s):		pH	6.5 - 9.0	---	Chromium III	---	TVS
Arsenic(chronic) = hybrid		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III(T)	50	---
Expiration Date of 12/31/2024		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
		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	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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

6b. Chatfield Reservoir								
COSPUS06B	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute		chronic		
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	varies*	varies*	Arsenic	340	---	
Qualifiers:	<p><b>Other:</b></p> <p>*chlorophyll a (ug/L)(chronic) = measured through samples that are representative of the mixed layer during July-Sept, with an allowable exceedance frequency of 1in 5 yrs. See section 38.6(4) for assessment thresholds.</p> <p>*Phosphorus(chronic) = See section 38.6(4) for assessment thresholds.</p> <p>*Uranium(acute) = See 38.5(3) for details.</p> <p>*Uranium(chronic) = See 38.5(3) for details.</p> <p>*Temperature = DM=CLL and MWAT=CLL from 1/1-3/31 DM=CLL and MWAT=23.5 from 4/1-12/31</p>		acute	chronic	Arsenic(T)	---	0.02	
		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (ug/L)	7/1 - 9/30	---	10*	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
		Inorganic (mg/L)			Copper	TVS	TVS	
		acute	chronic	Iron	---	WS		
		Ammonia	TVS	TVS	Iron(T)	---	1000	
		Boron	---	0.75	Lead	TVS	TVS	
		Chloride	---	250	Lead(T)	50	---	
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS	
		Cyanide	0.005	---	Mercury(T)	---	0.01	
		Nitrate	10	---	Molybdenum(T)	---	150	
		Nitrite	---	0.05	Nickel	TVS	TVS	
Phosphorus	---	0.03*	Nickel(T)	---	100			
Sulfate	---	WS	Selenium	TVS	TVS			
Sulfide	---	0.002	Silver	TVS	TVS(tr)			
			Uranium	varies*	varies*			
			Zinc	TVS	TVS			

7. All tributaries to the South Platte River, including all wetlands from a point immediately below the confluence with the North Fork of the South Platte River to the outlet of Chatfield Reservoir except for listings in Segments 8, 9, 10, 11, 12, and 13.

7. All tributaries to the South Platte River, including all wetlands from a point immediately below the confluence with the North Fork of the South Platte River to the outlet of Chatfield Reservoir except for listings in Segments 8, 9, 10, 11, 12, and 13.							
COSPUS07	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 2 Recreation E Water Supply	Temperature °C	CS-II	CS-II	Arsenic	340	---
Qualifiers:	<p><b>Other:</b></p> <p>*Uranium(acute) = See 38.5(3) for details.</p> <p>*Uranium(chronic) = See 38.5(3) for details.</p>		acute	chronic	Arsenic(T)	---	0.02-10 <sup>A</sup>
		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	10	---	Molybdenum(T)	---	150
		Nitrite	---	0.05	Nickel	TVS	TVS
Phosphorus	---	0.11	Nickel(T)	---	100		
Sulfate	---	WS	Selenium	TVS	TVS		
Sulfide	---	0.002	Silver	TVS	TVS(tr)		
			Uranium	varies*	varies*		
			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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

8. Mainstems of East and West Plum Creek from the source to the boundary of National Forest lands, including all tributaries and wetlands within the Plum Creek drainage which are on National Forest Lands, except for the listing in Segment 9.							
COSPUS08	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply		DM	MWAT		acute	chronic
Reviewable		acute	chronic	Arsenic	340	---	
		Temperature °C	CS-I	CS-I	Arsenic(T)	---	0.02
		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.					<b>Inorganic (mg/L)</b>		
*Uranium(chronic) = See 38.5(3) for details.						Iron	---
						Iron(T)	---
						Lead	TVS
						Lead(T)	50
						Manganese	TVS
							TVS/WS
						Mercury(T)	---
							0.01
						Molybdenum(T)	---
							150
						Nickel	TVS
							TVS
						Nickel(T)	---
							100
						Selenium	TVS
							TVS
						Silver	TVS
							TVS(tr)
						Uranium	varies*
							varies*
						Zinc	TVS
							TVS

  

9. Mainstem of Bear Creek, including all tributaries and wetlands from the source to the inlet of Perry Park Reservoir, a.k.a. Waucondah Reservoir (Douglas County).							
COSPUS09	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply		DM	MWAT		acute	chronic
Reviewable		acute	chronic	Arsenic	340	---	
		Temperature °C	CS-I	CS-I	Arsenic(T)	---	0.02
		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.					<b>Inorganic (mg/L)</b>		
*Uranium(chronic) = See 38.5(3) for details.						Iron	---
						Iron(T)	---
						Lead	TVS
						Lead(T)	50
						Manganese	TVS
							TVS/WS
						Mercury(T)	---
							0.01
						Molybdenum(T)	---
							150
						Nickel	TVS
							TVS
						Nickel(T)	---
							100
						Selenium	TVS
							TVS
						Silver	TVS
							TVS(tr)
						Uranium	varies*
							varies*
						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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

10. Mainstems of East Plum Creek, West Plum Creek, and Plum Creek from the boundary of National Forest lands to Chatfield Reservoir, mainstems of Stark Creek and Gove Creek from the boundary of National Forest lands to their confluence.

COSPUS10	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Warm 1 Recreation E Water Supply	DM	MWAT	acute		chronic	
Reviewable			WS-I	WS-I	Arsenic	340	---
		acute	chronic	Arsenic(T)	---	0.02	
		D.O. (mg/L)	5.0	Cadmium	TVS	TVS	
<b>Qualifiers:</b>		pH	6.5 - 9.0	Cadmium(T)	5.0	---	
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	150*	Chromium III	---	TVS	
Temporary Modification(s):		E. Coli (per 100 mL)	126	Chromium III(T)	50	---	
Arsenic(chronic) = hybrid		Inorganic (mg/L)		Chromium VI	TVS	TVS	
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS	TVS	
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).		Ammonia	TVS	Iron	---	WS	
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Boron	0.75	Iron(T)	---	1000	
*Uranium(acute) = See 38.5(3) for details.		Chloride	250	Lead	TVS	TVS	
*Uranium(chronic) = See 38.5(3) for details.		Chlorine	0.019	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	

11a. All tributaries to the East Plum Creek system, including all wetlands which are not on national forest lands.

COSPUS11A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture UP Aq Life Warm 2 Recreation E Water Supply	DM	MWAT	acute		chronic	
			WS-II	WS-II	Arsenic	340	---
		acute	chronic	Arsenic(T)	---	0.02-10 <sup>A</sup>	
		D.O. (mg/L)	5.0	Cadmium	TVS	TVS	
<b>Qualifiers:</b>		pH	6.5 - 9.0	Cadmium(T)	5.0	---	
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	150	Chromium III	---	TVS	
*Uranium(acute) = See 38.5(3) for details.		E. Coli (per 100 mL)	126	Chromium III(T)	50	---	
*Uranium(chronic) = See 38.5(3) for details.		Inorganic (mg/L)		Chromium VI	TVS	TVS	
		acute	chronic	Copper	TVS	TVS	
		Ammonia	TVS	Iron	---	WS	
		Boron	0.75	Iron(T)	---	1000	
		Chloride	250	Lead	TVS	TVS	
		Chlorine	0.019	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	

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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

11b. All tributaries to the West Plum Creek system, including all wetlands, which are not on national forest lands, except for listings in Segments 9 and 12.

COSPUS11B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Water Supply		acute	chronic	Arsenic(T)	---	0.02-10 <sup>A</sup>
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024			acute	chronic	Copper	TVS	TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).		Ammonia	TVS	TVS	Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Boron	---	0.75	Iron(T)	---	1000
*Uranium(acute) = See 38.5(3) for details.		Chloride	---	250	Lead	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.		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

12. Mainstem of Garber Creek and Jackson Creek from the boundary of National Forest lands to the confluence with West Plum Creek; mainstem of Bear Creek from the outlet of Perry Park Reservoir, a.k.a. Waucondah Reservoir, to the confluence with West Plum Creek.

COSPUS12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024			acute	chronic	Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = 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

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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

13. Mainstem of Deer Creek, including the North and South Forks, from the source to Chatfield Reservoir.										
COSPUS13	Classifications	Physical and Biological			Metals (ug/L)					
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute      chronic						
Reviewable		acute	chronic	Temperature °C	CS-II	CS-II	Arsenic	340	---	
		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02			
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS			
Other:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---			
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS			
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---			
		Inorganic (mg/L)			Chromium VI	TVS	TVS			
					Copper	TVS	TVS			
					Iron	---	WS			
					acute	chronic	Iron(T)	---	1000	
					Ammonia	TVS	TVS	Lead	TVS	TVS
					Boron	---	0.75	Lead(T)	50	---
					Chloride	---	250	Manganese	TVS	TVS/WS
					Chlorine	0.019	0.011	Mercury(T)	---	0.01
					Cyanide	0.005	---	Molybdenum(T)	---	150
					Nitrate	10	---	Nickel	TVS	TVS
					Nitrite	---	0.05	Nickel(T)	---	100
					Phosphorus	---	0.11	Selenium	TVS	TVS
					Sulfate	---	WS	Silver	TVS	TVS(tr)
			Sulfide	---	0.002	Uranium	varies*	varies*		
						Zinc	TVS	TVS		
14. Mainstem of the South Platte River from the outlet of Chatfield Reservoir to the Burlington Ditch diversion in Denver, Colorado.										
COSPUS14	Classifications	Physical and Biological			Metals (ug/L)					
Designation	Agriculture Aq Life Warm 1 Recreation E Water Supply	DM	MWAT	acute      chronic						
Reviewable		acute	chronic	Temperature °C	WS-I*	WS-I*	Arsenic	340	---	
		D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02			
Qualifiers:		pH	6.5 - 9.0	---	Cadmium	TVS	TVS			
Other:		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium(T)	5.0	---			
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *Copper(acute) = Copper BLM-based FMB Cu FMB(ac)=31.5 ug/l downstream of Marcy Gulch. *Copper(chronic) = Copper BLM-based FMB Cu FMB(ch)=20.8 ug/l downstream of Marcy Gulch. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details. *Temperature = summer criteria apply from 2/14 - 11/30		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS			
		Inorganic (mg/L)			Chromium III(T)	50	---			
					Chromium VI	TVS	TVS			
					Copper	---	TVS*			
					Ammonia	TVS	TVS	Copper	TVS*	---
					Boron	---	0.75	Iron	---	WS
					Chloride	---	250	Iron(T)	---	1000
					Chlorine	0.019	0.011	Lead	TVS	TVS
					Cyanide	0.005	---	Lead(T)	50	---
					Nitrate	10	---	Manganese	TVS	TVS/190
					Nitrite	---	0.5	Mercury(T)	---	0.01
					Phosphorus	---	---	Molybdenum(T)	---	150
					Sulfate	---	WS	Nickel	TVS	TVS
					Sulfide	---	0.002	Nickel(T)	---	100
								Selenium	TVS	TVS
						Silver	TVS	TVS		
						Uranium	varies*	varies*		
						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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

15. Mainstem of the South Platte River from the Burlington Ditch diversion in Denver, Colorado, to a point immediately below the confluence with Big Dry Creek.						
COSPUS15	Classifications	Physical and Biological		Metals (ug/L)		
Designation		DM	MWAT	acute	chronic	
UP	Agriculture Aq Life Warm 1 Recreation E Water Supply	Temperature °C	WS-I WS-I	Arsenic	340 ---	---
			<b>acute</b> <b>chronic</b>	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (mg/L)	varies* varies*	Cadmium	TVS	TVS
<b>Other:</b>		pH	6.0-9.0*	Cadmium(T)	5.0	---
Temporary Modification(s):		pH	6.5 - 9.0	Chromium III	---	TVS
Arsenic(chronic) = hybrid		chlorophyll a (mg/m <sup>2</sup> )	---	Chromium III(T)	50	---
Expiration Date of 12/31/2024		E. Coli (per 100 mL)	---	Chromium VI	TVS	TVS
temperature(DM/MWAT) = current condition*			126	Copper	---	TVS*
Expiration Date of 12/31/2021		<b>Inorganic (mg/L)</b>		Copper	TVS*	---
Discharger Specific Variance(s):					<b>acute</b> <b>chronic</b>	<b>acute</b> <b>chronic</b>
Selenium(acute) = TVS: no limit		Ammonia	TVS*	Iron	---	WS
Selenium(chronic) = TVS: 24 µg/L		Boron	---	Iron(T)	---	1000
Expiration Date of 12/31/2023		Chloride	---	Lead	TVS	TVS
*Ammonia(acute) = See section 38.6(4) for site-specific standards.		Chlorine	0.019	Lead(T)	50	---
*Ammonia(chronic) = See section 38.6(4) for site-specific standards.		Cyanide	0.005	Manganese	TVS	TVS/400
*Copper(acute) = Copper BLM-based FMB Cu FMB(ac)=26.4 ug/l		Nitrate	10	Mercury(T)	---	0.01
Downstream of the Metro Hite WWTF outfall.		Nitrite	1.0	Molybdenum(T)	---	150
*Copper(chronic) = Copper BLM-based FMB Cu FMB(ch)= 18.0 ug/l		Phosphorus	---	Nickel	TVS	TVS
Downstream of the Metro Hite WWTF outfall.		Sulfate	---	Nickel(T)	---	100
*Uranium(acute) = See 38.5(3) for details.		Sulfide	---	Selenium	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.			0.002	Silver	TVS	TVS
*D.O. (mg/L)(acute) = See section 38.6(4) for site-specific standards.				Uranium	varies*	varies*
*D.O. (mg/L)(chronic) = See section 38.6(4) for site-specific standards.				Zinc	TVS	TVS
*pH(acute) = 6.0 - 9.0 from 64th Ave. downstream 2 miles						
*TempMod: temperature = Adopted 6/8/2009						
*Variance: Selenium = see 38.6(6) for details.						

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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

16a. Mainstem of Sand Creek from the confluence of Murphy and Coal Creek in Arapahoe County to the confluence with the Toll Gate Creek.							
COSPUS16A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Water Supply		<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02-10 <sup>A</sup>
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS
*Uranium(acute) = See 38.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
*Uranium(chronic) = See 38.5(3) for details.			<b>Inorganic (mg/L)</b>		Chromium VI	TVS	TVS
			<b>acute</b>	<b>chronic</b>	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---	WS
		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	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

16b. Aurora Reservoir.						
COSPUS16B	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340 ---
	Recreation E		acute	chronic	Arsenic(T)	--- 0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS TVS
	DUWS	pH	6.5 - 9.0	---	Cadmium(T)	5.0 ---
<b>Qualifiers:</b>		chlorophyll a (ug/L)	---	---	Chromium III	--- TVS
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Chromium III(T)	50 ---
Temporary Modification(s):		<b>Inorganic (mg/L)</b>			Chromium VI	TVS TVS
Arsenic(chronic) = hybrid			acute	chronic	Copper	TVS TVS
Expiration Date of 12/31/2024		Ammonia	TVS	TVS	Iron	--- WS
*Uranium(acute) = See 38.5(3) for details.		Boron	---	0.75	Iron(T)	--- 1000
*Uranium(chronic) = See 38.5(3) for details.		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	---	---	Nickel	TVS TVS
		Sulfate	---	WS	Nickel(T)	--- 100
		Sulfide	---	0.002	Selenium	TVS TVS
					Silver	TVS TVS
					Uranium	varies* varies*
					Zinc	TVS TVS

16c. All tributaries to the South Platte River, including all wetlands, from the outlet of Chatfield Reservoir, to a point immediately below the confluence with Big Dry Creek, except for listings in the subbasins of the South Platte River, and in Segments 16a, 16d, 16e, 16f, 16g, 16h, 16i, 16j, and 16k.

16c. All tributaries to the South Platte River, including all wetlands, from the outlet of Chatfield Reservoir, to a point immediately below the confluence with Big Dry Creek, except for listings in the subbasins of the South Platte River, and in Segments 16a, 16d, 16e, 16f, 16g, 16h, 16i, 16j, and 16k.						
COSPUS16C	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute chronic		
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340 ---
	Recreation E		acute	chronic	Arsenic(T)	--- 100
<b>Qualifiers:</b>		D.O. (mg/L)	---	5.0	Cadmium	TVS TVS
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	TVS TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	--- 100
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS
*Uranium(acute) = See 38.5(3) for details.		<b>Inorganic (mg/L)</b>			Copper	TVS TVS
*Uranium(chronic) = See 38.5(3) for details.			acute	chronic	Iron(T)	--- 1000
		Ammonia	TVS	TVS	Lead	TVS TVS
		Boron	---	0.75	Manganese	TVS TVS
		Chloride	---	---	Mercury(T)	--- 0.01
		Chlorine	0.019	0.011	Molybdenum(T)	--- 150
		Cyanide	0.005	---	Nickel	TVS TVS
		Nitrate	100	---	Selenium	TVS TVS
		Nitrite	---	0.5	Silver	TVS TVS
		Phosphorus	---	0.17*	Uranium	varies* varies*
		Sulfate	---	---	Zinc	TVS TVS
		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 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

16d. Second Creek from the source to the O'Brian Canal at 39.898789, 104.817661.

COSPUS16D	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	100
<b>Qualifiers:</b>		D.O. (mg/L)	---	3.3*	Cadmium	TVS	TVS
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	---	100
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.			acute	chronic	Iron(T)	---	1000
*D.O. (mg/L)(chronic) = 15th percentile of D.O. measurements collected between 6:30 a.m. and 6:30 p.m.		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Manganese	TVS	TVS
		Chloride	---	---	Mercury(T)	---	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	100	---	Selenium	TVS	TVS
		Nitrite	---	0.5	Silver	TVS	TVS
		Phosphorus	---	0.17*	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

16e. Third Creek from the source to the O'Brian Canal at 39.917346, -104.784028.

COSPUS16E	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Water Supply		acute	chronic	Arsenic(T)	---	0.02-10 <sup>A</sup>
	Recreation E	D.O. (mg/L)	---	4.0*	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS
*Uranium(acute) = See 38.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
*Uranium(chronic) = See 38.5(3) for details.		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
*D.O. (mg/L)(chronic) = 15th percentile of D.O. measurements collected between 6:30 a.m. and 6:30 p.m.			acute	chronic	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---	WS
		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	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

16f. Barr Lake Tributary from the source to the Denver Hudson Canal at 39.941142, -104.748387.							
COSPUS16F	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Warm 2 Recreation E	DM	MWAT				
UP		acute	chronic	acute	chronic		
		Temperature °C	WS-III	WS-III	Arsenic	340 ---	
<b>Qualifiers:</b>		D.O. (mg/L)	---	narrative*	Arsenic(T)	--- 100	
<b>Other:</b>	*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details. *D.O. (mg/L)(chronic) = When water is present, D.O. concentrations shall be maintained at levels that protect classified uses.	pH	6.5 - 9.0	---	Chromium III	TVS TVS	
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	---	Chromium III(T)	--- 100
		E. Coli (per 100 mL)	---	126	---	Chromium VI	TVS TVS
		<b>Inorganic (mg/L)</b>			---	Copper	TVS TVS
			acute	chronic	---	Iron(T)	--- 1000
		Ammonia	TVS	TVS	---	Lead	TVS TVS
		Boron	---	0.75	---	Manganese	TVS TVS
		Chloride	---	---	---	Mercury(T)	--- 0.01
		Chlorine	0.019	0.011	---	Molybdenum(T)	--- 150
		Cyanide	0.005	---	---	Nickel	TVS TVS
		Nitrate	100	---	---	Selenium	TVS TVS
		Nitrite	---	0.5	---	Silver	TVS TVS
		Phosphorus	---	0.17*	---	Uranium	varies* varies*
		Sulfate	---	---	---	Zinc	TVS TVS
		Sulfide	---	0.002	---		

  

16g. Marcy Gulch, including all wetlands from the source to the confluence with the South Platte.							
COSPUS16G	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Warm 2 Recreation E	DM	MWAT				
UP		acute	chronic	acute	chronic		
		Temperature °C	WS-II	WS-II	Arsenic	340 ---	
<b>Qualifiers:</b>		D.O. (mg/L)	---	5.0	Arsenic(T)	--- 100	
<b>Other:</b>	Temporary Modification(s): temperature(MWAT) = current condition* Expiration Date of 12/31/2025 12/1 - 2/29 *Copper(acute) = Copper BLM-based FMB Cu FMB(ac)=67.1 ug/l below the Centennial WWTF. *Copper(chronic) = Copper BLM-based FMB Cu FMB(ch)=43.3 ug/l below the Centennial WWTF. *Selenium(acute) = See section 38.6(4)(b) for assessment locations. *Selenium(chronic) = See section 38.6(4)(b) for assessment locations. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details. *TempMod: temperature(12/1 - 2/29) = downstream of Centennial WWTF. Adopted 6/8/2009	pH	6.5 - 9.0	---	Chromium III	TVS TVS	
		chlorophyll a (mg/m <sup>2</sup> )	---	---	---	Chromium III(T)	--- 100
		E. Coli (per 100 mL)	---	126	---	Chromium VI	TVS TVS
		<b>Inorganic (mg/L)</b>			---	Copper	TVS* ---
			acute	chronic	---	Copper	--- TVS*
		Ammonia	TVS	TVS	---	Iron(T)	--- 1000
		Boron	---	0.75	---	Lead	TVS TVS
		Chloride	---	---	---	Manganese	TVS TVS
		Chlorine	0.019	0.011	---	Mercury(T)	--- 0.01
		Cyanide	0.005	---	---	Molybdenum(T)	--- 150
		Nitrate	100	---	---	Nickel	TVS TVS
		Nitrite	---	0.5	---	Selenium	21* 13*
		Phosphorus	---	---	---	Silver	TVS TVS
		Sulfate	---	---	---	Uranium	varies* varies*
		Sulfide	---	0.002	---	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 further details on applied standards.

# 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	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	7.6
<b>Qualifiers:</b>		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Fish Ingestion Standards</b>		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	---	100
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Manganese	TVS	TVS
		Chloride	---	---	Mercury(T)	---	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	100	---	Selenium	varies*	varies*
		Nitrite	---	0.5	Silver	TVS	TVS
		Phosphorus	---	0.17*	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

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 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	7.6
<b>Qualifiers:</b>		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	---	100
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Manganese	TVS	TVS
		Chloride	---	---	Mercury(T)	---	0.01
		Chlorine	0.019	0.011	Mercury(T)	---	0.026*
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	100	---	Nickel	TVS	TVS
		Nitrite	---	0.5	Selenium	---	varies*
		Phosphorus	---	0.17*	Selenium	varies*	---
		Sulfate	---	---	Silver	TVS	TVS
		Sulfide	---	0.002	Uranium	varies*	varies*
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

16j. Lee Gulch, Little's Creek, Big Dry Creek (Douglas and Arapahoe Counties), and Little Dry Creek, including all wetlands from the source to the confluence with the South Platte.							
COSPUS16J	Classifications	Physical and Biological		Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Warm 2	WS-II	WS-II	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02-10 <sup>A</sup>	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III	---	TVS
*chlorophyll a (mg/m <sup>2</sup> )(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)(h) for selenium standards and assessment locations. *Selenium(chronic) = See section 38.6(4)(h) for selenium standards and assessment locations. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
		Inorganic (mg/L)		Chromium VI	TVS	TVS	
		acute	chronic	Copper	TVS	TVS	
		Ammonia	TVS	TVS	Iron	---	WS
		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	varies*	varies*
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
		16k. Mainstem of Lakewood Gulch from the source to the confluence with the South Platte.					
COSPUS16K	Classifications	Physical and Biological		Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	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
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III	---	TVS
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
		Inorganic (mg/L)		Chromium VI	TVS	TVS	
		acute	chronic	Copper	TVS	TVS	
		Ammonia	TVS	TVS	Iron	---	WS
		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

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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

17a. Washington Park Lakes, City Park Lakes, Rocky Mountain Lake, Berkely Lake.							
COSPUS17A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1 Recreation E	Temperature °C	WL	WL	Arsenic	340	---
Qualifiers:		D.O. (mg/L)	---	5.0	Arsenic(T)	---	7.6
Other:		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (ug/L)	---	---	Chromium III	TVS	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	---	100
		Inorganic (mg/L)			Chromium VI	TVS	TVS
		Ammonia	acute	chronic	Copper	TVS	TVS
		TVS	TVS	---	Iron(T)	---	1000
		---	0.75	---	Lead	TVS	TVS
		---	---	---	Manganese	TVS	TVS
		0.019	0.011	---	Mercury(T)	---	0.01
		0.005	---	---	Molybdenum(T)	---	150
		100	---	---	Nickel	TVS	TVS
		---	0.5	---	Selenium	TVS	TVS
		---	---	---	Silver	TVS	TVS
		---	---	---	Uranium	varies*	varies*
		---	---	---	Zinc	TVS	TVS
		---	0.002	---			

  

17b. Sloan's Lake.							
COSPUS17B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1 Recreation E	Temperature °C	WL	WL	Arsenic	340	---
Qualifiers:		D.O. (mg/L)	---	5.0	Arsenic(T)	---	7.6
Other:		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (ug/L)	---	---	Chromium III	TVS	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	---	100
		Inorganic (mg/L)			Chromium VI	TVS	TVS
		Ammonia	acute	chronic	Copper	TVS	TVS
		TVS	TVS	---	Iron(T)	---	1000
		---	0.75	---	Lead	TVS	TVS
		---	---	---	Manganese	TVS	TVS
		0.019	0.011	---	Mercury(T)	---	0.01
		0.005	---	---	Molybdenum(T)	---	150
		100	---	---	Nickel	TVS	TVS
		---	0.5	---	Selenium	TVS	TVS
		---	---	---	Silver	TVS	TVS
		---	---	---	Uranium	varies*	varies*
		---	---	---	Zinc	TVS	TVS
		---	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 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

17c. Bowles Lake, a.k.a. Patrick Reservoir or Bow Mar Lake.							
COSPUS17C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT			
Reviewable	Aq Life Warm 1 Recreation E	Temperature °C	WL	WL	Aluminum	acute TVS	chronic TVS
Qualifiers:			acute	chronic	Arsenic	340	---
Other:		D.O. (mg/L)	---	5.0	Arsenic(T)	---	7.6
		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (ug/L)	---	---	Chromium III(T)	---	100
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Manganese	TVS	TVS
		Chloride	---	---	Mercury(T)	---	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	100	---	Selenium	TVS	TVS
		Nitrite	---	0.5	Silver	TVS	TVS
		Phosphorus	---	---	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			
18. Lakes and reservoirs within the boundaries of the Lost Creek and Mt. Evans Wilderness areas.							
COSPUS18	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT			
OW	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CL	CL	Arsenic	acute 340	chronic ---
Qualifiers:			acute	chronic	Arsenic(T)	---	0.02
Other:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (ug/L)	---	8*	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
			acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	10	---	Molybdenum(T)	---	150
		Nitrite	---	0.05	Nickel	TVS	TVS
		Phosphorus	---	0.025*	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					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 further details on applied standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

21. Lakes and reservoirs in the Plum Creek system except for listings in Segment 20.							
COSPUS21	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02-10 <sup>A</sup>
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
	DUWS*	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Qualifiers:</b>		chlorophyll a (ug/L)	---	---	Chromium III	---	TVS
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
*Classification: DUWS applies to Aurora Rampart only.		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.			<b>acute</b>	<b>chronic</b>	Copper	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
		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	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

22a. Lakes and reservoirs in watersheds tributary to the South Platte River from the outlet of Chatfield Reservoir to a point immediately below the confluence with Big Dry Creek, except for listings in the subbasins of the South Platte River, and in Segments 16b, 17a, 17b, 17c, 22b, and 23.

22a. Lakes and reservoirs in watersheds tributary to the South Platte River from the outlet of Chatfield Reservoir to a point immediately below the confluence with Big Dry Creek, except for listings in the subbasins of the South Platte River, and in Segments 16b, 17a, 17b, 17c, 22b, and 23.							
COSPUS22A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
	DUWS*	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Qualifiers:</b>		chlorophyll a (ug/L)	---	---	Chromium III	---	TVS
<b>Water + Fish Standards</b>		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
<b>Other:</b>		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
Temporary Modification(s):			<b>acute</b>	<b>chronic</b>	Copper	TVS	TVS
Arsenic(chronic) = hybrid		Ammonia	TVS	TVS	Iron	---	WS
Expiration Date of 12/31/2024		Boron	---	0.75	Iron(T)	---	1000
*Classification: DUWS applies to McLellan, Quincy and Marshall Reservoir only.		Chloride	---	250	Lead	TVS	TVS
*Molybdenum(T)(chronic) = 210 ug/L for McLellan Reservoir		Chlorine	0.019	0.011	Lead(T)	50	---
*Uranium(acute) = See 38.5(3) for details.		Cyanide	0.005	---	Manganese	TVS	TVS/WS
*Uranium(chronic) = See 38.5(3) for details.		Nitrate	10	---	Mercury(T)	---	0.01
		Nitrite	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Molybdenum(T)	---	210*
		Sulfate	---	WS	Nickel	TVS	TVS
		Sulfide	---	0.002	Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

22b. Lakes and reservoirs located in the Rocky Mountain Arsenal National Wildlife Refuge							
COSPUS22B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 2 Recreation E	Temperature °C	WL	WL	Arsenic	340	---
Qualifiers:			acute	chronic	Arsenic(T)	---	100
Other:	*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (ug/L)	---	---	Chromium III(T)	---	100
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Manganese	TVS	TVS
		Chloride	---	---	Mercury(T)	---	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	100	---	Selenium	TVS	TVS
		Nitrite	---	0.5	Silver	TVS	TVS
		Phosphorus	---	---	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			
23. Lakes and reservoirs in watersheds tributary to the Upper South Platte River and within the City and County of Denver, except for listings in the other subbasins of the South Platte River and in Segments 17a and 17b.							
COSPUS23	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 2 Recreation E	Temperature °C	WL	WL	Arsenic	340	---
Qualifiers:			acute	chronic	Arsenic(T)	---	7.6
Fish Ingestion Standards		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other:	*See section 38.7 (Marston Forebay). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.	pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (ug/L)	---	---	Chromium III(T)	---	100
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Manganese	TVS	TVS
		Chloride	---	---	Mercury(T)	---	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	100	---	Selenium	TVS	TVS
		Nitrite	---	0.5	Silver	TVS	TVS
		Phosphorus	---	---	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		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 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cherry Creek Basin

1. Mainstem of Cherry Creek from the source of East and West Cherry Creek to the inlet of Cherry Creek Reservoir.							
COSPCH01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024			acute	chronic	Copper	TVS	TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
		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

  

2. Cherry Creek Reservoir.								
COSPCH02	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT		acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---	
	Recreation E		acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
<b>Other:</b>		chlorophyll a (ug/L)	7/1 - 9/30	---	18*	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---	
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS	
Expiration Date of 12/31/2024			acute	chronic	Copper	TVS	TVS	
*chlorophyll a (ug/L)(chronic) = Season mean concentration measured in the upper three meters of the water column for the months of July through September with an exceedance frequency of once in five years. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS	
		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	---	---	Nickel	TVS	TVS	
		Sulfate	---	WS	Nickel(T)	---	100	
		Sulfide	---	0.002	Selenium	TVS	TVS	
					Silver	TVS	TVS	
					Uranium	varies*	varies*	
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cherry Creek Basin

3. Mainstem of Cherry Creek from the outlet of Cherry Creek Reservoir to the confluence with the South Platte River.							
COSPCH03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024			acute	chronic	Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = 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	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

4a. All tributaries to Cherry Creek, including all wetlands, from the source of East and West Cherry Creeks to the confluence with the South Platte River except for listings in Segment 4b.

COSPCH04A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02-10 <sup>A</sup>
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III	---	TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
*Phosphorus(chronic) = Applies only above the facilities listed at 38.5(4).		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.			acute	chronic	Copper	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
		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

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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cherry Creek Basin

4b. Cottonwood Creek, including all tributaries and wetlands, from the source to Cherry Creek Reservoir.

COSPCH04B		Physical and Biological			Metals (ug/L)		
Designation	Classifications	DM	MWAT	acute	chronic		
UP	Agriculture						
	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02-10 <sup>A</sup>
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III	---	TVS
*chlorophyll a (mg/m <sup>2</sup> )(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)(i) for selenium standards and assessment locations. *Selenium(chronic) = See section 38.6(4)(i) for selenium standards and assessment locations. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		<b>Inorganic (mg/L)</b>			Chromium III(T)	50	---
			<b>acute</b>	<b>chronic</b>	Chromium VI	TVS	TVS
		Ammonia	TVS	TVS	Copper	TVS	TVS
		Boron	---	0.75	Iron	---	WS
		Chloride	---	250	Iron(T)	---	1000
		Chlorine	0.019	0.011	Lead	TVS	TVS
		Cyanide	0.005	---	Lead(T)	50	---
		Nitrate	10	---	Manganese	TVS	TVS/WS
		Nitrite	---	0.5	Mercury(T)	---	0.01
		Phosphorus	---	0.17*	Molybdenum(T)	---	150
		Sulfate	---	WS	Nickel	TVS	TVS
		Sulfide	---	0.002	Nickel(T)	---	100
					Selenium	varies*	varies*
					Silver	TVS	TVS
					Uranium	varies*	varies*
			Zinc	TVS	TVS		

5. Lakes and reservoirs in the Cherry Creek system from the source of East and West Cherry Creeks to the confluence with the South Platte River, except for listings in Segments 2, 6 and 7.

COSPCH05		Physical and Biological			Metals (ug/L)		
Designation	Classifications	DM	MWAT	acute	chronic		
Reviewable	Agriculture						
	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Water + Fish Standards</b>		chlorophyll a (ug/L)	---	20*	Chromium III	---	TVS
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
			<b>acute</b>	<b>chronic</b>	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---	WS
		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	---	0.083*	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cherry Creek Basin

6. Lakes and reservoirs in watersheds tributary to Cherry Creek within the City and County of Denver.							
COSPCH06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute      chronic			
Reviewable	Aq Life Warm 2 Recreation E	Temperature °C	WL	WL	Arsenic	340      ---	
Qualifiers:	Fish Ingestion Standards	acute	chronic	Arsenic(T)	---	7.6	
		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other:	*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.	pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (ug/L)	---	---	Chromium III(T)	---	100
		Inorganic (mg/L)			Chromium VI	TVS	TVS
		acute	chronic	Copper	TVS	TVS	
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	---	Manganese	TVS	TVS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	100	---	Nickel	TVS	TVS
		Nitrite	---	0.5	Selenium	TVS	TVS
		Phosphorus	---	---	Silver	TVS	TVS
		Sulfate	---	---	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS

  

7. Rueter-Hess Reservoir							
COSPCH07	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute      chronic			
Reviewable	Aq Life Warm 1 Recreation E Water Supply DUWS	Temperature °C	WL	WL	Arsenic	340      ---	
Qualifiers:	Other:	acute	chronic	Arsenic(T)	---	0.02	
		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.	pH	6.5 - 9.0	---	Cadmium(T)	5.0      ---	
		chlorophyll a (ug/L)	---	---	Chromium III	---	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50      ---	
		Inorganic (mg/L)			Chromium VI	TVS	TVS
		acute	chronic	Copper	TVS	TVS	
		Ammonia	TVS	TVS	Iron	---	WS
		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	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Bear Creek Basin

1a. Mainstem of Bear Creek from the boundary of the Mt. Evans Wilderness area to the inlet of Evergreen Lake.							
COSPBE01A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute      chronic			
Reviewable	Aq Life Cold 1 Recreation E Water Supply	CS-I	CS-I	Arsenic	340	---	
Qualifiers:		acute	chronic	Arsenic(T)	---	0.02	
Other:		D.O. (mg/L)	---	6.0	Cadmium	TVS	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	
		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
		acute      chronic			Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	10	---	Molybdenum(T)	---	150
		Nitrite	---	0.05	Nickel	TVS	TVS
		Phosphorus	---	0.11*	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
Sulfide	---	0.002	Silver	TVS	TVS(tr)		
				Uranium	varies*	varies*	
				Zinc	TVS	TVS	
1b. Mainstem of Bear Creek from Harriman Ditch to the inlet of Bear Creek Reservoir.							
COSPBE01B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute      chronic			
Reviewable	Aq Life Cold 1 Recreation E Water Supply	varies*	varies*	Arsenic	340	---	
Qualifiers:		acute	chronic	Arsenic(T)	---	0.02	
Water + Fish Standards		D.O. (mg/L)	---	6.0	Cadmium	TVS	
Other:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details. *Temperature = DM=CS-II and MWAT=CS-II from 11/1-3/31 DM=CS-II and MWAT= 19.3 from 4/1-10/31		pH	6.5 - 9.0	---	Chromium III	---	
		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
		acute      chronic			Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
		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	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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Bear Creek Basin

1c. Bear Creek Reservoir.						
COSPBE01C	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	Metals (ug/L)		
Reviewable	Aq Life Cold 1 Recreation E Water Supply	acute	chronic	acute	chronic	
		varies*	varies*	Arsenic	340	---
				Arsenic(T)	---	0.02
		---	6.0	Cadmium	TVS	TVS
		---	7.0	Cadmium(T)	5.0	---
		6.5 - 9.0	---	Chromium III	---	TVS
		7/1 - 9/30	12.2*	Chromium III(T)	50	---
		---	126	Chromium VI	TVS	TVS
				Copper	TVS	TVS
		Inorganic (mg/L)		Iron	---	WS
		acute	chronic	Iron(T)	---	1000
		TVS	TVS	Lead	TVS	TVS
		---	0.75	Lead(T)	50	---
		---	250	Manganese	TVS	TVS/WS
		0.019	0.011	Mercury(T)	---	0.01
		0.005	---	Molybdenum(T)	---	150
		10	---	Nickel	TVS	TVS
		---	0.05	Nickel(T)	---	100
		7/1 - 9/30	22.2*	Selenium	TVS	TVS
		---	WS	Silver	TVS	TVS(tr)
		---	0.002	Uranium	varies*	varies*
				Zinc	TVS	TVS

**Qualifiers:**  
**Other:**  
 Temporary Modification(s):  
 Arsenic(chronic) = hybrid  
 Expiration Date of 12/31/2024  
 \*chlorophyll a (ug/L)(chronic) = mean concentration measured through collection of samples that are representative of the mixed layer during summer months (July, August, September) and with an exceedance frequency of once in five years.  
 \*Phosphorus(chronic) = mean concentration measured through collection of samples that are representative of the mixed layer during summer months (July, August, September) and with an exceedance frequency of once in five years.  
 \*Uranium(acute) = See 38.5(3) for details.  
 \*Uranium(chronic) = See 38.5(3) for details.  
 \*Temperature =  
 DM=CLL and MWAT=CLL from 1/1-3/31  
 DM=CLL and MWAT= 23.3 from 4/1-12/31

  

1d. Evergreen Lake.						
COSPBE01D	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	Metals (ug/L)		
Reviewable	Aq Life Cold 1 Recreation E Water Supply DUWS	CLL	CLL	acute	chronic	
		CLL	CLL	Arsenic	340	---
				Arsenic(T)	---	0.02
		---	6.0	Cadmium	TVS	TVS
		---	7.0	Cadmium(T)	5.0	---
		6.5 - 9.0	---	Chromium III	---	TVS
		---	---	Chromium III(T)	50	---
		---	126	Chromium VI	TVS	TVS
				Copper	TVS	TVS
		Inorganic (mg/L)		Iron	---	WS
		acute	chronic	Iron(T)	---	1000
		TVS	TVS	Lead	TVS	TVS
		---	0.75	Lead(T)	50	---
		---	250	Manganese	TVS	TVS/WS
		0.019	0.011	Mercury(T)	---	0.01
		0.005	---	Molybdenum(T)	---	150
		10	---	Nickel	TVS	TVS
		---	0.05	Nickel(T)	---	100
		---	---	Selenium	TVS	TVS
		---	WS	Silver	TVS	TVS(tr)
		---	0.002	Uranium	varies*	varies*
				Zinc	TVS	TVS

**Qualifiers:**  
**Other:**  
 \*Uranium(acute) = See 38.5(3) for details.  
 \*Uranium(chronic) = See 38.5(3) for details.

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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Bear Creek Basin

1e. Mainstem of Bear Creek from the outlet of Evergreen Lake to the Harriman Ditch.							
COSPBE01E	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT				
Reviewable	Aq Life Cold 1	varies*	varies*	acute	chronic		
	Recreation E	acute	chronic	Arsenic	340	---	
	Water Supply			Arsenic(T)	---	0.02	
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Temporary Modification(s):		pH	6.5 - 9.0	---	Chromium III	---	TVS
Arsenic(chronic) = hybrid		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III(T)	50	---
Expiration Date of 12/31/2024		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Inorganic (mg/L)			Copper	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.		acute	chronic				
*Temperature =		Ammonia	TVS	TVS	Iron	---	WS
DM=CS-II and MWAT=CS-II from 11/1-3/31		Boron	---	0.75	Iron(T)	---	1000
DM=CS-II and MWAT= 19.3 from 4/1-10/31		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	---	0.05	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS
2. Mainstem of Bear Creek from the outlet of Bear Creek Reservoir to the confluence with the South Platte River.							
COSPBE02	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT				
Reviewable	Aq Life Warm 1	WS-II	WS-II	acute	chronic		
	Recreation E	acute	chronic	Arsenic	340	---	
	Water Supply			Arsenic(T)	---	0.02	
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Expiration Date of 12/31/2024		Inorganic (mg/L)			Chromium VI	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		acute	chronic				
*Uranium(chronic) = See 38.5(3) for details.		Ammonia	TVS	TVS	Copper	TVS	TVS
		Boron	---	0.75	Iron	---	WS
		Chloride	---	250	Iron(T)	---	1000
		Chlorine	0.019	0.011	Lead	TVS	TVS
		Cyanide	0.005	---	Lead(T)	50	---
		Nitrate	10	---	Manganese	TVS	TVS/WS
		Nitrite	---	0.5	Mercury(T)	---	0.01
		Phosphorus	---	---	Molybdenum(T)	---	150
		Sulfate	---	WS	Nickel	TVS	TVS
		Sulfide	---	0.002	Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Bear Creek Basin

3. All tributaries to Bear Creek, including all wetlands, from the source to the outlet of Evergreen Lake, except for listings in Segment 7.							
COSPBE03	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-I	CS-I	Arsenic	340      ---	
Qualifiers:		acute	chronic				
Other:		D.O. (mg/L)	---	6.0	Arsenic(T)	---      0.02	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		D.O. (spawning)	---	7.0	Cadmium	TVS      TVS	
		pH	6.5 - 9.0	---			
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	---
		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
		Inorganic (mg/L)			Chromium III(T)	50	---
		acute      chronic			Chromium VI	TVS	TVS
		Ammonia	TVS	TVS	Copper	TVS	TVS
		Boron	---	0.75	Iron	---	WS
		Chloride	---	250	Iron(T)	---	1000
		Chlorine	0.019	0.011	Lead	TVS	TVS
		Cyanide	0.005	---	Lead(T)	50	---
		Nitrate	10	---	Manganese	TVS	TVS/WS
		Nitrite	---	0.05	Mercury(T)	---	0.01
		Phosphorus	---	0.11*	Molybdenum(T)	---	150
		Sulfate	---	WS	Nickel	TVS	TVS
Sulfide	---	0.002	Nickel(T)	---	100		
			Selenium	TVS	TVS		
			Silver	TVS	TVS(tr)		
			Uranium	varies*	varies*		
			Zinc	TVS	TVS		
4. All tributaries to Bear Creek, including all wetlands, from the outlet of Evergreen Lake to the confluence with the South Platte River, except for specific listings in Segments 5, 6a, and 6b.							
COSPBE04	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute      chronic			
Reviewable	Aq Life Warm 2 Recreation E Water Supply	Temperature °C	WS-I	WS-I	Arsenic	340      ---	
Qualifiers:		acute	chronic				
Water + Fish Standards		D.O. (mg/L)	---	5.0	Arsenic(T)	---      0.02	
Other:		pH	6.5 - 9.0	---	Cadmium	TVS      TVS	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium(T)	5.0	
		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
		Inorganic (mg/L)			Chromium III(T)	50	---
		acute      chronic			Chromium VI	TVS	TVS
		Ammonia	TVS	TVS	Copper	TVS	TVS
		Boron	---	0.75	Iron	---	WS
		Chloride	---	250	Iron(T)	---	1000
		Chlorine	0.019	0.011	Lead	TVS	TVS
		Cyanide	0.005	---	Lead(T)	50	---
		Nitrate	10	---	Manganese	TVS	TVS/WS
		Nitrite	---	0.5	Mercury(T)	---	0.01
		Phosphorus	---	---	Molybdenum(T)	---	150
		Sulfate	---	WS	Nickel	TVS	TVS
		Sulfide	---	0.002	Nickel(T)	---	100
					Selenium	TVS	TVS
			Silver	TVS	TVS		
			Uranium	varies*	varies*		
			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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Bear Creek Basin

5. Swede, Kerr, Sawmill, Troublesome, and Cold Springs Gulches, and mainstem of Cub Creek from the source to the confluence with Bear Creek.									
COSPBE05	Classifications	Physical and Biological			Metals (ug/L)				
Designation	Agriculture	DM	MWAT		acute	chronic			
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---		
	Recreation E		acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS		
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---		
<b>Water + Fish Standards</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS		
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---		
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS		
Arsenic(chronic) = hybrid					Copper	TVS	TVS		
Expiration Date of 12/31/2024					Inorganic (mg/L)		Iron	---	WS
			acute	chronic	Iron(T)	---	1000		
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).		Ammonia	TVS	TVS	Lead	TVS	TVS		
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Boron	---	0.75	Lead(T)	50	---		
*Uranium(acute) = See 38.5(3) for details.		Chloride	---	250	Manganese	TVS	TVS/WS		
*Uranium(chronic) = See 38.5(3) for details.		Chlorine	0.019	0.011	Mercury(T)	---	0.01		
		Cyanide	0.005	---	Molybdenum(T)	---	150		
		Nitrate	10	---	Nickel	TVS	TVS		
		Nitrite	---	0.05	Nickel(T)	---	100		
		Phosphorus	---	0.11*	Selenium	TVS	TVS		
		Sulfate	---	WS	Silver	TVS	TVS(tr)		
		Sulfide	---	0.002	Uranium	varies*	varies*		
					Zinc	TVS	TVS		

  

6a. Turkey Creek system, including all tributaries and wetlands, from the source to the inlet of Bear Creek Reservoir, except for listings in Segment 6b.									
COSPBE06A	Classifications	Physical and Biological			Metals (ug/L)				
Designation	Agriculture	DM	MWAT		acute	chronic			
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---		
	Recreation E		acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS		
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---		
<b>Water + Fish Standards</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS		
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---		
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS		
Arsenic(chronic) = hybrid					Copper	TVS	TVS		
Expiration Date of 12/31/2024					Inorganic (mg/L)		Iron	---	WS
			acute	chronic	Iron(T)	---	1000		
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).		Ammonia	TVS	TVS	Lead	TVS	TVS		
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Boron	---	0.75	Lead(T)	50	---		
*Uranium(acute) = See 38.5(3) for details.		Chloride	---	250	Manganese	TVS	TVS/WS		
*Uranium(chronic) = See 38.5(3) for details.		Chlorine	0.019	0.011	Mercury(T)	---	0.01		
		Cyanide	0.005	---	Molybdenum(T)	---	150		
		Nitrate	10	---	Nickel	TVS	TVS		
		Nitrite	---	0.05	Nickel(T)	---	100		
		Phosphorus	---	0.11*	Selenium	TVS	TVS		
		Sulfate	---	WS	Silver	TVS	TVS(tr)		
		Sulfide	---	0.002	Uranium	varies*	varies*		
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Bear Creek Basin

6b. Mainstem of North Turkey Creek, from the source to the confluence with Turkey Creek.						
COSPBE06B	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E		acute	chronic	Arsenic(T)	---
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III(T)	50
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)			Copper	TVS
			acute	chronic	Iron	---
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Phosphorus	---	---	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
					Uranium	varies*
					Zinc	TVS
7. Mainstem and all tributaries to Bear Creek, including wetlands, within the Mt. Evans Wilderness Area.						
COSPBE07	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E		acute	chronic	Arsenic(T)	---
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)			Copper	TVS
			acute	chronic	Iron	---
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Phosphorus	---	0.11	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
					Uranium	varies*
					Zinc	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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Bear Creek Basin

8. Lakes and reservoirs in the Bear Creek system from the sources to the boundary of the Mt. Evans Wilderness area.								
COSPBE08	Classifications	Physical and Biological			Metals (ug/L)			
Designation		DM	MWAT		acute	chronic		
OW	Agriculture							
	Aq Life Cold 1	CL	CL	Arsenic	340	---		
	Recreation E	<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02		
	Water Supply			D.O. (mg/L)	---	6.0		
<b>Qualifiers:</b>				D.O. (spawning)	---	7.0		
<b>Other:</b>				pH	6.5 - 9.0	---		
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.				chlorophyll a (ug/L)	---	8*		
				E. Coli (per 100 mL)	---	126		
		<b>Inorganic (mg/L)</b>						
				<b>acute</b>	<b>chronic</b>	Iron	---	WS
			Ammonia	TVS	TVS	Iron(T)	---	1000
			Boron	---	0.75	Lead	TVS	TVS
			Chloride	---	250	Lead(T)	50	---
			Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
			Cyanide	0.005	---	Mercury(T)	---	0.01
			Nitrate	10	---	Molybdenum(T)	---	150
			Nitrite	---	0.05	Nickel	TVS	TVS
			Phosphorus	---	0.025*	Nickel(T)	---	100
			Sulfate	---	WS	Selenium	TVS	TVS
			Sulfide	---	0.002	Silver	TVS	TVS(tr)
						Uranium	varies*	varies*
				Zinc	TVS	TVS		

  

9. Lakes and reservoirs in the Bear Creek system from the boundary of the Mt. Evans Wilderness area to the inlet of Evergreen Lake; includes Summit Lake.								
COSPBE09	Classifications	Physical and Biological			Metals (ug/L)			
Designation		DM	MWAT		acute	chronic		
Reviewable	Agriculture							
	Aq Life Cold 1	CL	CL	Arsenic	340	---		
	Recreation E	<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02		
	Water Supply			D.O. (mg/L)	---	6.0		
<b>Qualifiers:</b>				D.O. (spawning)	---	7.0		
<b>Other:</b>				pH	6.5 - 9.0	---		
*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.				chlorophyll a (ug/L)	---	8*		
				E. Coli (per 100 mL)	---	126		
		<b>Inorganic (mg/L)</b>						
				<b>acute</b>	<b>chronic</b>	Iron	---	WS
			Ammonia	TVS	TVS	Iron(T)	---	1000
			Boron	---	0.75	Lead	TVS	TVS
			Chloride	---	250	Lead(T)	50	---
			Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
			Cyanide	0.005	---	Mercury(T)	---	0.01
			Nitrate	10	---	Molybdenum(T)	---	150
			Nitrite	---	0.05	Nickel	TVS	TVS
			Phosphorus	---	0.025*	Nickel(T)	---	100
			Sulfate	---	WS	Selenium	TVS	TVS
			Sulfide	---	0.002	Silver	TVS	TVS(tr)
						Uranium	varies*	varies*
				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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Bear Creek Basin

10. Lakes and reservoirs in drainages of Swede Gulch, Sawmill Gulch, Troublesome Gulch, and Cold Springs Gulch from source to confluence with Bear Creek.						
COSPBE10	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 2 Recreation E Water Supply	CL	CL	340	---	
Qualifiers:	Water + Fish Standards	acute	chronic	---	0.02	
		---	6.0	TVS	TVS	
Other:	*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.	---	7.0	5.0	---	
		6.5 - 9.0	---	---	TVS	
		Inorganic (mg/L)			---	TVS
		acute	chronic	---	WS	
		TVS	TVS	---	1000	
		---	0.75	TVS	TVS	
		---	250	50	---	
		0.019	0.011	TVS	TVS/WS	
		0.005	---	---	0.01	
		10	---	---	150	
		---	0.05	TVS	TVS	
		---	---	---	100	
		---	---	TVS	TVS	
		---	WS	TVS	TVS(tr)	
		---	0.002	varies*	varies*	
		---	---	TVS	TVS	
11. Lakes and reservoirs in the Bear Creek system from the outlet of Evergreen Lake to the confluence with the South Platte River, except for lakes and reservoirs in Segments 1c, 10, and 12; includes Soda Lakes.						
COSPBE11	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 2 Recreation E Water Supply	WL	WL	340	---	
Qualifiers:	Water + Fish Standards	acute	chronic	---	0.02	
		---	5.0	TVS	TVS	
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.	6.5 - 9.0	---	5.0	---	
		---	---	---	TVS	
		Inorganic (mg/L)			50	---
		acute	chronic	---	TVS	
		TVS	TVS	TVS	TVS	
		---	0.75	---	WS	
		---	250	---	1000	
		0.019	0.011	TVS	TVS	
		0.005	---	50	---	
		10	---	TVS	TVS/WS	
		---	0.5	---	0.01	
		---	---	---	150	
		---	---	TVS	TVS	
		---	WS	---	100	
		---	0.002	TVS	TVS	
		---	---	TVS	TVS	
		---	---	TVS	TVS	
		---	---	varies*	varies*	
		---	---	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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Bear Creek Basin

12. Lakes and reservoirs in the Turkey Creek system from the source to the inlet of Bear Creek Reservoir.							
COSPBE12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 2	CL	CL	Temperature °C	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	---	6.0	D.O. (mg/L)	Cadmium	TVS	TVS
<b>Qualifiers:</b>		---	7.0	D.O. (spawning)	Cadmium(T)	5.0	---
<b>Water + Fish Standards</b>		6.5 - 9.0	---	pH	Chromium III	---	TVS
<b>Other:</b>		---	---	chlorophyll a (ug/L)	Chromium III(T)	50	---
*Uranium(acute) = See 38.5(3) for details.		---	126	E. Coli (per 100 mL)	Chromium VI	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic		Iron	---	WS
	Ammonia	TVS	TVS		Iron(T)	---	1000
	Boron	---	0.75		Lead	TVS	TVS
	Chloride	---	250		Lead(T)	50	---
	Chlorine	0.019	0.011		Manganese	TVS	TVS/WS
	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	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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

1. Mainstem of Clear Creek, including all tributaries and wetlands, from the source to the I-70 bridge above Silver Plume.						
COSPCLO1	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		
Reviewable*	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E		acute	chronic	Arsenic(T)	---
	Water Supply				0.02	---
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS
Other:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Temporary Modification(s):		pH	6.5 - 9.0	---	Chromium III	---
Arsenic(chronic) = hybrid		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50
Expiration Date of 12/31/2024		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
					Copper	TVS
					Iron	---
					Iron(T)	---
					Lead	TVS
					Lead(T)	50
					Manganese	TVS
					Mercury(T)	---
					Molybdenum(T)	---
					Nickel	TVS
					Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	TVS
						TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).						
*Designation: 9/30/00 Baseline does not apply						
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).						
*Uranium(acute) = See 38.5(3) for details.						
*Uranium(chronic) = See 38.5(3) for details.						

  

2a. Mainstem of Clear Creek, including all tributaries and wetlands, from the I-70 bridge above Silver Plume to a point just above the confluence with West Fork Clear Creek, except for listings in Segments 3a and 3b.						
COSPCLO2A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		
Reviewable*	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E		acute	chronic	Arsenic(T)	---
	Water Supply				0.02	---
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS
Other:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Temporary Modification(s):		pH	6.5 - 9.0	---	Chromium III	---
Arsenic(chronic) = hybrid		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50
Expiration Date of 12/31/2024		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
					Copper	TVS
					Iron	---
					Iron(T)	---
					Lead	TVS
					Lead(T)	50
					Manganese	TVS
					Mercury(T)	---
					Molybdenum(T)	---
					Nickel	TVS
					Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	SSE*
						---
						SSE*
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).						
*Designation: 9/30/00 Baseline does not apply						
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).						
*Uranium(acute) = See 38.5(3) for details.						
*Uranium(chronic) = See 38.5(3) for details.						
*Zinc(acute) = 0.978e^(0.8537[ln(hardness)]+1.9467)						
*Zinc(chronic) = 0.986e^(0.8537[ln(hardness)]+1.8032)						

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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

2b. Mainstem of Clear Creek, including all tributaries and wetlands, from the confluence with West Fork Clear Creek to a point just below the confluence with Mill Creek, except for listings in Segments 4 through 8.							
COSPCL02B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute		chronic	
Reviewable*		acute	chronic	Arsenic	340	---	
Qualifiers:	Other:  Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Designation: 9/30/00 Baseline does not apply *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.	Temperature °C	CS-I	CS-I	Arsenic(T)	---	0.02
Other:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
D.O. (spawning)		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III	---	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
		Inorganic (mg/L)			Chromium VI	TVS	TVS
		acute	chronic	Copper	TVS	TVS	
		Ammonia	TVS	TVS	Iron	---	WS
		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	---	0.05	Molybdenum(T)	---	150
		Phosphorus	---	0.11*	Nickel	TVS	TVS
	Sulfate	---	WS	Nickel(T)	---	100	
Sulfide	---	0.002	Selenium	TVS	TVS		
			Silver	TVS	TVS(tr)		
			Uranium	varies*	varies*		
			Zinc	TVS	TVS		
2c. Mainstem of Clear Creek, including all tributaries and wetlands, from a point just below the confluence with Mill Creek to a point just above the Argo Tunnel discharge, except for listings in Segments 9a, 9b, and 10.							
COSPCL02C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute		chronic	
Reviewable*		acute	chronic	Arsenic	340	---	
Qualifiers:	Other:  Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Designation: 9/30/00 Baseline does not apply *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details. *Zinc(acute) = $0.978e^{(0.8537[\ln(\text{hardness}))+1.9467]}$ *Zinc(chronic) = $0.986e^{(0.8537[\ln(\text{hardness}))+1.8032]}$	Temperature °C	CS-I	CS-I	Arsenic(T)	---	0.02
Other:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
D.O. (spawning)		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III	---	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
		Inorganic (mg/L)			Chromium VI	TVS	TVS
		acute	chronic	Copper	TVS	TVS	
		Ammonia	TVS	TVS	Iron	---	WS
		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	---	0.05	Molybdenum(T)	---	150
		Phosphorus	---	0.11*	Nickel	TVS	TVS
	Sulfate	---	WS	Nickel(T)	---	100	
Sulfide	---	0.002	Selenium	TVS	TVS		
			Silver	TVS	TVS(tr)		
			Uranium	varies*	varies*		
			Zinc	---	SSE*		
			Zinc	SSE*	---		

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 further details on applied standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

4. Mainstem of West Fork Clear Creek from the source to the confluence with Woods Creek.							
COSPCL04	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable*	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Designation: 9/30/00 Baseline does not apply		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
*Uranium(acute) = See 38.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.					Copper	TVS	TVS
		<b>Inorganic (mg/L)</b>			Iron	---	WS
			<b>acute</b>	<b>chronic</b>	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	210
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

  

5. Mainstem of West Fork Clear Creek from the confluence with Woods Creek to the confluence with Clear Creek.							
COSPCL05	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).		<b>Inorganic (mg/L)</b>			Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).			<b>acute</b>	<b>chronic</b>	Iron(T)	---	1000
*Manganese(chronic) = 393 ug/L at the mouth of West Fork, and 1480 ug/L below Woods Creek, see section 38.6(4)(j) for manganese assessment locations. Chronic TVS applies throughout segment.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
*Uranium(chronic) = See 38.5(3) for details.		Chloride	---	250	Manganese	TVS	varies*
*Zinc(acute) = e <sup>-(0.8404[ln(hardness)]+1.8810)</sup>		Chlorine	0.019	0.011	Mercury(T)	---	0.01
*Zinc(chronic) = e <sup>-(0.8404[ln(hardness)]+1.5127)</sup>		Cyanide	0.005	---	Molybdenum(T)	---	210
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	---	SSE*
					Zinc	SSE*	---

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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

6. All tributaries to West Fork Clear Creek, including all wetlands, from the source to the confluence with Clear Creek, except for listings in Segments 7a and 8.							
COSPCL06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable*	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Designation: 9/30/00 Baseline does not apply					<b>Inorganic (mg/L)</b>		
*Uranium(acute) = See 38.5(3) for details.			acute	chronic	Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.					Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

  

7a. Mainstem of Woods Creek from the outlet of Upper Urad Reservoir to the confluence with West Fork Clear Creek.							
COSPCL07A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Aq Life Cold 2	DM	MWAT		acute	chronic	
UP	Recreation N	Temperature °C	CS-I	CS-I	Arsenic	340	150
			acute	chronic	Cadmium	TVS	TVS
<b>Qualifiers:</b>		D.O. (mg/L)	---	6.0	Chromium III	TVS	TVS
<b>Other:</b>		D.O. (spawning)	---	7.0	Chromium VI	TVS	TVS
Temporary Modification(s):		pH	6.5 - 9.0	---	Copper	TVS	TVS
temperature(MWAT) = current condition	10/1 - 11/30	chlorophyll a (mg/m <sup>2</sup> )	---	---	Iron(T)	---	1000
temperature(MWAT) = current condition	4/1 - 5/31	E. Coli (per 100 mL)	---	630	Lead	TVS	TVS
Expiration Date of 6/30/2023					Manganese	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.					<b>Inorganic (mg/L)</b>		
*Uranium(chronic) = See 38.5(3) for details.			acute	chronic	Mercury(T)	---	0.01
		Ammonia	TVS	TVS	Molybdenum(T)	---	---
		Boron	---	---	Nickel	TVS	TVS
		Chloride	---	---	Selenium	TVS	TVS
		Chlorine	0.019	0.011	Silver	TVS	TVS(tr)
		Cyanide	0.005	---	Uranium	varies*	varies*
		Nitrate	---	---	Zinc	TVS	TVS
		Nitrite	---	0.05			
		Phosphorus	---	0.11			
		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 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

7b. Lower Urad Reservoir						
COSPCL07B	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Aq Life Cold 2	DM	MWAT	acute      chronic		
UP	Recreation N	CL	CL	Arsenic	340	150
Qualifiers:		acute	chronic	Cadmium	TVS	TVS
Other:		---	6.0	Chromium III	TVS	TVS
Temporary Modification(s):	10/1 - 11/30	---	7.0	Chromium VI	TVS	TVS
temperature(MWAT) = current condition	4/1 - 5/31	6.5 - 9.0	---	Copper	TVS	TVS
temperature(MWAT) = current condition		---	---	Iron(T)	---	1000
Expiration Date of 6/30/2023		---	630	Lead	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Inorganic (mg/L)		Manganese	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.		acute	chronic	Mercury(T)	---	0.01
		TVS	TVS	Molybdenum(T)	---	---
		---	---	Nickel	TVS	TVS
		---	---	Selenium	TVS	TVS
		0.019	0.011	Silver	TVS	TVS(tr)
		0.005	---	Uranium	varies*	varies*
		---	---	Zinc	TVS	TVS
		---	---			
		---	0.05			
		---	---			
		---	---			
		---	---			
		---	0.002			

  

8. Mainstem of Lion Creek from the source to the confluence with West Fork Clear Creek.						
COSPCL08	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Aq Life Cold 2	DM	MWAT	acute      chronic		
UP	Recreation E	CS-I	CS-I	Arsenic	---	---
Qualifiers:		acute	chronic	Cadmium	---	---
Other:		---	6.0	Chromium III	---	---
*Uranium(acute) = See 38.5(3) for details.		---	7.0	Chromium VI	---	---
*Uranium(chronic) = See 38.5(3) for details.		3.0-9.0	---	Copper	---	---
		---	150	Iron	---	---
		---	126	Lead	---	---
		Inorganic (mg/L)		Manganese	---	---
		acute	chronic	Mercury(T)	---	---
		---	---	Molybdenum(T)	---	---
		---	---	Nickel	---	---
		---	---	Selenium	---	---
		---	---	Silver	---	---
		---	---	Uranium	varies*	varies*
		---	---	Zinc	---	---
		---	---			
		---	---			
		---	---			
		---	---			
		---	---			
		---	---			
		---	---			
		---	---			

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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

9a. Mainstem of Fall River, including all tributaries and wetlands, from the source to the confluence with Clear Creek.							
COSPCL09A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT				
Reviewable*	Aq Life Cold 1	acute	chronic	acute	chronic		
	Recreation E	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
Other:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III	---	TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Expiration Date of 12/31/2024					Chromium VI	TVS	TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).		Inorganic (mg/L)			Copper	TVS	TVS
*Designation: 9/30/00 Baseline does not apply		acute	chronic		Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Ammonia	TVS	TVS	Iron(T)	---	1000
*Uranium(acute) = See 38.5(3) for details.		Boron	---	0.75	Lead	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	10	---	Molybdenum(T)	---	150
		Nitrite	---	0.05	Nickel	TVS	TVS
		Phosphorus	---	0.11*	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

  

9b. Mainstem of Trail Creek, including all tributaries and wetlands from the source to the confluence with Clear Creek.							
COSPCL09B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT				
Reviewable*	Aq Life Cold 1	acute	chronic	acute	chronic		
	Recreation E	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
Other:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
*Designation: 9/30/00 Baseline does not apply		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS
*Uranium(acute) = See 38.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
*Uranium(chronic) = See 38.5(3) for details.					Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic		Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	10	---	Molybdenum(T)	---	150
		Nitrite	---	0.05	Nickel	TVS	TVS
		Phosphorus	---	0.11	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	200

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 further details on applied standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

12a. All tributaries to Clear Creek, including all wetlands, from the Argo Tunnel discharge to the Farmers Highline Canal diversion in Golden, Colorado, except for listings in Segments 12b, 13a and 13b.

COSPCL12A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable*	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02-10 <sup>A</sup>
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
			Inorganic (mg/L)		Copper	TVS	TVS
			acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	10	---	Molybdenum(T)	---	150
		Nitrite	---	0.05	Nickel	TVS	TVS
		Phosphorus	---	0.11*	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

12b. Beaver Brook, from the source to the confluence with Soda Creek, and Soda Creek, from the source to the confluence with Clear Creek.

COSPCL12B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable*	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
			Inorganic (mg/L)		Copper	TVS	TVS
			acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	10	---	Molybdenum(T)	---	150
		Nitrite	---	0.05	Nickel	TVS	TVS
		Phosphorus	---	0.11*	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

13a. Mainstem of North Clear Creek, including all tributaries and wetlands, from its source to its confluence with Chase Gulch, and Four Mile Gulch, including all tributaries and wetlands, from their sources to their confluence with North Clear Creek and Eureka Gulch, including all tributaries and wetlands, from its source to its confluence with Gregory Gulch.							
COSPCL13A	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-I	CS-I	Arsenic	340	---
Qualifiers:		acute	chronic	Arsenic(T)	---	0.02	
Other:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
D.O. (spawning) --- 7.0 pH 6.5 - 9.0 --- chlorophyll a (mg/m <sup>2</sup> ) --- 150 E. Coli (per 100 mL) --- 126 Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Designation: 9/30/00 Baseline does not apply *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		Inorganic (mg/L)			Cadmium(T)	5.0	---
		acute	chronic	Chromium III	---	TVS	
		Ammonia	TVS	TVS	Chromium III(T)	50	---
		Boron	---	0.75	Chromium VI	TVS	TVS
		Chloride	---	250	Copper	TVS	TVS
		Chlorine	0.019	0.011	Iron	---	WS
		Cyanide	0.005	---	Iron(T)	---	1000
		Nitrate	10	---	Lead	TVS	TVS
		Nitrite	---	0.05	Lead(T)	50	---
		Phosphorus	---	0.11	Manganese	TVS	TVS/WS
		Sulfate	---	WS	Mercury(T)	---	0.01
		Sulfide	---	0.002	Molybdenum(T)	---	150
		Sulfate	---	WS	Nickel	TVS	TVS
		Sulfide	---	0.002	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
Sulfide	---	0.002	Silver	TVS	TVS(tr)		
Sulfate	---	WS	Uranium	varies*	varies*		
Sulfide	---	0.002	Zinc	TVS	TVS		
13b. Mainstem of North Clear Creek including all tributaries and wetlands from a point just below the confluence with Chase Gulch to the confluence with Clear Creek, except for the listings in Segment 13a.							
COSPCL13B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute      chronic			
UP	Aq Life Cold 2 Water Supply Recreation E	Temperature °C	CS-I	CS-I	Arsenic	340	---
Qualifiers:		acute	chronic	Arsenic(T)	---	0.02	
Water + Fish Standards		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
pH 6.5 - 9.0 --- chlorophyll a (mg/m <sup>2</sup> ) --- 150* E. Coli (per 100 mL) --- 126 Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		Inorganic (mg/L)			Chromium III	---	TVS
		acute	chronic	Chromium III(T)	50	---	
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	---	64
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	5400
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	---	0.05	Manganese	TVS	TVS/WS
		Phosphorus	---	0.11*	Mercury(T)	---	0.01
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
Sulfide	---	0.002	Uranium	varies*	varies*		
Sulfate	---	WS	Zinc	---	740		
Sulfide	---	0.002	Zinc	---	740		

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 further details on applied 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 Aq Life Warm 2 Recreation N Water Supply	DM	MWAT	acute      chronic				
UP		WS-II	WS-II	Arsenic	340	---		
Qualifiers:		acute	chronic	Arsenic(T)	---	0.02-10 <sup>A</sup>		
Other:		D.O. (mg/L)	---	5.0	Cadmium	TVS      TVS		
*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Cadmium(T)	5.0      ---		
		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS	
		E. Coli (per 100 mL)	---	630	Chromium III(T)	50	---	
		Inorganic (mg/L)			Chromium VI	TVS	TVS	
		Ammonia	acute	chronic	Copper	TVS	TVS	
		Boron	TVS	TVS	Iron	---	WS	
		Chloride	---	0.75	Iron(T)	---	1000	
		Chlorine	---	250	Lead	TVS	TVS	
		Cyanide	0.019	0.011	Lead(T)	50	---	
		Nitrate	0.005	---	Manganese	TVS	244	
		Nitrite	10	---	Mercury(T)	---	0.01	
		Phosphorus	---	0.5	Molybdenum(T)	---	150	
		Sulfate	---	---	Nickel	TVS	TVS	
		Sulfide	---	WS	Nickel(T)	---	100	
			---	0.002	Selenium	TVS	TVS	
					Silver	TVS	TVS	
					Uranium	varies*	varies*	
					Zinc	TVS	TVS	
		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 Aq Life Warm 2 Recreation E Water Supply	DM	MWAT	acute      chronic				
UP		WS-II	WS-II	Arsenic	340	---		
Qualifiers:		acute	chronic	Arsenic(T)	---	0.02		
Water + Fish Standards		D.O. (mg/L)	---	5.0	Cadmium	TVS      TVS		
Other:		pH	6.5 - 9.0	---	Cadmium(T)	5.0      ---		
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS	
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---	
		Inorganic (mg/L)			Chromium VI	TVS	TVS	
		Ammonia	acute	chronic	Copper	TVS	TVS	
		Boron	TVS	TVS	Iron	---	WS	
		Chloride	---	0.75	Iron(T)	---	1000	
		Chlorine	---	250	Lead	TVS	TVS	
		Cyanide	0.019	0.011	Lead(T)	50	---	
		Nitrate	0.005	---	Manganese	TVS	244	
		Nitrite	10	---	Mercury(T)	---	0.01	
		Phosphorus	---	0.5	Molybdenum(T)	---	150	
		Sulfate	---	---	Nickel	TVS	TVS	
		Sulfide	---	WS	Nickel(T)	---	100	
			---	0.002	Selenium	TVS	TVS	
					Silver	TVS	TVS	
					Uranium	varies*	varies*	
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

15. Mainstem of Clear Creek from Youngfield Street in Wheat Ridge, Colorado, to the confluence with the South Platte River.							
COSPCL15	Classifications	Physical and Biological			Metals (ug/L)		
Designation			DM	MWAT			
					acute	chronic	
UP	Agriculture Aq Life Warm 1 Recreation E Water Supply	Temperature °C	WS-II	WS-II	Arsenic	340	---
			<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02
		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
			<b>Inorganic (mg/L)</b>		Chromium VI	TVS	TVS
			<b>acute</b>	<b>chronic</b>	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---	WS
		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	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
16a. Mainstem of Lena Gulch including all tributaries and wetlands from its source to the inlet of Maple Grove Reservoir.							
COSPCL16A	Classifications	Physical and Biological			Metals (ug/L)		
Designation			DM	MWAT			
					acute	chronic	
UP	Agriculture Aq Life Warm 2 Recreation E Water Supply	Temperature °C	WS-II	WS-II	Arsenic	340	---
			<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02-10 <sup>A</sup>
		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
			<b>Inorganic (mg/L)</b>		Chromium VI	TVS	TVS
			<b>acute</b>	<b>chronic</b>	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---	WS
		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	---	0.05	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

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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

16b. All tributaries to Clear Creek from the Farmers Highline Canal diversion in Golden, Colorado to the confluence with the South Platte River, except for listings in Segments 16a, 17b, 18a and 18b.

COSPCL16B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Warm 2 Recreation E	Temperature °C	WS-II WS-II	Arsenic	340	---	
			<b>acute</b> <b>chronic</b>	Arsenic(T)	---	100	
<b>Qualifiers:</b>		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	---	100
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
			<b>Inorganic (mg/L)</b>		Copper	TVS	TVS
			<b>acute</b> <b>chronic</b>	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Manganese	TVS	TVS
		Chloride	---	---	Mercury(T)	---	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	100	---	Selenium	TVS	TVS
		Nitrite	---	0.5	Silver	TVS	TVS
		Phosphorus	---	0.17	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

\*Uranium(acute) = See 38.5(3) for details.  
\*Uranium(chronic) = See 38.5(3) for details.

17a. Arvada Reservoir.

COSPCL17A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Cold 2 Recreation E Water Supply DUWS	Temperature °C	CLL CLL	Arsenic	340	---	
			<b>acute</b> <b>chronic</b>	Arsenic(T)	---	0.02	
<b>Qualifiers:</b>		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
<b>Water + Fish Standards</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (ug/L)	---	8	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
			<b>Inorganic (mg/L)</b>		Copper	TVS	TVS
			<b>acute</b> <b>chronic</b>	Iron	---	WS	
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	10	---	Molybdenum(T)	---	150
		Nitrite	---	0.05	Nickel	TVS	TVS
		Phosphorus	---	0.025	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

\*Uranium(acute) = See 38.5(3) for details.  
\*Uranium(chronic) = See 38.5(3) for details.

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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

17b. Mainstem of Ralston Creek, including all tributaries and wetlands, from the source to the inlet of Arvada Reservoir.							
COSPCL17B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Water + Fish Standards</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
Expiration Date of 12/31/2024			acute	chronic	Iron	---	WS
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Iron(T)	---	1000
*Uranium(chronic) = See 38.5(3) for details.		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	10	---	Molybdenum(T)	---	150
		Nitrite	---	0.05	Nickel	TVS	TVS
		Phosphorus	---	0.11	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

18a. Mainstem of Ralston Creek, including all tributaries and wetlands, from the outlet of Arvada Reservoir to the confluence with Clear Creek.							
COSPCL18A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024			acute	chronic	Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = 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

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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

18b. Mainstem of Leyden Creek and Van Bibber Creek from their source to their confluence with Ralston Creek. Mainstem of Little Dry Creek from its source to its confluence with Clear Creek.													
COSPCL18B	Classifications	Physical and Biological			Metals (ug/L)								
Designation	Agriculture Aq Life Warm 2 Recreation E Water Supply	DM	MWAT	acute      chronic									
UP		acute	chronic	Temperature °C	WS-II	WS-II	Arsenic	340	---				
		D.O. (mg/L)	---	5.0				Arsenic(T)	---	0.02-10 <sup>A</sup>			
<b>Qualifiers:</b>		pH	6.5 - 9.0	---				Cadmium	TVS	TVS			
<b>Other:</b>		*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.			chlorophyll a (mg/m <sup>2</sup> )	---	150				Cadmium(T)	5.0	---
					E. Coli (per 100 mL)	---	126				Chromium III	---	TVS
		Inorganic (mg/L)						Chromium III(T)	50	---			
		acute	chronic				Chromium VI	TVS	TVS				
		Ammonia	TVS	TVS				Copper	TVS	TVS			
		Boron	---	0.75				Iron	---	WS			
		Chloride	---	250				Iron(T)	---	1000			
		Chlorine	0.019	0.011				Lead	TVS	TVS			
		Cyanide	0.005	---				Lead(T)	50	---			
		Nitrate	10	---				Manganese	TVS	TVS/WS			
		Nitrite	---	0.5				Mercury(T)	---	0.01			
		Phosphorus	---	0.17				Molybdenum(T)	---	150			
		Sulfate	---	WS				Nickel	TVS	TVS			
		Sulfide	---	0.002				Nickel(T)	---	100			
								Selenium	TVS	TVS			
								Silver	TVS	TVS			
								Uranium	varies*	varies*			
								Zinc	TVS	TVS			
19. All tributaries to Clear Creek, including wetlands, within the Mt. Evans Wilderness Area.													
COSPCL19	Classifications	Physical and Biological			Metals (ug/L)								
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute      chronic									
OW		acute	chronic	Temperature °C	CS-I	CS-I	Arsenic	340	---				
		D.O. (mg/L)	---	6.0				Arsenic(T)	---	0.02			
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0				Cadmium	TVS	TVS			
<b>Other:</b>		pH	6.5 - 9.0	---				Cadmium(T)	5.0	---			
<b>Other:</b>		*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.			chlorophyll a (mg/m <sup>2</sup> )	---	150				Chromium III	---	TVS
					E. Coli (per 100 mL)	---	126				Chromium III(T)	50	---
		Inorganic (mg/L)						Chromium VI	TVS	TVS			
		acute	chronic				Copper	TVS	TVS				
		Ammonia	TVS	TVS				Iron	---	WS			
		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	---	0.05				Molybdenum(T)	---	150			
		Phosphorus	---	0.11				Nickel	TVS	TVS			
		Sulfate	---	250				Nickel(T)	---	100			
		Sulfide	---	0.002				Selenium	TVS	TVS			
								Silver	TVS	TVS(tr)			
								Uranium	varies*	varies*			
								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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

20. Lakes and reservoirs in the Clear Creek system that are within the boundary of the Mt. Evans Wilderness Area.							
COSPCL20	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT		acute	chronic	
OW	Aq Life Cold 1 Recreation E Water Supply	CL	CL	Temperature °C	340	---	
		acute	chronic	Arsenic(T)	---	0.02	
		---	6.0	D.O. (mg/L)	TVS	TVS	
		---	7.0	D.O. (spawning)	5.0	---	
		6.5 - 9.0	---	pH	---	TVS	
		---	8*	chlorophyll a (ug/L)	50	---	
		---	126	E. Coli (per 100 mL)	TVS	TVS	
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
		TVS	TVS	Iron(T)	---	1000	
		---	0.75	Ammonia	TVS	TVS	
		---	250	Boron	50	---	
		0.019	0.011	Chloride	TVS	TVS/WS	
		0.005	---	Chlorine	---	0.01	
		10	---	Cyanide	---	150	
		---	0.05	Nitrate	TVS	TVS	
		---	0.025*	Nitrite	---	100	
		---	250	Phosphorus	TVS	TVS	
		---	0.002	Sulfate	TVS	TVS(tr)	
		---	0.002	Sulfide	varies*	varies*	
				Zinc	TVS	TVS	
21. Lakes and reservoirs in the Clear Creek system from sources to the Farmer's Highline Canal diversion in Golden, CO, except for listings in Segments 7b, 20, 22, and 25. Upper Long Lake.							
COSPCL21	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS*	DM	MWAT		acute	chronic	
Reviewable*	Aq Life Cold 1 Recreation E Water Supply DUWS*	varies*	varies*	Temperature °C	340	---	
		acute	chronic	Arsenic(T)	---	0.02	
		---	6.0	D.O. (mg/L)	TVS	TVS	
		---	7.0	D.O. (spawning)	5.0	---	
		6.5 - 9.0	---	pH	---	TVS	
		---	8*	chlorophyll a (ug/L)	50	---	
		---	126	E. Coli (per 100 mL)	TVS	TVS	
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
		TVS	TVS	Iron(T)	---	1000	
		---	0.75	Ammonia	TVS	TVS	
		---	250	Boron	50	---	
		0.019	0.011	Chloride	TVS	TVS/WS	
		0.005	---	Chlorine	---	0.01	
		10	---	Cyanide	---	150	
		---	0.05	Nitrate	TVS	TVS	
		---	0.025*	Nitrite	---	100	
		---	WS	Phosphorus	TVS	TVS	
		---	0.002	Sulfate	TVS	TVS(tr)	
		---	0.002	Sulfide	varies*	varies*	
				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 further details on applied standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

24. Lakes and reservoirs in the Clear Creek system from the Farmers Highline Canal diversion in Golden, Colorado to the confluence with the South Platte River, except for listings in Segments 17a, 21 and 23.

COSPCL24	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
	DUWS*	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Qualifiers:</b>		chlorophyll a (ug/L)	---	20*	Chromium III	---	TVS
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Temporary Modification(s):		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid			acute	chronic	Copper	TVS	TVS
Expiration Date of 12/31/2024		Ammonia	TVS	TVS	Iron	---	WS
*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.		Boron	---	0.75	Iron(T)	---	1000
*Classification: DUWS applies to Maple Grove Reservoir only.		Chloride	---	250	Lead	TVS	TVS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.		Chlorine	0.019	0.011	Lead(T)	50	---
*Uranium(acute) = See 38.5(3) for details.		Cyanide	0.005	---	Manganese	TVS	TVS/WS
*Uranium(chronic) = See 38.5(3) for details.		Nitrate	10	---	Mercury(T)	---	0.01
		Nitrite	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.083*	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

25. Guanella Reservoir (near Town of Empire, 39.758,-105.700)

COSPCL25	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	7.6
<b>Qualifiers:</b>		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
<b>Other:</b>		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		pH	6.5 - 9.0	---	Chromium III(T)	---	100
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		chlorophyll a (ug/L)	---	8*	Chromium VI	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		E. Coli (per 100 mL)	---	126	Copper	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.					Iron(T)	---	1000
		<b>Inorganic (mg/L)</b>			Lead	TVS	TVS
			acute	chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	---
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	TVS	TVS
		Phosphorus	---	0.025*			
		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 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Big Dry Creek Basin

1. Mainstem of Big Dry Creek, including all tributaries and wetlands, from the outlet of Standley Lake to the confluence with the South Platte River. Walnut Creek, including tributaries and wetlands, from the outlet of Great Western Reservoir to the confluence with Big Dry Creek.

COSPBD01	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	<b>DM</b>	<b>MWAT</b>		<b>acute</b>	<b>chronic</b>		
UP	Aq Life Warm 1	WS-I	WS-I	Temperature °C	340	---		
	Water Supply	<b>acute</b>	<b>chronic</b>		---	0.02-10 <sup>A</sup>		
	Recreation E	---	5.0	D.O. (mg/L)	---	100		
<b>Qualifiers:</b>		6.5 - 9.0	---	pH	TVS	TVS		
<b>Fish Ingestion Standards Do Not Apply</b>		---	150*	chlorophyll a (mg/m <sup>2</sup> )	5.0	---		
<b>Other:</b>		---	126	E. Coli (per 100 mL)	---	TVS		
*chlorophyll a (mg/m <sup>2</sup> )(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) = 19.1 ug/L from 11/1 - 3/31 TVS from 4/1 - 10/31. Refer to Section 38.6(4)(d). *Selenium(chronic) = 15 ug/L from 11/1 - 3/31 7.4 ug/L from 4/1 - 10/31. Refer to Section 38.6(4)(d). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		<b>Inorganic (mg/L)</b>			Chromium III	50	---	
		<b>acute</b>	<b>chronic</b>		Chromium III(T)	TVS	TVS	
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS	
		Boron	---	0.75	Copper	TVS	TVS	
		Chloride	---	250	Iron	---	WS	
		Chlorine	0.019	0.011	Iron(T)	---	1000	
		Cyanide	0.005	---	Lead	TVS	TVS	
		Nitrate	10	---	Lead(T)	50	---	
		Nitrite	---	4.5	Manganese	TVS	TVS/WS	
		Phosphorus	---	0.17*	Mercury(T)	---	0.01	
		Sulfate	---	WS	Molybdenum(T)	---	150	
		Sulfide	---	0.002	Nickel	TVS	TVS	
					Nickel(T)	---	100	
					Selenium	varies*	---	
					Selenium	---	varies*	
					Silver	TVS	TVS	
			Uranium	varies*	varies*			
			Zinc	TVS	TVS			

2. Standley Lake.

COSPBD02	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	<b>DM</b>	<b>MWAT</b>		<b>acute</b>	<b>chronic</b>		
Reviewable	Aq Life Warm 1	WL	WL	Temperature °C	340	---		
	Recreation E	<b>acute</b>	<b>chronic</b>		---	0.02		
	Water Supply	---	5.0	D.O. (mg/L)	---	4.0		
	DUWS	6.5 - 9.0	---	pH	TVS	TVS		
<b>Qualifiers:</b>		---	4.0*	chlorophyll a (ug/L)	5.0	---		
<b>Other:</b>		---	126	E. Coli (per 100 mL)	---	TVS		
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *chlorophyll a (ug/L)(chronic) = The trophic status of Standley Lake shall be maintained as mesotrophic as measured by a combination of common indicator parameters such as total phosphorus, chlorophyll a, secchi depth, and dissolved oxygen. Refer to Section 38.6(4)(e). *Uranium(acute) = See 38.5(3) for details. *Uranium(T)(chronic) = 3(t) Picocuries/Liter. See 38.6(4) for additional standards for segment 2.		<b>Inorganic (mg/L)</b>			Chromium III	50	---	
		<b>acute</b>	<b>chronic</b>		Chromium III(T)	TVS	TVS	
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS	
		Boron	---	0.75	Copper	TVS	TVS	
		Chloride	---	250	Iron	---	WS	
		Chlorine	0.019	0.011	Iron(T)	---	1000	
		Cyanide	0.005	---	Lead	TVS	TVS	
		Nitrate	10	---	Lead(T)	50	---	
		Nitrite	---	0.5	Manganese	TVS	TVS/WS	
		Phosphorus	---	---	Mercury(T)	---	0.01	
		Sulfate	---	WS	Molybdenum(T)	---	150	
		Sulfide	---	0.002	Nickel	TVS	TVS	
					Nickel(T)	---	100	
					Selenium	TVS	TVS	
					Silver	TVS	TVS	
					Uranium	varies*	---	
			Uranium(T)	---	3*			
			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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Big Dry Creek Basin

3. Great Western Reservoir.						
COSPBD03	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute chronic		
UP	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340 ---
	Recreation N		acute	chronic	Arsenic(T)	--- 100
	Water Supply	D.O. (mg/L)	---	5.0	Beryllium(T)	--- 100
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium	TVS TVS
<b>Other:</b>		chlorophyll a (ug/L)	---	---	Chromium III	TVS TVS
*Uranium(acute) = See 38.5(3) for details. *Uranium(T)(chronic) = 4(t) Picocuries/Liter. See 38.6(4) for additional standards for segment 3.		E. Coli (per 100 mL)	---	630	Chromium III(T)	--- 100
		<b>Inorganic (mg/L)</b>			Chromium VI	TVS TVS
			acute	chronic	Copper	TVS TVS
		Ammonia	TVS	TVS	Iron(T)	--- 1000
		Boron	---	0.75	Lead	TVS TVS
		Chloride	---	---	Manganese	TVS TVS
		Chlorine	0.019	0.011	Mercury(T)	--- 0.01
		Cyanide	0.005	---	Molybdenum(T)	--- 150
		Nitrate	100	---	Nickel	TVS TVS
		Nitrite	---	2.7	Selenium	TVS TVS
		Phosphorus	---	---	Silver	TVS TVS
		Sulfate	---	---	Uranium	varies* ---
		Sulfide	---	0.002	Uranium(T)	--- 4*
					Zinc	TVS TVS
		4a. Mainstem and all tributaries to Woman and Walnut Creeks from sources to Standley Lake and Great Western Reservoir, respectively, except for listings in Segments 4b and 5a.				
COSPBD04A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute chronic		
UP	Aq Life Warm 2	Temperature °C	WS-I	WS-I	Arsenic	340 ---
	Recreation E		acute	chronic	Arsenic(T)	--- 0.02-10 <sup>A</sup>
	Water Supply	D.O. (mg/L)	---	5.0	Beryllium(T)	--- 4.0
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium	TVS TVS
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0 ---
*Uranium(acute) = See 38.5(3) for details. *Uranium(T)(chronic) = See 38.6(4) for additional standards for segment 4a.		E. Coli (per 100 mL)	---	126	Chromium III	--- TVS
		<b>Inorganic (mg/L)</b>			Chromium III(T)	50 ---
			acute	chronic	Chromium VI	TVS TVS
		Ammonia	TVS	TVS	Copper	TVS TVS
		Boron	---	0.75	Iron(T)	--- 1000
		Chloride	---	---	Lead	TVS TVS
		Chlorine	0.019	0.011	Lead(T)	50 ---
		Cyanide	0.005	---	Manganese	TVS TVS
		Nitrate	10	---	Mercury(T)	--- 0.01
		Nitrite	---	0.5	Molybdenum(T)	--- 150
		Phosphorus	---	0.17	Nickel	TVS TVS
		Sulfate	---	---	Nickel(T)	--- 100
		Sulfide	---	0.002	Selenium	TVS TVS
					Silver	TVS TVS
					Uranium	varies* ---
			Uranium(T)	--- 16.8*		
			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 further details on applied standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Big Dry Creek Basin

5b. All lakes and reservoirs from the western edge of the Central Operable Unit to the eastern boundary of the Central Operable Unit and Pond C-2 on Woman Creek.							
COSPBD05B	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT		acute	chronic	
UP	Agriculture						
	Aq Life Warm 2	WL	WL	Arsenic	340	---	
	Recreation N	<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02-10 <sup>A</sup>	
	Water Supply			D.O. (mg/L)	---	5.0	
<b>Qualifiers:</b>				pH	6.5 - 9.0	---	
<b>Other:</b>				chlorophyll a (ug/L)	---	20*	
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 38.5(3) for details. *Uranium(T)(chronic) = See 38.6(4) for additional standards for segment 5b.		<b>Inorganic (mg/L)</b>			E. Coli (per 100 mL)	---	630
						<b>acute</b>	<b>chronic</b>
		Ammonia	TVS	TVS	Chromium III	---	TVS
		Boron	---	0.75	Chromium III(T)	50	---
		Chloride	---	---	Chromium VI	TVS	TVS
		Chlorine	0.019	0.011	Copper	TVS	TVS
		Cyanide	0.005	---	Iron(T)	---	1000
		Nitrate	10	---	Lead	TVS	TVS
		Nitrite	---	0.5	Lead(T)	50	---
		Phosphorus	---	0.083*	Manganese	TVS	TVS
		Sulfate	---	---	Mercury(T)	---	0.01
		Sulfide	---	0.002	Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
			Silver	TVS	TVS		
			Uranium	varies*	---		
			Uranium(T)	---	16.8*		
			Zinc	TVS	TVS		

  

6. Upper Big Dry Creek and South Upper Big Dry Creek, from their source to Standley Lake.							
COSPBD06	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT		acute	chronic	
UP	Agriculture						
	Aq Life Warm 2	WS-I	WS-I	Arsenic	340	---	
	Recreation E	<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02-10 <sup>A</sup>	
	Water Supply			D.O. (mg/L)	---	5.0	
<b>Qualifiers:</b>				pH	6.5 - 9.0	---	
<b>Other:</b>				chlorophyll a (mg/m <sup>2</sup> )	---	150	
*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		<b>Inorganic (mg/L)</b>			E. Coli (per 100 mL)	---	126
						<b>acute</b>	<b>chronic</b>
		Ammonia	TVS	TVS	Chromium III	---	TVS
		Boron	---	0.75	Chromium III(T)	50	---
		Chloride	---	250	Chromium VI	TVS	TVS
		Chlorine	0.019	0.011	Copper	TVS	TVS
		Cyanide	0.005	---	Iron	---	WS
		Nitrate	10	---	Iron(T)	---	1000
		Nitrite	---	0.5	Lead	TVS	TVS
		Phosphorus	---	0.17	Lead(T)	50	---
		Sulfate	---	WS	Manganese	TVS	TVS/WS
		Sulfide	---	0.002	Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
			Selenium	TVS	TVS		
			Silver	TVS	TVS		
			Uranium	varies*	varies*		
			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 further details on applied standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Boulder Creek Basin

1. All tributaries to Boulder Creek, including all wetlands, within the Indian Peaks and James Peak Wilderness Areas.							
COSPBO01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
		<b>acute</b>	<b>chronic</b>	Iron	---	WS	
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	10	---	Molybdenum(T)	---	150
		Nitrite	---	0.05	Nickel	TVS	TVS
		Phosphorus	---	0.11	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

  

2a. Mainstem of Boulder Creek, including all tributaries and wetlands, from the boundary of the Indian Peaks Wilderness Area to a point immediately below the confluence with North Boulder Creek, except for the specific listings in Segment 3.							
COSPBO02A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
		<b>acute</b>	<b>chronic</b>	Iron	---	WS	
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	10	---	Molybdenum(T)	---	150
		Nitrite	---	0.05	Nickel	TVS	TVS
		Phosphorus	---	0.11*	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Boulder Creek Basin

2b. Mainstem of Boulder Creek, including all tributaries and wetlands, from a point immediately below the confluence with North Boulder Creek to a point immediately above the confluence with South Boulder Creek.										
COSPBO02B	Classifications	Physical and Biological			Metals (ug/L)					
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute      chronic						
Reviewable		acute	chronic	Temperature °C	CS-II	CS-II	Arsenic	340	---	
<b>Qualifiers:</b>		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	Chromium III	---	TVS
<b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Chromium III(T)	50	---	Chromium VI	TVS	TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium VI	TVS	TVS	Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS	Iron(T)	---	1000
		acute	chronic	Ammonia	TVS	TVS	Lead	TVS	TVS	Lead(T)
		Boron	---	0.75	Manganese	TVS	TVS/WS	Mercury(T)	---	0.01
		Chloride	---	250	Molybdenum(T)	---	150	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Nickel(T)	---	100	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)	Uranium	varies*	varies*
		Nitrate	10	---	Zinc	TVS	TVS			
		Nitrite	---	0.05						
		Phosphorus	---	0.11*						
		Sulfate	---	WS						
		Sulfide	---	0.002						

  

3. Mainstem of Middle Boulder Creek, including all tributaries and wetlands, from the source to the outlet of Barker Reservoir, except for specific listings in Segment 1.										
COSPBO03	Classifications	Physical and Biological			Metals (ug/L)					
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute      chronic						
Reviewable		acute	chronic	Temperature °C	CS-I	CS-I	Arsenic	340	---	
<b>Qualifiers:</b>		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	Chromium III	---	TVS
<b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Chromium III(T)	50	---	Chromium VI	TVS	TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium VI	TVS	TVS	Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS	Iron(T)	---	1000
		acute	chronic	Ammonia	TVS	TVS	Lead	TVS	TVS	Lead(T)
		Boron	---	0.75	Manganese	TVS	TVS/WS	Mercury(T)	---	0.01
		Chloride	---	250	Molybdenum(T)	---	150	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Nickel(T)	---	100	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)	Uranium	varies*	varies*
		Nitrate	10	---	Zinc	TVS	TVS			
		Nitrite	---	0.05						
		Phosphorus	---	0.11*						
		Sulfate	---	WS						
		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 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Boulder Creek Basin

4a. Mainstem of South Boulder Creek, including all tributaries and wetlands, from the source to the outlet of Gross Reservoir except for specific listings in Segment 1.							
COSPBO04A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
Water Supply		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024					Iron	---	WS
*Uranium(acute) = See 38.5(3) for details.					Iron(T)	---	1000
*Uranium(chronic) = See 38.5(3) for details.					Lead	TVS	TVS
		<b>Inorganic (mg/L)</b>			Lead(T)	50	---
			acute	chronic	Manganese	TVS	TVS/WS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	250	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Nickel(T)	---	100
		Cyanide	0.005	---	Selenium	TVS	TVS
		Nitrate	10	---	Silver	TVS	TVS(tr)
		Nitrite	---	0.05	Uranium	varies*	varies*
		Phosphorus	---	0.11	Zinc	TVS	TVS
		Sulfate	---	WS			
		Sulfide	---	0.002			

4b. Mainstem of South Boulder Creek, including all tributaries and wetlands, from the outlet of Gross Reservoir to South Boulder Road, except for specific listings in Segments 4c and 4d.

COSPBO04B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
Water Supply		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024					Iron	---	WS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).					Iron(T)	---	1000
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).					Lead	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Lead(T)	50	---
*Uranium(chronic) = See 38.5(3) for details.		Boron	---	0.75	Manganese	TVS	TVS/WS
		Chloride	---	250	Mercury(T)	---	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	10	---	Nickel(T)	---	100
		Nitrite	---	0.05	Selenium	TVS	TVS
		Phosphorus	---	0.11*	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Boulder Creek Basin

4c. Mainstem of Cowdrey Drainage from the source below Cowdrey Reservoir #2 to the Davidson Ditch.							
COSPBO04C	Classifications	Physical and Biological			Metals (ug/L)		
Designation			DM	MWAT			
UP	Agriculture Aq Life Warm 2 Recreation E Water Supply	Temperature °C	WS-II	WS-II	Arsenic	acute 340	chronic ---
Qualifiers:			acute	chronic	Arsenic(T)	---	0.02-10 <sup>A</sup>
Other:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
		Inorganic (mg/L)			Chromium VI	TVS	TVS
			acute	chronic	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---	WS
		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

  

4d. Mainstem of Cowdrey Drainage from immediately downstream of the Davidson Ditch to the confluence with South Boulder Creek.							
COSPBO04D	Classifications	Physical and Biological			Metals (ug/L)		
Designation			DM	MWAT			
UP	Agriculture Aq Life Warm 2 Recreation E Water Supply	Temperature °C	WS-II	WS-II	Arsenic	acute 340	chronic ---
Qualifiers:			acute	chronic	Arsenic(T)	---	0.02-10 <sup>A</sup>
Other:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
		Inorganic (mg/L)			Chromium VI	TVS	TVS
			acute	chronic	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---	WS
		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

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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Boulder Creek Basin

5. Mainstem of South Boulder Creek from South Boulder Road to the confluence with Boulder Creek.							
COSPBO05	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Warm 1 Recreation E Water Supply	DM	MWAT		acute	chronic	
Reviewable		acute	chronic	Temperature °C	340	---	
Qualifiers:		D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.	Inorganic (mg/L)			Cadmium	TVS	TVS
		acute	chronic	pH	5.0	---	
		acute	chronic	chlorophyll a (mg/m <sup>2</sup> )	---	---	
		acute	chronic	E. Coli (per 100 mL)	---	126	
		acute	chronic		Chromium III	---	TVS
		acute	chronic		Chromium III(T)	50	---
		acute	chronic		Chromium VI	TVS	TVS
		acute	chronic		Copper	TVS	TVS
		acute	chronic	Ammonia	TVS	TVS	
		acute	chronic	Boron	---	0.75	
		acute	chronic	Chloride	---	250	
		acute	chronic	Chlorine	0.019	0.011	
		acute	chronic	Cyanide	0.005	---	
		acute	chronic	Nitrate	10	---	
		acute	chronic	Nitrite	---	0.5	
		acute	chronic	Phosphorus	---	---	
		acute	chronic	Sulfate	---	WS	
		acute	chronic	Sulfide	---	0.002	
		acute	chronic		Selenium	TVS	TVS
		acute	chronic		Silver	TVS	TVS
	acute	chronic		Uranium	varies*	varies*	
	acute	chronic		Zinc	TVS	TVS	
6. Mainstem of Coal Creek, including all tributaries and wetlands, from the source to Highway 93.							
COSPBO06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 2 Recreation E Water Supply	DM	MWAT		acute	chronic	
Reviewable		acute	chronic	Temperature °C	340	---	
Qualifiers:		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02-10 <sup>A</sup>
Other:	*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.			D.O. (spawning)	5.0	---	
		acute	chronic	pH	6.5 - 9.0	---	
		acute	chronic	chlorophyll a (mg/m <sup>2</sup> )	---	150	
		acute	chronic	E. Coli (per 100 mL)	---	126	
		acute	chronic		Chromium III	---	TVS
		acute	chronic		Chromium III(T)	50	---
		acute	chronic		Chromium VI	TVS	TVS
		acute	chronic		Copper	TVS	TVS
		acute	chronic		Iron	---	WS
		acute	chronic		Iron(T)	---	1000
		acute	chronic	Ammonia	TVS	TVS	
		acute	chronic	Boron	---	0.75	
		acute	chronic	Chloride	---	250	
		acute	chronic	Chlorine	0.019	0.011	
		acute	chronic	Cyanide	0.005	---	
		acute	chronic	Nitrate	10	---	
		acute	chronic	Nitrite	---	0.05	
		acute	chronic	Phosphorus	---	0.11	
		acute	chronic	Sulfate	---	WS	
		acute	chronic	Sulfide	---	0.002	
	acute	chronic		Selenium	TVS	TVS	
	acute	chronic		Silver	TVS	TVS(tr)	
	acute	chronic		Uranium	varies*	varies*	
	acute	chronic		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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Boulder Creek Basin

7a. Mainstem of Coal Creek from Highway 93 to Highway 36 (Boulder Turnpike).							
COSPBO07A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Warm 1 Recreation E Water Supply	DM	MWAT	acute	chronic		
Reviewable		Temperature °C	WS-II	WS-II	Arsenic	340	---
			acute	chronic	Arsenic(T)	---	0.02
<b>Qualifiers:</b>	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
<b>Other:</b>	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024	chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS	
*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.	E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---	
	Inorganic (mg/L)			Chromium VI	TVS	TVS	
		acute	chronic	Copper	TVS	TVS	
	Ammonia	TVS	TVS	Iron	---	WS	
	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	

7b. Mainstem of Coal Creek from Highway 36 to the confluence with Boulder Creek.							
COSPBO07B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Warm 1 Recreation E Water Supply	DM	MWAT	acute	chronic		
Reviewable		Temperature °C	WS-I	WS-I	Arsenic	340	---
			acute	chronic	Arsenic(T)	---	0.02
<b>Qualifiers:</b>	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
<b>Other:</b>	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024	chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS	
*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.	E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---	
	Inorganic (mg/L)			Chromium VI	TVS	TVS	
		acute	chronic	Copper	TVS	TVS	
	Ammonia	TVS	TVS	Iron	---	WS	
	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	---	---	Nickel	TVS	TVS	
	Sulfate	---	WS	Nickel(T)	---	100	
	Sulfide	---	0.002	Selenium	TVS	TVS	
				Silver	TVS	TVS	
				Uranium	varies*	varies*	
				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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Boulder Creek Basin

8. All tributaries to South Boulder Creek, including all wetlands from South Boulder Road to the confluence with Boulder Creek and all tributaries to Coal Creek, including all wetlands from Highway 93 to the confluence with Boulder Creek.						
COSPBO08	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute      chronic		
UP	Aq Life Warm 1	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      ---
Other:		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III	---      TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50      ---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS      TVS
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS      TVS	
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).		Ammonia	TVS	TVS	Iron	---      WS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Boron	---	0.75	Iron(T)	---      1000
*Uranium(acute) = See 38.5(3) for details.		Chloride	---	250	Lead	TVS      TVS
*Uranium(chronic) = See 38.5(3) for details.		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
9. Mainstem of Boulder Creek from a point immediately above the confluence with South Boulder Creek to the confluence with Coal Creek.						
COSPBO09	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute      chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340      ---
	Recreation E	acute	chronic	Arsenic(T)	---      0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS      TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0      ---
Other:		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---      TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50      ---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS      TVS
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS      TVS	
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Iron	---      WS
*Uranium(chronic) = 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	---	---	Nickel	TVS      TVS
		Sulfate	---	WS	Nickel(T)	---      100
		Sulfide	---	0.002	Selenium	TVS      TVS
					Silver	TVS      TVS
					Uranium	varies*      varies*
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Boulder Creek Basin

10. Mainstem of Boulder Creek from the confluence with Coal Creek to the confluence with St. Vrain Creek.							
COSPBO10	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Warm 1 Recreation E Water Supply	DM	MWAT	acute	chronic		
Reviewable		Temperature °C	WS-II	WS-II	Arsenic	340	---
		acute	chronic	Arsenic(T)	---	0.02	
	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
<b>Qualifiers:</b>	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
<b>Other:</b>	chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS	
Temporary Modification(s):	E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---	
Arsenic(chronic) = hybrid	<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS	
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS	TVS	
*Uranium(acute) = See 38.5(3) for details.	Ammonia	TVS	TVS	Iron	---	WS	
*Uranium(chronic) = 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	---	---	Nickel	TVS	TVS	
	Sulfate	---	WS	Nickel(T)	---	100	
	Sulfide	---	0.002	Selenium	TVS	TVS	
				Silver	TVS	TVS	
				Uranium	varies*	varies*	
				Zinc	TVS	TVS	

11. All tributaries to Boulder Creek, including all wetlands from a point immediately above the confluence with South Boulder Creek to the confluence with St. Vrain Creek, except for specific listings in Segments 5, 7a and 7b.

11. All tributaries to Boulder Creek, including all wetlands from a point immediately above the confluence with South Boulder Creek to the confluence with St. Vrain Creek, except for specific listings in Segments 5, 7a and 7b.							
COSPBO11	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Warm 1 Recreation E Water Supply	DM	MWAT	acute	chronic		
Reviewable		Temperature °C	WS-II	WS-II	Arsenic	340	---
		acute	chronic	Arsenic(T)	---	0.02	
	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
<b>Qualifiers:</b>	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
<b>Other:</b>	chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS	
Temporary Modification(s):	E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---	
Arsenic(chronic) = hybrid	<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS	
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS	TVS	
*Uranium(acute) = See 38.5(3) for details.	Ammonia	TVS	TVS	Iron	---	WS	
*Uranium(chronic) = 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	---	---	Nickel	TVS	TVS	
	Sulfate	---	WS	Nickel(T)	---	100	
	Sulfide	---	0.002	Selenium	TVS	TVS	
				Silver	TVS	TVS	
				Uranium	varies*	varies*	
				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 further details on applied standards.

## REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Boulder Creek Basin

12. Deleted.						
COSPBO12	Classifications	Physical and Biological			Metals (ug/L)	
Designation		DM	MWAT	acute	chronic	
Qualifiers:		acute	chronic			
Other:		Inorganic (mg/L)				
		acute	chronic			
13. All lakes and reservoirs tributary to Boulder Creek that are within the boundary of the Indian Peaks and James Peak Wilderness Areas.						
COSPBO13	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
OW	Aq Life Cold 1	CL	CL	340	---	---
	Recreation E	acute	chronic	---	0.02	
	Water Supply	---	6.0	TVS	TVS	
Qualifiers:		---	7.0	5.0	---	
Other:		6.5 - 9.0	---	---	TVS	
		---	8*	50	---	
		---	126	TVS	TVS	
		Inorganic (mg/L)		TVS	TVS	
		acute	chronic	---	WS	
		TVS	TVS	---	1000	
		---	0.75	TVS	TVS	
		---	250	50	---	
		0.019	0.011	TVS	TVS/WS	
		0.005	---	---	0.01	
		10	---	---	150	
		---	0.05	TVS	TVS	
		---	0.025*	---	100	
		---	WS	TVS	TVS	
		---	0.002	TVS	TVS(tr)	
		---	0.002	varies*	varies*	
		---	---	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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Boulder Creek Basin

14. All lakes and reservoirs tributary to Boulder Creek from the source to a point immediately above the South Boulder Creek confluence, except as specified in Segment 13. This segment includes Barker and Lakewood Reservoir.

COSPBO14	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
	DUWS*	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
<b>Other:</b>		chlorophyll a (ug/L)	---	8*	Chromium III(T)	50	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
Expiration Date of 12/31/2024			acute	chronic	Iron	---	WS
*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.		Ammonia	TVS	TVS	Iron(T)	---	1000
*Classification: DUWS applies to Lakewood Reservoir only.		Boron	---	0.75	Lead	TVS	TVS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.		Chloride	---	250	Lead(T)	50	---
*Uranium(acute) = See 38.5(3) for details.		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
*Uranium(chronic) = See 38.5(3) for details.		Cyanide	0.005	---	Mercury(T)	---	0.01
*Temperature =		Nitrate	10	---	Molybdenum(T)	---	150
DM and MWAT=CL,CLL from 1/1-3/31		Nitrite	---	0.05	Nickel	TVS	TVS
Barker Reservoir		Phosphorus	---	0.025*	Nickel(T)	---	100
DM=CL and MWAT=16.6 from 4/1-12/31		Sulfate	---	WS	Selenium	TVS	TVS
All others		Sulfide	---	0.002	Silver	TVS	TVS(tr)
DM and MWAT=CL,CLL from 4/1-12/31					Uranium	varies*	varies*
					Zinc	TVS	TVS

15. All lakes and reservoirs tributary to South Boulder Creek from the source to Highway 93. All lakes and reservoirs tributary to Coal Creek from the source to Highway 93 except for specific listings in segments 13 and 18.

COSPBO15	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 2	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02-10 <sup>A</sup>
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
	DUWS*	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
<b>Other:</b>		chlorophyll a (ug/L)	---	8*	Chromium III(T)	50	---
*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Classification: DUWS applies to Kossler Lake only.		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.			acute	chronic	Iron	---	WS
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Iron(T)	---	1000
*Uranium(chronic) = See 38.5(3) for details.		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	10	---	Molybdenum(T)	---	150
		Nitrite	---	0.05	Nickel	TVS	TVS
		Phosphorus	---	0.025*	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Boulder Creek Basin

16. All lakes and reservoirs tributary to South Boulder Creek system from Highway 93 to the confluence with Boulder Creek. All lakes and reservoirs tributary to Coal Creek system from Highway 93 to the confluence with Boulder Creek.

COSPBO16	Classifications	Physical and Biological			Metals (ug/L)		
<b>Designation</b>	Agriculture		<b>DM</b>	<b>MWAT</b>		<b>acute</b>	<b>chronic</b>
Reviewable	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02-10 <sup>A</sup>
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (ug/L)	---	---	Chromium III	---	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
			<b>Inorganic (mg/L)</b>		Chromium VI	TVS	TVS
			<b>acute</b>	<b>chronic</b>	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---	WS
		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	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

17. All lakes and reservoirs tributary to Boulder Creek from a point immediately below the confluence with South Boulder Creek to the confluence with St. Vrain Creek, except as specified in Segments 15 and 16.

COSPBO17	Classifications	Physical and Biological			Metals (ug/L)		
<b>Designation</b>	Agriculture		<b>DM</b>	<b>MWAT</b>		<b>acute</b>	<b>chronic</b>
Reviewable	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
	DUWS*	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Qualifiers:</b>		chlorophyll a (ug/L)	---	---	Chromium III	---	TVS
<b>Water + Fish Standards</b>		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
<b>Other:</b>			<b>Inorganic (mg/L)</b>		Chromium VI	TVS	TVS
			<b>acute</b>	<b>chronic</b>	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---	WS
		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	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Boulder Creek Basin

18. Gross Reservoir.						
COSPBO18	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	varies*	varies*	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	6.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		D.O. (spawning)	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	Chromium III	---	TVS
		chlorophyll a (ug/L)	8*	Chromium III(T)	50	---
		E. Coli (per 100 mL)	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	Iron(T)	---	1000
		Boron	0.75	Lead	TVS	TVS
		Chloride	250	Lead(T)	50	---
		Chlorine	0.019	Manganese	TVS	TVS/WS
		Cyanide	0.005	Mercury(T)	---	0.01
		Nitrate	10	Molybdenum(T)	---	150
		Nitrite	0.05	Nickel	TVS	TVS
		Phosphorus	0.025*	Nickel(T)	---	100
		Sulfate	WS	Selenium	TVS	TVS
		Sulfide	0.002	Silver	TVS	TVS(tr)
				Uranium	varies*	varies*
				Zinc	TVS	TVS

\*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.  
 \*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.  
 \*Uranium(acute) = See 38.5(3) for details.  
 \*Uranium(chronic) = See 38.5(3) for details.  
 \*Temperature =  
 DM and MWAT=CLL from 1/1-3/31  
 DM=22.4 and MWAT=19.4 from 4/1-12/31

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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## St. Vrain Creek Basin

1. All tributaries to St. Vrain Creek, including all wetlands, which are within the Indian Peaks Wilderness Area and Rocky Mountain National Park.						
COSPSV01	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
OW	Aq Life Cold 1	CS-I	CS-I	Arsenic	340	---
	Recreation E	<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02
	Water Supply			D.O. (mg/L)	---	6.0
<b>Qualifiers:</b>				D.O. (spawning)	---	7.0
<b>Other:</b>				pH	6.5 - 9.0	---
Temporary Modification(s):				chlorophyll a (mg/m <sup>2</sup> )	---	150
Arsenic(chronic) = hybrid				E. Coli (per 100 mL)	---	126
Expiration Date of 12/31/2024				<b>Inorganic (mg/L)</b>		
*Uranium(acute) = See 38.5(3) for details.				<b>acute</b>	<b>chronic</b>	
*Uranium(chronic) = See 38.5(3) for details.				Ammonia	TVS	TVS
				Boron	---	0.75
				Chloride	---	250
				Chlorine	0.019	0.011
				Cyanide	0.005	---
				Nitrate	10	---
				Nitrite	---	0.05
				Phosphorus	---	0.11
				Sulfate	---	WS
				Sulfide	---	0.002
				Iron	---	WS
				Iron(T)	---	1000
				Lead	TVS	TVS
				Lead(T)	50	---
				Manganese	TVS	TVS/WS
				Mercury(T)	---	0.01
				Molybdenum(T)	---	150
				Nickel	TVS	TVS
				Nickel(T)	---	100
				Selenium	TVS	TVS
				Silver	TVS	TVS(tr)
				Uranium	varies*	varies*
				Zinc	TVS	TVS
2a. Mainstem of St. Vrain Creek, including all tributaries and wetlands, from the boundary of the Indian Peaks Wilderness Area and Rocky Mountain National Park to the eastern boundary of Roosevelt National Forest.						
COSPSV02A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	CS-I	CS-I	Arsenic	340	---
	Recreation E	<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02
	Water Supply			D.O. (mg/L)	---	6.0
<b>Qualifiers:</b>				D.O. (spawning)	---	7.0
<b>Other:</b>				pH	6.5 - 9.0	---
Temporary Modification(s):				chlorophyll a (mg/m <sup>2</sup> )	---	150*
Arsenic(chronic) = hybrid				E. Coli (per 100 mL)	---	126
Expiration Date of 12/31/2024				<b>Inorganic (mg/L)</b>		
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).				<b>acute</b>	<b>chronic</b>	
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).				Ammonia	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.				Boron	---	0.75
*Uranium(chronic) = See 38.5(3) for details.				Chloride	---	250
				Chlorine	0.019	0.011
				Cyanide	0.005	---
				Nitrate	10	---
				Nitrite	---	0.05
				Phosphorus	---	0.11*
				Sulfate	---	WS
				Sulfide	---	0.002
				Iron	---	WS
				Iron(T)	---	1000
				Lead	TVS	TVS
				Lead(T)	50	---
				Manganese	TVS	TVS/WS
				Mercury(T)	---	0.01
				Molybdenum(T)	---	150
				Nickel	TVS	TVS
				Nickel(T)	---	100
				Selenium	TVS	TVS
				Silver	TVS	TVS(tr)
				Uranium	varies*	varies*
				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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## St. Vrain Creek Basin

2b. Mainstem of St. Vrain Creek, including all tributaries and wetlands, from the eastern boundary of Roosevelt National Forest to Hygiene Road.							
COSPSV02B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT				
Reviewable	Aq Life Cold 1	acute	chronic	acute	chronic		
	Recreation E	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Water Supply				Arsenic(T)	---	0.02
<b>Qualifiers:</b>	<b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	10	---	Molybdenum(T)	---	150
		Nitrite	---	0.05	Nickel	TVS	TVS
		Phosphorus	---	0.11*	Nickel(T)	---	100
Sulfate	---	WS	Selenium	TVS	TVS		
Sulfide	---	0.002	Silver	TVS	TVS(tr)		
			Uranium	varies*	varies*		
			Zinc	TVS	TVS		
3. Mainstem of St. Vrain Creek from Hygiene Road to the confluence with the South Platte River.							
COSPSV03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT				
Reviewable	Aq Life Warm 1	acute	chronic	acute	chronic		
	Water Supply	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Recreation E				Arsenic(T)	---	0.02
<b>Qualifiers:</b>	<b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
		Inorganic (mg/L)			Chromium VI	TVS	TVS
		acute	chronic	Copper	TVS	TVS	
		Ammonia	TVS	TVS	Iron	---	WS
		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	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
Sulfide	---	0.002	Selenium	TVS	TVS		
			Silver	TVS	TVS		
			Uranium	varies*	varies*		
			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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## St. Vrain Creek Basin

4a. Mainstem of Left Hand Creek, including all tributaries and wetlands, from the source to a point immediately below the confluence with James Creek, except for specific listings in Segment 4b.

COSPSV04A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute      chronic			
UP		Temperature °C	CS-I	CS-I	Arsenic	340	---
		acute	chronic	Arsenic(T)	---	0.02	
	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
<b>Qualifiers:</b>	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
<b>Other:</b>	pH	6.5 - 9.0	---	Chromium III	---	TVS	
Temporary Modification(s):	chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---	
Arsenic(chronic) = hybrid	E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
Expiration Date of 12/31/2024				Copper	TVS	TVS	
	Inorganic (mg/L)			Iron	---	WS	
	acute	chronic		Iron(T)	---	1000	
*Uranium(acute) = See 38.5(3) for details.	Ammonia	TVS	TVS	Lead	TVS	TVS	
*Uranium(chronic) = See 38.5(3) for details.	Boron	---	0.75	Lead(T)	50	---	
	Chloride	---	250	Manganese	TVS	TVS/WS	
	Chlorine	0.019	0.011	Mercury(T)	---	0.01	
	Cyanide	0.005	---	Molybdenum(T)	---	150	
	Nitrate	10	---	Nickel	TVS	TVS	
	Nitrite	---	0.05	Nickel(T)	---	100	
	Phosphorus	---	0.11	Selenium	TVS	TVS	
	Sulfate	---	WS	Silver	TVS	TVS(tr)	
	Sulfide	---	0.002	Uranium	varies*	varies*	
				Zinc	TVS	TVS	

4b. Mainstem of James Creek, including all tributaries and wetlands, from the source to the confluence with Left Hand Creek.

COSPSV04B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute      chronic			
Reviewable		Temperature °C	CS-I	CS-I	Arsenic	340	---
		acute	chronic	Arsenic(T)	---	0.02	
	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
<b>Qualifiers:</b>	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
<b>Other:</b>	pH	6.5 - 9.0	---	Chromium III	---	TVS	
Temporary Modification(s):	chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---	
Arsenic(chronic) = hybrid	E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
Expiration Date of 12/31/2024				Copper	TVS	TVS	
	Inorganic (mg/L)			Iron	---	WS	
	acute	chronic		Iron(T)	---	1000	
*Uranium(acute) = See 38.5(3) for details.	Ammonia	TVS	TVS	Lead	TVS	TVS	
*Uranium(chronic) = See 38.5(3) for details.	Boron	---	0.75	Lead(T)	50	---	
	Chloride	---	250	Manganese	TVS	TVS/WS	
	Chlorine	0.019	0.011	Mercury(T)	---	0.01	
	Cyanide	0.005	---	Molybdenum(T)	---	150	
	Nitrate	10	---	Nickel	TVS	TVS	
	Nitrite	---	0.05	Nickel(T)	---	100	
	Phosphorus	---	0.11	Selenium	TVS	TVS	
	Sulfate	---	WS	Silver	TVS	TVS(tr)	
	Sulfide	---	0.002	Uranium	varies*	varies*	
				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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## St. Vrain Creek Basin

4c. Mainstem of Left Hand Creek, including all tributaries and wetlands, from a point immediately below the confluence with James Creek to Highway 36.							
COSPSV04C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute      chronic			
Reviewable	Aq Life Cold 1 Recreation E Water Supply	CS-II	CS-II	Temperature °C	Arsenic	340	---
Qualifiers:		acute	chronic	D.O. (mg/L)	Arsenic(T)	---	0.02
Other:		---	6.0	D.O. (spawning)	Cadmium	TVS	TVS
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		6.5 - 9.0	---	pH	Chromium III	---	TVS
		---	150	chlorophyll a (mg/m <sup>2</sup> )	Chromium III(T)	50	---
		---	126	E. Coli (per 100 mL)	Chromium VI	TVS	TVS
Qualifiers:		Inorganic (mg/L)			Copper	TVS	TVS
Other:		acute	chronic	Iron	Iron(T)	---	1000
		TVS	TVS	Ammonia	Lead	TVS	TVS
		---	0.75	Boron	Lead(T)	50	---
		---	250	Chloride	Manganese	TVS	TVS/WS
		0.019	0.011	Chlorine	Mercury(T)	---	0.01
		0.005	---	Cyanide	Molybdenum(T)	---	150
		10	---	Nitrate	Nickel	TVS	TVS
		---	0.05	Nitrite	Nickel(T)	---	100
		---	0.11	Phosphorus	Selenium	TVS	TVS
		---	WS	Sulfate	Silver	TVS	TVS(tr)
		---	0.002	Sulfide	Uranium	varies*	varies*
					Zinc	TVS	TVS
5. Mainstem of Left Hand Creek, including all tributaries and wetlands from Highway 36 to the confluence with St. Vrain Creek.							
COSPSV05	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute      chronic			
Reviewable	Aq Life Cold 1 Recreation E Water Supply	CS-II	CS-II	Temperature °C	Arsenic	340	---
Qualifiers:		acute	chronic	D.O. (mg/L)	Arsenic(T)	---	0.02
Other:		---	6.0	D.O. (spawning)	Cadmium	TVS	TVS
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		6.5 - 9.0	---	pH	Chromium III	---	TVS
		---	150	chlorophyll a (mg/m <sup>2</sup> )	Chromium III(T)	50	---
		---	126	E. Coli (per 100 mL)	Chromium VI	TVS	TVS
Qualifiers:		Inorganic (mg/L)			Copper	TVS	TVS
Other:		acute	chronic	Iron	Iron(T)	---	1000
		TVS	TVS	Ammonia	Lead	TVS	TVS
		---	0.75	Boron	Lead(T)	50	---
		---	250	Chloride	Manganese	TVS	TVS/WS
		0.019	0.011	Chlorine	Mercury(T)	---	0.01
		0.005	---	Cyanide	Molybdenum(T)	---	150
		10	---	Nitrate	Nickel	TVS	TVS
		---	0.5	Nitrite	Nickel(T)	---	100
		---	0.11	Phosphorus	Selenium	TVS	TVS
		---	WS	Sulfate	Silver	TVS	TVS(tr)
		---	0.002	Sulfide	Uranium	varies*	varies*
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## St. Vrain Creek Basin

6a. All tributaries to Dry Creek, including wetlands, from the source to the inlet of Boulder Reservoir.

COSPSV06A	Classifications	Physical and Biological			Metals (ug/L)		
		DM	MWAT	acute	chronic		
UP	Agriculture						
	Aq Life Warm 2 Recreation E	Temperature °C	WS-II	WS-II	Arsenic	340	---
Qualifiers:			acute	chronic	Arsenic(T)	---	100
		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: Temporary Modification(s): Iron(chronic) = current condition* Expiration Date of 6/30/2023  *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details. *TempMod: Iron = Adopted 12/12/2016		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III(T)	---	100
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Manganese	TVS	TVS
		Chloride	---	---	Mercury(T)	---	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	100	---	Selenium	TVS	TVS
		Nitrite	---	0.5	Silver	TVS	TVS
		Phosphorus	---	---	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

6b. All tributaries to St. Vrain Creek, including wetlands from Hygiene Road to the confluence with the South Platte River, except for specific listings in the Boulder Creek subbasin and in Segments 4a, 4b, 4c and 5 and 6a.

COSPSV06B	Classifications	Physical and Biological			Metals (ug/L)		
		DM	MWAT	acute	chronic		
UP	Agriculture						
	Aq Life Warm 2 Water Supply Recreation E	Temperature °C	WS-II	WS-II	Arsenic	340	---
Qualifiers:			acute	chronic	Arsenic(T)	---	0.02-10 <sup>A</sup>
		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
			acute	chronic	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---	WS
		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	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
			Uranium	varies*	varies*		
			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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS St. Vrain Creek Basin

7. Boulder Reservoir, Coot Lake, Left Hand Valley Reservoir and Spurgeon Reservoir.						
COSPSV07	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture Aq Life Warm 1 Recreation E Water Supply DUWS*	DM	MWAT	acute	chronic	
Reviewable		WL	WL	Arsenic	340	---
		acute	chronic	Arsenic(T)	---	0.02
		---	5.0	Cadmium	TVS	TVS
Qualifiers:		6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		---	---	Chromium III	---	TVS
Temporary Modification(s):		---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)		Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS	TVS
*Classification: DUWS applies to Boulder, Spurgeon and Left Hand Valley Reservoirs only.		TVS	TVS	Iron	---	WS
*Uranium(acute) = See 38.5(3) for details.		---	0.75	Iron(T)	---	1000
*Uranium(chronic) = See 38.5(3) for details.		---	250	Lead	TVS	TVS
		0.019	0.011	Lead(T)	50	---
		0.005	---	Manganese	TVS	TVS/WS
		10	---	Mercury(T)	---	0.01
		---	0.5	Molybdenum(T)	---	150
		---	---	Nickel	TVS	TVS
		---	WS	Nickel(T)	---	100
		---	0.002	Selenium	TVS	TVS
				Silver	TVS	TVS
				Uranium	varies*	varies*
				Zinc	TVS	TVS
8. All lakes and reservoirs tributary to St. Vrain Creek that are within the boundary of the Indian Peaks Wilderness Area and Rocky Mountain National Park.						
COSPSV08	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute	chronic	
OW		CL	CL	Arsenic	340	---
		acute	chronic	Arsenic(T)	---	0.02
		---	6.0	Cadmium	TVS	TVS
Qualifiers:		---	7.0	Cadmium(T)	5.0	---
Other:		6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 38.5(3) for details.		---	---	Chromium III(T)	50	---
*Uranium(chronic) = See 38.5(3) for details.		---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		TVS	TVS	Iron(T)	---	1000
		---	0.75	Lead	TVS	TVS
		---	250	Lead(T)	50	---
		0.019	0.011	Manganese	TVS	TVS/WS
		0.005	---	Mercury(T)	---	0.01
		10	---	Molybdenum(T)	---	150
		---	0.05	Nickel	TVS	TVS
		---	---	Nickel(T)	---	100
		---	WS	Selenium	TVS	TVS
		---	0.002	Silver	TVS	TVS(tr)
				Uranium	varies*	varies*
				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 further details on applied standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS St. Vrain Creek Basin

11. Barbour Ponds.							
COSPSV11	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (ug/L)	---	---	Chromium III	---	TVS
*Uranium(acute) = See 38.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
*Uranium(chronic) = See 38.5(3) for details.		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
			acute	chronic	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---	WS
		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	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

  

12. All lakes and reservoirs tributary to Left Hand Creek from Highway 36 to the confluence with St. Vrain Creek, except as specified in Segment 7.							
COSPSV12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Water + Fish Standards</b>		chlorophyll a (ug/L)	---	---	Chromium III	---	TVS
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Temporary Modification(s):		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid			acute	chronic	Copper	TVS	TVS
Expiration Date of 12/31/2024		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(acute) = See 38.5(3) for details.		Boron	---	0.75	Iron(T)	---	1000
*Uranium(chronic) = See 38.5(3) for details.		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	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## St. Vrain Creek Basin

13. All lakes and reservoirs tributary to St. Vrain Creek from Hygiene Road to the confluence with the South Platte River, except as specified in Segments 7, 10, 11 and 12.							
COSPSV13	Classifications	Physical and Biological			Metals (ug/L)		
Designation			DM	MWAT			
Reviewable		Temperature °C	WL	WL	Arsenic	acute	
			acute	chronic	Arsenic(T)	340	chronic
	Agriculture						
	Aq Life Warm 2						
	Recreation E						
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
	DUWS*	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Qualifiers:</b>		chlorophyll a (ug/L)	---	---	Chromium III	---	TVS
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
			<b>Inorganic (mg/L)</b>		Chromium VI	TVS	TVS
					Copper	TVS	TVS
					Iron	---	WS
					Iron(T)	---	1000
					Lead	TVS	TVS
					Lead(T)	50	---
					Manganese	TVS	TVS/WS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Middle South Platte River Basin

1a. Mainstem of the South Platte River from a point immediately below the confluence with Big Dry Creek to the confluence with St. Vrain Creek.						
COSPMS01A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute      chronic		
UP	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340      ---
	Recreation E	<b>acute</b>	<b>chronic</b>	Arsenic(T)	---      0.02	
	Water Supply	D.O. (mg/L)	varies*	varies*	Cadmium	TVS      TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0      ---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---      TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50      ---
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium VI	TVS      TVS
Expiration Date of 12/31/2024		<b>acute</b>	<b>chronic</b>	Copper	---      18.0*	
*Ammonia(acute) = See section 38.6(4) for site-specific standards.		Ammonia	TVS*	TVS*	Copper	26.4*      ---
*Ammonia(chronic) = See section 38.6(4) for site-specific standards.		Boron	---	0.75	Iron	---      WS
*Copper(acute) = Copper BLM-based FMB Cu FMB(ac)=26.4 ug/l		Chloride	---	250	Iron(T)	---      1000
*Copper(chronic) = Copper BLM-based FMB Cu FMB(ch)=18.0 ug/l		Chlorine	0.019	0.011	Lead	TVS      TVS
*Uranium(acute) = See 38.5(3) for details.		Cyanide	0.005	---	Lead(T)	50      ---
*Uranium(chronic) = See 38.5(3) for details.		Nitrate	10	---	Manganese	TVS      TVS/WS
*D.O. (mg/L)(acute) = See section 38.6(4) for site-specific standards.		Nitrite	---	0.5	Mercury(T)	---      0.01
*D.O. (mg/L)(chronic) = See section 38.6(4) for site-specific standards.		Phosphorus	---	---	Molybdenum(T)	---      150
		Sulfate	---	WS	Nickel	TVS      TVS
		Sulfide	---	0.002	Nickel(T)	---      100
					Selenium	TVS      TVS
					Silver	TVS      TVS
					Uranium	varies*      varies*
					Zinc	TVS      TVS

  

1b. Mainstem of the South Platte River from a point immediately below the confluence with St. Vrain Creek to the Weld/Morgan County Line.						
COSPMS01B	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute      chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340      ---
	Recreation E	<b>acute</b>	<b>chronic</b>	Arsenic(T)	---      0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS      TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0      ---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---      TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50      ---
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium VI	TVS      TVS
Expiration Date of 12/31/2024		<b>acute</b>	<b>chronic</b>	Copper	TVS      TVS	
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Iron	---      WS
*Uranium(chronic) = 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	---	---	Nickel	TVS      TVS
		Sulfate	---	WS	Nickel(T)	---      100
		Sulfide	---	0.002	Selenium	TVS      TVS
					Silver	TVS      TVS
					Uranium	varies*      varies*
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Middle South Platte River Basin

2. Deleted.						
COSPMS02	Classifications	Physical and Biological			Metals (ug/L)	
Designation		DM	MWAT		acute	chronic
Qualifiers:		acute	chronic			
Other:						
		Inorganic (mg/L)				
		acute	chronic			
3a. All tributaries to the South Platte River, including all wetlands, from a point immediately below the confluence with Big Dry Creek to the Weld/Morgan County line, except for listings in the subbasins of the South Platte River, and in Segments 3b, 5a, 5b, 5c, and 6.						
COSPMS03A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
UP	Aq Life Warm 2	WS-I	WS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Water + Fish Standards		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III	---
Other:		E. Coli (per 100 mL)	---	126	Chromium III(T)	50
		Inorganic (mg/L)			Chromium VI	TVS
		acute	chronic	Copper	TVS	TVS
Temporary Modification(s):		Ammonia	TVS	TVS	Iron	---
Arsenic(chronic) = hybrid		Boron	---	0.75	Iron(T)	---
Expiration Date of 12/31/2024		Chloride	---	250	Lead	TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).		Chlorine	0.019	0.011	Lead(T)	50
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Cyanide	0.005	---	Manganese	TVS
*Uranium(acute) = See 38.5(3) for details.		Nitrate	10	---	Mercury(T)	---
*Uranium(chronic) = See 38.5(3) for details.		Nitrite	---	0.5	Molybdenum(T)	---
		Phosphorus	---	0.17*	Nickel	TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Middle South Platte River Basin

3b. Hayesmount Tributaries including the Upper Hayesmount Tributary from the source to the confluence with Box Elder Creek and the Lower Hayesmount Tributaries from the source to the Denver Hudson Canal.							
COSPMS03B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2 Recreation E	Temperature °C	WS-III	WS-III	Arsenic	340	---
			<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	100
<b>Qualifiers:</b>		D.O. (mg/L)	---	narrative*	Cadmium	TVS	TVS
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	---	100
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
			<b>Inorganic (mg/L)</b>		Copper	TVS	TVS
			<b>acute</b>	<b>chronic</b>	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Manganese	TVS	TVS
		Chloride	---	---	Mercury(T)	---	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	100	---	Selenium	TVS	TVS
		Nitrite	---	0.5	Silver	TVS	TVS
		Phosphorus	---	0.17	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			
4. Barr Lake and Milton Reservoir.							
COSPMS04	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2 Recreation E Water Supply	Temperature °C	WL	WL	Arsenic	340	---
			<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Water + Fish Standards</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
			<b>Inorganic (mg/L)</b>		Chromium VI	TVS	TVS
			<b>acute</b>	<b>chronic</b>	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---	WS
		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	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					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 further details on applied standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Middle South Platte River Basin

5c. Mainstems of Crow Creek and Box Elder Creek from their sources to their confluences with the South Platte River, except for listings in Segment 5b.							
COSPMS05C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Water Supply		acute	chronic	Arsenic(T)	---	0.02
	Recreation N	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	630	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024			acute	chronic	Copper	TVS	TVS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(acute) = See 38.5(3) for details.		Boron	---	0.75	Iron(T)	---	1000
*Uranium(chronic) = See 38.5(3) for details.		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

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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Middle South Platte River Basin

6. Lost Creek from the source to Interstate 76, including all its tributaries, stock ponds and wetlands.							
COSPMS06	Classifications	Physical and Biological			Metals (ug/L)		
Designation			DM	MWAT		acute	chronic
UP	Agriculture Aq Life Warm 2 Recreation N	Temperature °C	WS-III	WS-III	Arsenic	340	---
<b>Qualifiers:</b>			<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	100
<b>Other:</b>		D.O. (mg/L)	---	5.0	Beryllium(T)	---	100
		pH	6.5 - 9.0	---	Cadmium	---	---
		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium(T)	---	10
		E. Coli (per 100 mL)	---	630	Chromium III	---	---
			<b>Inorganic (mg/L)</b>		Chromium III(T)	---	100
			<b>acute</b>	<b>chronic</b>	Chromium VI	---	---
		Ammonia	---	---	Chromium VI(T)	---	100
		Boron	---	0.75	Copper	---	---
		Chloride	---	---	Copper(T)	---	200
		Chlorine	---	---	Iron	---	---
		Cyanide	0.2	---	Lead	---	---
		Nitrate	100	---	Lead(T)	---	100
		Nitrite	10	---	Manganese	---	---
		Phosphorus	---	0.17*	Manganese(T)	---	200
		Sulfate	---	---	Mercury(T)	---	---
		Sulfide	---	0.002	Molybdenum(T)	---	150
					Nickel	---	---
					Nickel(T)	---	200
					Selenium	---	---
					Selenium(T)	---	20
					Silver	---	---
					Uranium	varies*	varies*
					Zinc	---	---
					Zinc(T)	---	2000

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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Middle South Platte River Basin

7. All lakes and reservoirs tributary to the South Platte River from a point immediately below the confluence with Big Dry Creek to the Weld/Morgan County line, except for listings in the subbasins of the South Platte River, and in segments 4 and 8.

COSPMS07	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Water + Fish Standards</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
			<b>acute</b>	<b>chronic</b>	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---	WS
		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	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

8. Riverside Reservoir.

COSPMS08	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	20*	Chromium III	---	TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
			<b>acute</b>	<b>chronic</b>	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---	WS
		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	---	0.083*	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
			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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Big Thompson River Basin

1. Mainstem of the Big Thompson River, including all tributaries and wetlands, within Rocky Mountain National Park.							
COSPBT01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute	chronic		
OW		Temperature °C	CS-I	CS-I	Arsenic	340	---
		acute	chronic	Arsenic(T)	---	0.02	
		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	10	---	Molybdenum(T)	---	150
		Nitrite	---	0.05	Nickel	TVS	TVS
		Phosphorus	---	0.11	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS
2. Mainstem of the Big Thompson River from the boundary of Rocky Mountain National Park to the Greeley-Loveland Canal Diversion (40.397884, -105.106482). All tributaries to the Big Thompson River, including all wetlands, from the boundary of Rocky Mountain National Park to the Home Supply Canal diversion (40.424430, -105.210449).							
COSPBT02	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute	chronic		
Reviewable		Temperature °C	CS-II	CS-II	Arsenic	340	---
		acute	chronic	Arsenic(T)	---	0.02	
		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	---	7.5*
		acute	chronic	Copper	11*	TVS	
		Ammonia	TVS	TVS	Copper	TVS	---
		Boron	---	0.75	Iron	---	WS
		Chloride	---	250	Iron(T)	---	1000
		Chlorine	0.019	0.011	Lead	TVS	TVS
		Cyanide	0.005	---	Lead(T)	50	---
		Nitrate	10	---	Manganese	TVS	TVS/WS
		Nitrite	---	0.05	Mercury(T)	---	0.01
		Phosphorus	---	0.11*	Molybdenum(T)	---	150
		Sulfate	---	WS	Nickel	TVS	TVS
		Sulfide	---	0.002	Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Big Thompson River Basin

3. Mainstem of the Big Thompson River from the Greeley-Loveland Canal diversion (40.397884, -105.106482) to County Road 11H.							
COSPBT03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute      chronic			
Reviewable	Aq Life Warm 1	WS-I	WS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
Water Supply	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS      TVS	
		pH	6.5 - 9.0	---	Cadmium(T)	5.0      ---	
<b>Qualifiers:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Temporary Modification(s):		Inorganic (mg/L)			Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid		acute	chronic	Copper	TVS	TVS	
Expiration Date of 12/31/2024		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(acute) = See 38.5(3) for details.		Boron	---	0.75	Iron(T)	---	1000
*Uranium(chronic) = See 38.5(3) for details.		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	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

  

4. Mainstem of the Big Thompson River from County Road 11H to I-25.							
COSPBT04	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute      chronic			
Reviewable	Aq Life Warm 2	WS-I	WS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	7.6	
Fish Ingestion Standards	Fish Ingestion Standards	D.O. (mg/L)	---	5.0	Cadmium	TVS      TVS	
		pH	6.5 - 9.0	---	Chromium III	TVS      TVS	
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III(T)	---	100
*Uranium(acute) = See 38.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Manganese	TVS	TVS
		Chloride	---	---	Mercury(T)	---	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	100	---	Selenium	TVS	TVS
		Nitrite	---	0.5	Silver	TVS	TVS
		Phosphorus	---	---	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		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 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Big Thompson River Basin

5. Mainstem of The Big Thompson River from I-25 to the confluence with the South Platte River.							
COSPBT05	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Water Supply		<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02
Qualifiers:	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.	chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
		Inorganic (mg/L)			Chromium VI	TVS	TVS
			acute	chronic	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---	WS
		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	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
6. All tributaries to the Big Thompson River, including all wetlands, from the Home Supply Canal diversion (40.424430, -105.210449) to the confluence with the South Platte River, except for listings in segments 7, 8, 9, and 10.							
COSPBT06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Water Supply		<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02
Qualifiers:	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Water + Fish Standards		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.	Inorganic (mg/L)			Chromium VI	TVS	TVS
			acute	chronic	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---	WS
		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

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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Big Thompson River Basin

7. Buckhorn Creek from the source to the confluence with the Big Thompson River.						
COSPBT07	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply		DM	MWAT		
Reviewable		acute	chronic	acute	chronic	
		Temperature °C	CS-II	CS-II	Arsenic	340 ---
		D.O. (mg/L)	---	6.0	Arsenic(T)	--- 0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium	TVS TVS
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0 ---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III	--- TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50 ---
Expiration Date of 12/31/2024		<b>Inorganic (mg/L)</b>			Chromium VI	TVS TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).					Copper	TVS TVS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).					Iron	--- WS
*Uranium(acute) = See 38.5(3) for details.					Iron(T)	--- 1000
*Uranium(chronic) = See 38.5(3) for details.					Lead	TVS TVS
		Ammonia	TVS	TVS	Lead(T)	50 ---
		Boron	---	0.75	Manganese	TVS TVS/WS
		Chloride	---	250	Mercury(T)	--- 0.01
		Chlorine	0.019	0.011	Molybdenum(T)	--- 150
		Cyanide	0.005	---	Nickel	TVS TVS
		Nitrate	10	---	Nickel(T)	--- 100
		Nitrite	---	0.05	Selenium	TVS TVS
		Phosphorus	---	0.11*	Silver	TVS TVS(tr)
		Sulfate	---	WS	Uranium	varies* varies*
		Sulfide	---	0.002	Zinc	TVS TVS

  

8. Mainstem of the Little Thompson River, including all tributaries and wetlands, from the source to the Culver Ditch diversion (40.259242, -105.200029).						
COSPBT08	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply		DM	MWAT		
Reviewable		acute	chronic	acute	chronic	
		Temperature °C	CS-II	CS-II	Arsenic	340 ---
		D.O. (mg/L)	---	6.0	Arsenic(T)	--- 0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium	TVS TVS
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0 ---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	--- TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50 ---
Expiration Date of 12/31/2024		<b>Inorganic (mg/L)</b>			Chromium VI	TVS TVS
*Uranium(acute) = See 38.5(3) for details.					Copper	TVS TVS
*Uranium(chronic) = See 38.5(3) for details.					Iron	--- WS
					Iron(T)	--- 1000
		Ammonia	TVS	TVS	Lead	TVS TVS
		Boron	---	0.75	Lead(T)	50 ---
		Chloride	---	250	Manganese	TVS TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	--- 0.01
		Cyanide	0.005	---	Molybdenum(T)	--- 150
		Nitrate	10	---	Nickel	TVS TVS
		Nitrite	---	0.05	Nickel(T)	--- 100
		Phosphorus	---	0.11	Selenium	TVS TVS
		Sulfate	---	WS	Silver	TVS TVS(tr)
		Sulfide	---	0.002	Uranium	varies* varies*
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Big Thompson River Basin

9. Mainstem of the Little Thompson River from the Culver Ditch diversion (40.259242, -105.200029) to the confluence with the Big Thompson River.								
COSPBT09	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture Aq Life Warm 1 Recreation E Water Supply		DM	MWAT		acute	chronic	
Reviewable			Temperature °C	WS-II	WS-II	Arsenic	340	---
				acute	chronic	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III	---	TVS	
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---	
Expiration Date of 12/31/2024			Inorganic (mg/L)		Chromium VI	TVS	TVS	
			acute	chronic	Copper	TVS	TVS	
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).		Ammonia	TVS	TVS	Iron	---	WS	
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Boron	---	0.75	Iron(T)	---	1000	
*Uranium(acute) = See 38.5(3) for details.		Chloride	---	250	Lead	TVS	TVS	
*Uranium(chronic) = See 38.5(3) for details.		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	

  

10. All tributaries to the Little Thompson River, including all wetlands, from the Culver Ditch diversion (40.259242, -105.200029) to the confluence with the Big Thompson River.								
COSPBT10	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture Aq Life Warm 2 Recreation E		DM	MWAT		acute	chronic	
UP			Temperature °C	WS-II	WS-II	Arsenic	340	---
				acute	chronic	Arsenic(T)	---	100
<b>Qualifiers:</b>		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	TVS	TVS	
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	---	100	
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
*Uranium(acute) = See 38.5(3) for details.			Inorganic (mg/L)		Copper	TVS	TVS	
*Uranium(chronic) = See 38.5(3) for details.			acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Manganese	TVS	TVS	
		Chloride	---	---	Mercury(T)	---	0.01	
		Chlorine	0.019	0.011	Molybdenum(T)	---	150	
		Cyanide	0.005	---	Nickel	TVS	TVS	
		Nitrate	100	---	Selenium	TVS	TVS	
		Nitrite	---	0.5	Silver	TVS	TVS	
		Phosphorus	---	0.17*	Uranium	varies*	varies*	
		Sulfate	---	---	Zinc	TVS	TVS	
		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 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Big Thompson River Basin

11. Carter Lake.							
COSPBT11	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS	DM	MWAT	acute	chronic		
Reviewable		acute	chronic	acute	chronic		
		Temperature °C	varies*	varies*	Arsenic	340	---
		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
		chlorophyll a (ug/L)	---	---	Chromium III	---	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
		Inorganic (mg/L)			Chromium VI	TVS	TVS
		acute	chronic	Copper	TVS	TVS	
		Ammonia	TVS	TVS	Iron	---	WS
		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	---	0.05	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS
12. Lake Loveland, Horseshoe Lake, Boyd Lake.							
COSPBT12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Warm 1 Recreation E Water Supply DUWS*	DM	MWAT	acute	chronic		
Reviewable		acute	chronic	acute	chronic		
		Temperature °C	WL	WL	Arsenic	340	---
		D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
		chlorophyll a (ug/L)	---	---	Cadmium(T)	5.0	---
		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
		Inorganic (mg/L)			Chromium III(T)	50	---
		acute	chronic	Chromium VI	TVS	TVS	
		Ammonia	TVS	TVS	Copper	TVS	TVS
		Boron	---	0.75	Iron	---	WS
		Chloride	---	250	Iron(T)	---	1000
		Chlorine	0.019	0.011	Lead	TVS	TVS
		Cyanide	0.005	---	Lead(T)	50	---
		Nitrate	10	---	Manganese	TVS	TVS/WS
		Nitrite	---	0.5	Mercury(T)	---	0.01
		Phosphorus	---	---	Molybdenum(T)	---	150
		Sulfate	---	WS	Nickel	TVS	TVS
		Sulfide	---	0.002	Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					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 further details on applied standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Big Thompson River Basin

15. All lakes and reservoirs tributary to the Big Thompson River within Rocky Mountain National Park.							
COSPBT15	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT	acute	chronic	
OW	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 38.5(3) for details.		chlorophyll a (ug/L)	---	---	Chromium III(T)	50	---
*Uranium(chronic) = See 38.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
			<b>Inorganic (mg/L)</b>		Copper	TVS	TVS
			acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
		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	TVS	TVS
16. All lakes and reservoirs tributary to the Big Thompson River from the boundary of Rocky Mountain National Park to the Home Supply Canal diversion (40.424430, -105.210449). This segment includes Lake Estes and St Mary's Lake.							
COSPBT16	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CL,CLL	CL,CLL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
	DUWS*	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
<b>Other:</b>		chlorophyll a (ug/L)	---	---	Chromium III(T)	50	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid			<b>Inorganic (mg/L)</b>		Copper	TVS	TVS
Expiration Date of 12/31/2024			acute	chronic	Iron	---	WS
*Classification: DUWS applies to St.Mary's Lake and Mirror Lake only.		Ammonia	TVS	TVS	Iron(T)	---	1000
*Uranium(acute) = See 38.5(3) for details.		Boron	---	0.75	Lead	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
		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	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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Big Thompson River Basin

17. All lakes and reservoirs tributary to the Big Thompson River from the Home Supply Canal diversion (40.424430, -105.210449) to the confluence with the South Platte River, except for listings in segments 12, 14, 18, and 19.							
COSPBT17	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
	DUWS*	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Qualifiers:		chlorophyll a (ug/L)	---	---	Chromium III	---	TVS
Water + Fish Standards		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Other:		Inorganic (mg/L)			Chromium VI	TVS	TVS
Temporary Modification(s):			acute	chronic	Copper	TVS	TVS
Arsenic(chronic) = hybrid		Ammonia	TVS	TVS	Iron	---	WS
Expiration Date of 12/31/2024		Boron	---	0.75	Iron(T)	---	1000
*Classification: DUWS applies to Pinewood Lake only.		Chloride	---	250	Lead	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Chlorine	0.019	0.011	Lead(T)	50	---
*Uranium(chronic) = See 38.5(3) for details.		Cyanide	0.005	---	Manganese	TVS	TVS/WS
		Nitrate	10	---	Mercury(T)	---	0.01
		Nitrite	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
18. All lakes and reservoirs tributary to the Little Thompson River from the source to the Culver Ditch diversion (40.259242, -105.200029).							
COSPBT18	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 38.5(3) for details.		chlorophyll a (ug/L)	---	---	Chromium III(T)	50	---
*Uranium(chronic) = See 38.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
			acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
		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	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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Big Thompson River Basin

19. All lakes and reservoirs tributary to the Little Thompson River from the Culver Ditch diversion (40.259242, -105.200029) to the confluence with the Big Thompson River, except for listings in segments 11 and 13.

COSPBT19	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		<b>DM</b>	<b>MWAT</b>		<b>acute</b>	<b>chronic</b>
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (ug/L)	---	---	Chromium III	---	TVS
*Uranium(acute) = See 38.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
*Uranium(chronic) = See 38.5(3) for details.		Inorganic (mg/L)			Chromium VI	TVS	TVS
			<b>acute</b>	<b>chronic</b>	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---	WS
		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	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cache La Poudre River Basin

1. Mainstem of the Cache La Poudre River, including all tributaries and wetlands, within Rocky Mountain National Park and the Rawah, Neota, Comanche Peak, and Cache La Poudre Wilderness Areas.												
COSPCP01	Classifications	Physical and Biological			Metals (ug/L)							
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute      chronic								
OW		acute	chronic	Temperature °C	CS-I	CS-I	Arsenic	340	---			
<b>Qualifiers:</b>					D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS		
					D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---		
<b>Other:</b>					pH	6.5 - 9.0	---	Chromium III	---	TVS		
					chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---		
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024					E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS		
					<b>Inorganic (mg/L)</b>			Copper	TVS	TVS	Iron	---
*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.											<b>acute</b>	<b>chronic</b>
					Ammonia	TVS	TVS				Lead	TVS
					Boron	---	0.75	Lead(T)	50	---		
					Chloride	---	250	Manganese	TVS	TVS/WS		
					Chlorine	0.019	0.011	Mercury(T)	---	0.01		
					Cyanide	0.005	---	Molybdenum(T)	---	150		
					Nitrate	10	---	Nickel	TVS	TVS		
					Nitrite	---	0.05	Nickel(T)	---	100		
					Phosphorus	---	0.11	Selenium	TVS	TVS		
					Sulfate	---	WS	Silver	TVS	TVS(tr)		
					Sulfide	---	0.002	Uranium	varies*	varies*		
					Zinc	TVS	TVS					
2a. Mainstem of the Cache La Poudre River, including all tributaries and wetlands, from the boundaries of Rocky Mountain National Park and the Rawah, Neota, Comanche Peak, and Cache La Poudre Wilderness Areas to a point immediately below the confluence with the South Fork Cache La Poudre River.												
COSPCP02A	Classifications	Physical and Biological			Metals (ug/L)							
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute      chronic								
Reviewable		acute	chronic	Temperature °C	CS-I	CS-I	Arsenic	340	---			
<b>Qualifiers:</b>					D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS		
					D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---		
<b>Other:</b>					pH	6.5 - 9.0	---	Chromium III	---	TVS		
					chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---		
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024					E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS		
					<b>Inorganic (mg/L)</b>			Copper	TVS	TVS	Iron	---
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.											<b>acute</b>	<b>chronic</b>
					Ammonia	TVS	TVS				Lead	TVS
					Boron	---	0.75	Lead(T)	50	---		
					Chloride	---	250	Manganese	TVS	TVS/WS		
					Chlorine	0.019	0.011	Mercury(T)	---	0.01		
					Cyanide	0.005	---	Molybdenum(T)	---	150		
					Nitrate	10	---	Nickel	TVS	TVS		
					Nitrite	---	0.05	Nickel(T)	---	100		
					Phosphorus	---	0.11*	Selenium	TVS	TVS		
					Sulfate	---	WS	Silver	TVS	TVS(tr)		
					Sulfide	---	0.002	Uranium	varies*	varies*		
					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 further details on applied standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cache La Poudre River Basin

4. Deleted.				
COSPCP04	Classifications	Physical and Biological		Metals (ug/L)
Designation		DM	MWAT	acute      chronic
Qualifiers:		acute	chronic	
Other:		Inorganic (mg/L)		
		acute	chronic	
5. Deleted.				
COSPCP05	Classifications	Physical and Biological		Metals (ug/L)
Designation		DM	MWAT	acute      chronic
Qualifiers:		acute	chronic	
Other:		Inorganic (mg/L)		
		acute	chronic	

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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cache La Poudre River Basin

6. North Fork of the Cache La Poudre River, including all tributaries and wetlands, from the source to the inlet of Halligan Reservoir.							
COSPCP06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute      chronic			
Reviewable		acute	chronic	Arsenic	340	---	
<b>Qualifiers:</b>		Temperature °C	CS-I	CS-I	Arsenic(T)	---	0.02
		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
<b>Other:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	10	---	Molybdenum(T)	---	150
		Nitrite	---	0.05	Nickel	TVS	TVS
		Phosphorus	---	0.11	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

  

7. North Fork of the Cache La Poudre River, including all tributaries and wetlands, from the inlet of Halligan Reservoir to the confluence with the Cache La Poudre River, except for listings in segments 8 and 20.							
COSPCP07	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute      chronic			
Reviewable		acute	chronic	Arsenic	340	---	
<b>Qualifiers:</b>		Temperature °C	CS-II	CS-II	Arsenic(T)	---	0.02
		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
<b>Other:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
		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	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 further details on applied standards.

## REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Cache La Poudre River Basin

8. Middle Fork Rabbit Creek, including all tributaries and wetlands, from the source to the confluence with Rabbit Creek. Stonewall Creek, including all tributaries and wetlands, from the source to the confluence with the North Fork of the Cache La Poudre River. North Fork Lone Pine Creek and South Fork Lone Pine Creek, including all tributaries and wetlands, from the source to the confluence with Lone Pine Creek.							
COSPCP08	Classifications	Physical and Biological			Metals (ug/L)		
<b>Designation</b>	Agriculture	<b>DM</b>	<b>MWAT</b>		<b>acute</b>	<b>chronic</b>	
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-I	CS-I	Arsenic	340	---
			<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02
		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
					<b>Inorganic (mg/L)</b>		
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).					<b>acute</b>	<b>chronic</b>	
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Ammonia	TVS	TVS	Iron(T)	---	1000
*Uranium(acute) = See 38.5(3) for details.		Boron	---	0.75	Lead	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	10	---	Molybdenum(T)	---	150
		Nitrite	---	0.05	Nickel	TVS	TVS
		Phosphorus	---	0.11*	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS
9. Deleted.							
COSPCP09	Classifications	Physical and Biological			Metals (ug/L)		
<b>Designation</b>		<b>DM</b>	<b>MWAT</b>		<b>acute</b>	<b>chronic</b>	
<b>Qualifiers:</b>		<b>acute</b>	<b>chronic</b>				
<b>Other:</b>				<b>Inorganic (mg/L)</b>			
		<b>acute</b>	<b>chronic</b>				

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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cache La Poudre River Basin

10a. Mainstem of the Cache La Poudre River from the Munroe Gravity Canal Headgate (also known as the North Poudre Supply Canal diversion; 40.691700, -105.255292) to a point immediately above the Larimer County Ditch diversion (40.656612, -105.185244).

COSPCP10A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	CS-II	CS-II	340	---		
	Recreation E	acute	chronic	---	0.02		
	Water Supply			TVS	TVS		
<b>Qualifiers:</b>				5.0	---		
<b>Other:</b>				---	TVS		
Temporary Modification(s):				50	---		
Arsenic(chronic) = hybrid				TVS	TVS		
Expiration Date of 12/31/2024				TVS	TVS		
*Uranium(acute) = See 38.5(3) for details.		<b>Inorganic (mg/L)</b>					
*Uranium(chronic) = See 38.5(3) for details.		acute	chronic	---	WS		
		TVS	TVS	---	1000		
		---	0.75	TVS	TVS		
		---	250	50	---		
		0.019	0.011	TVS	TVS/WS		
		0.005	---	---	0.01		
		10	---	---	150		
		---	0.05	TVS	TVS		
		---	---	---	100		
		---	---	TVS	TVS		
		---	WS	TVS	TVS(tr)		
		---	0.002	varies*	varies*		
				TVS	TVS		

10b. Mainstem of the Cache La Poudre River from a point immediately above the Larimer County Ditch diversion (40.656612, -105.185244) to Shields Street in Ft. Collins, Colorado.

COSPCP10B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 2	CS-II	CS-II	340	---		
	Recreation E	acute	chronic	---	0.02		
	Water Supply			TVS	TVS		
<b>Qualifiers:</b>				5.0	---		
<b>Water + Fish Standards</b>				---	TVS		
<b>Other:</b>				---	TVS		
Temporary Modification(s):				50	---		
Arsenic(chronic) = hybrid				TVS	TVS		
Expiration Date of 12/31/2024				TVS	TVS		
*Uranium(acute) = See 38.5(3) for details.		<b>Inorganic (mg/L)</b>					
*Uranium(chronic) = See 38.5(3) for details.		acute	chronic	---	WS		
		TVS	TVS	---	1000		
		---	0.75	TVS	TVS		
		---	250	50	---		
		0.019	0.011	TVS	TVS/WS		
		0.005	---	---	0.01		
		10	---	---	150		
		---	0.05	TVS	TVS		
		---	---	---	100		
		---	---	TVS	TVS		
		---	WS	TVS	TVS(tr)		
		---	0.002	varies*	varies*		
				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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cache La Poudre River Basin

11. Mainstem of the Cache La Poudre River from Shields Street in Ft. Collins to Prospect Road.						
COSPCP11	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture Aq Life Cold 1 Water Supply* Recreation E	DM	MWAT	acute      chronic		
Reviewable		acute	chronic			
		Temperature °C	CS-II	CS-II	Arsenic	340      ---
		D.O. (mg/L)	---	6.0	Arsenic(T)	---      0.02*
		D.O. (spawning)	---	7.0	Arsenic(T)	---      7.6
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium	TVS      TVS
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium(T)	5.0*      ---
*Classification: effective 12/31/2025		E. Coli (per 100 mL)	---	126	Chromium III	TVS      TVS
*Chloride(chronic) = effective 12/31/2025		<b>Inorganic (mg/L)</b>			Chromium III(T)	50*      100
*Nitrate(acute) = effective 12/31/2025			acute	chronic	Chromium VI	TVS      TVS
*Nitrite(acute) = effective 12/31/2025		Ammonia	TVS	TVS	Copper	TVS      TVS
*Sulfate(chronic) = effective 12/31/2025		Boron	---	0.75	Iron	---      WS*
*Arsenic(T)(chronic) = effective 12/31/2025		Chloride	---	250*	Iron(T)	---      1000
*Cadmium(T)(acute) = effective 12/31/2025		Chlorine	0.019	0.011	Lead	TVS      TVS
*Chromium III(T)(acute) = effective 12/31/2025		Cyanide	0.005	---	Lead(T)	50*      ---
*Iron(chronic) = effective 12/31/2025		Nitrate	10*	---	Manganese	TVS      TVS
*Lead(T)(acute) = effective 12/31/2025		Nitrate	100	---	Manganese	---      WS*
*Manganese(chronic) = effective 12/31/2025		Nitrite	1*	2.7	Mercury(T)	---      0.01
*Nickel(T)(chronic) = effective 12/31/2025		Phosphorus	---	---	Molybdenum(T)	---      150
*Uranium(acute) = See 38.5(3) for details.		Sulfate	---	WS*	Nickel	TVS      TVS
*Uranium(chronic) = See 38.5(3) for details.		Sulfide	---	0.002	Nickel(T)	---      100*
					Selenium	TVS      TVS
					Silver	TVS      TVS(tr)
					Uranium	varies*      varies*
					Zinc	TVS      TVS

  

12a. Mainstem of the Cache La Poudre River from Prospect Road to U.S. Hwy 85 in Greeley.						
COSPCP12A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture Aq Life Warm 1 Water Supply* Recreation E	DM	MWAT	acute      chronic		
Reviewable		acute	chronic			
		Temperature °C	WS-I	WS-I	Arsenic	340      ---
		D.O. (mg/L)	---	5.0	Arsenic(T)	---      0.02*
		pH	6.5 - 9.0	---	Arsenic(T)	---      7.6
<b>Qualifiers:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	TVS      TVS
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0*      ---
*Classification: effective 12/31/2025		<b>Inorganic (mg/L)</b>			Chromium III	TVS      TVS
*Chloride(chronic) = effective 12/31/2025			acute	chronic	Chromium III(T)	50*      100
*Nitrate(acute) = effective 12/31/2025		Ammonia	TVS	TVS	Chromium VI	TVS      TVS
*Nitrite(acute) = effective 12/31/2025		Boron	---	0.75	Copper	TVS      TVS
*Sulfate(chronic) = effective 12/31/2025		Chloride	---	250*	Iron	---      WS*
*Arsenic(T)(chronic) = effective 12/31/2025		Chlorine	0.019	0.011	Iron(T)	---      1000
*Cadmium(T)(acute) = effective 12/31/2025		Cyanide	0.005	---	Lead	TVS      TVS
*Chromium III(T)(acute) = effective 12/31/2025		Nitrate	10*	---	Lead(T)	50*      ---
*Iron(chronic) = effective 12/31/2025		Nitrate	100	---	Manganese	TVS      TVS
*Lead(T)(acute) = effective 12/31/2025		Nitrite	1*	2.7	Manganese	---      WS*
*Manganese(chronic) = effective 12/31/2025		Phosphorus	---	---	Mercury(T)	---      0.01
*Nickel(T)(chronic) = effective 12/31/2025		Sulfate	---	WS*	Molybdenum(T)	---      150
*Uranium(acute) = See 38.5(3) for details.		Sulfide	---	0.002	Nickel	TVS      TVS
*Uranium(chronic) = See 38.5(3) for details.					Nickel(T)	---      100*
					Selenium	TVS      TVS
					Silver	TVS      TVS
					Uranium	varies*      varies*
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cache La Poudre River Basin

12b. Mainstem of the Cache La Poudre River from U.S. Hwy 85 in Greeley to the confluence with the South Platte River.							
COSPCP12B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute      chronic	
Reviewable	Aq Life Warm 1 Recreation E	Temperature °C	WS-I	WS-I	Arsenic	340      ---	
Qualifiers:			<b>acute</b>	<b>chronic</b>	Arsenic(T)	---      7.6	
Other:		D.O. (mg/L)	---	5.0	Cadmium	TVS      TVS	
*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS      TVS	
		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III(T)	---      100	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS      TVS	
		Inorganic (mg/L)				Copper	TVS      TVS
			<b>acute</b>	<b>chronic</b>	Iron(T)	---      1000	
		Ammonia	TVS	TVS	Lead	TVS      TVS	
		Boron	---	0.75	Manganese	TVS      TVS	
		Chloride	---	---	Mercury(T)	---      0.01	
		Chlorine	0.019	0.011	Molybdenum(T)	---      150	
		Cyanide	0.005	---	Nickel	TVS      TVS	
		Nitrate	100	---	Selenium	TVS      TVS	
		Nitrite	---	2.7	Silver	TVS      TVS	
		Phosphorus	---	---	Uranium	varies*      varies*	
		Sulfate	---	---	Zinc	TVS      TVS	
		Sulfide	---	0.002			
13a. All tributaries to the Cache La Poudre River, including all wetlands, from the Munroe Gravity Canal Headgate (also known as the North Poudre Supply Canal diversion; 40.691700, -105.255292) to the confluence with the South Platte River, except for listings in segments 6, 7, 8, 13b, and 13c.							
COSPCP13A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute      chronic	
Reviewable	Aq Life Warm 1 Recreation E Water Supply	Temperature °C	WS-I	WS-I	Arsenic	340      ---	
Qualifiers:			<b>acute</b>	<b>chronic</b>	Arsenic(T)	---      0.02	
Other:		D.O. (mg/L)	---	5.0	Cadmium	TVS      TVS	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Cadmium(T)	5.0      ---	
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III	---      TVS	
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50      ---	
		Inorganic (mg/L)				Chromium VI	TVS      TVS
			<b>acute</b>	<b>chronic</b>	Copper	TVS      TVS	
		Ammonia	TVS	TVS	Iron	---      WS	
		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			

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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cache La Poudre River Basin

13b. Mainstem of Boxelder Creek from its source to a point immediately above Slab Canyon Wash. Mainstems of South Branch of Boxelder Creek, North Branch of Boxelder Creek, and Sand Creek from their sources to their confluences with the mainstem of Boxelder Creek.

COSPCP13B	Classifications	Physical and Biological			Metals (ug/L)		
			<b>DM</b>	<b>MWAT</b>		<b>acute</b>	<b>chronic</b>
Reviewable	Agriculture	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Aq Life Cold 1		<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02
	Recreation E	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
	Water Supply	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
Expiration Date of 12/31/2024					Iron	---	WS
*Uranium(acute) = See 38.5(3) for details.					Iron(T)	---	1000
*Uranium(chronic) = See 38.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

13c. Mainstem of Boxelder Creek from a point immediately above Slab Canyon Wash to the confluence with the Cache La Poudre River.

COSPCP13C	Classifications	Physical and Biological			Metals (ug/L)		
			<b>DM</b>	<b>MWAT</b>		<b>acute</b>	<b>chronic</b>
Reviewable	Agriculture	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Aq Life Warm 1		<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
	Recreation P	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Qualifiers:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III	---	TVS
<b>Other:</b>		E. Coli (per 100 mL)	---	205	Chromium III(T)	50	---
Temporary Modification(s):		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024		Ammonia	TVS	TVS	Iron	---	WS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).		Boron	---	0.75	Iron(T)	---	1000
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Chloride	---	250	Lead	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Chlorine	0.019	0.011	Lead(T)	50	---
*Uranium(chronic) = See 38.5(3) for details.		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

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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cache La Poudre River Basin

14. Horsetooth Reservoir.						
COSPCP14	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS	DM	MWAT	acute	chronic	
Reviewable		Temperature °C	varies*	varies* <sup>B</sup>	340	---
			acute	chronic	---	0.02
		D.O. (mg/L)	---	6.0	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---
Other:		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (ug/L)	---	---	Chromium III(T)	50 ---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS
		Inorganic (mg/L)			Copper	TVS TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS TVS
		Chloride	---	250	Lead(T)	50 ---
		Chlorine	0.019	0.011	Manganese	TVS TVS/WS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS TVS
		Phosphorus	---	---	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS TVS
		Sulfide	---	0.002	Silver	TVS TVS(tr)
					Uranium	varies* varies*
					Zinc	TVS TVS
*Uranium(acute) = See 38.5(3) for details.						
*Uranium(chronic) = See 38.5(3) for details.						
*Temperature =						
DM=CLL and MWAT=CLL from 1/1-3/31						
DM=CLL and MWAT=22.8 from 4/1-12/31						

  

15. Watson Lake.						
COSPCP15	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute	chronic	
Reviewable		Temperature °C	CL	CL	340	---
			acute	chronic	---	0.02
		D.O. (mg/L)	---	6.0	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---
Other:		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (ug/L)	---	---	Chromium III(T)	50 ---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS
		Inorganic (mg/L)			Copper	TVS TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS TVS
		Chloride	---	250	Lead(T)	50 ---
		Chlorine	0.019	0.011	Manganese	TVS TVS/WS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS TVS
		Phosphorus	---	---	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS TVS
		Sulfide	---	0.002	Silver	TVS TVS(tr)
					Uranium	varies* varies*
					Zinc	TVS TVS
*Uranium(acute) = See 38.5(3) for details.						
*Uranium(chronic) = See 38.5(3) for details.						

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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cache La Poudre River Basin

16. Reservoir #4 (40.719045, -105.033743), Water Supply Reservoir #3 (40.665205, -105.089882), Claymore Lake, College Lake, Dixon Reservoir, Robert Benson Lake, Black Hollow Reservoir, Seeley Lake.

COSP16	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	7.6
<b>Qualifiers:</b>		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (ug/L)	---	20*	Chromium III(T)	---	100
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
			<b>Inorganic (mg/L)</b>		Copper	TVS	TVS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Manganese	TVS	TVS
		Chloride	---	---	Mercury(T)	---	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	100	---	Selenium	TVS	TVS
		Nitrite	---	0.5	Silver	TVS	TVS
		Phosphorus	---	0.083*	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

\*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.  
 \*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.  
 \*Uranium(acute) = See 38.5(3) for details.  
 \*Uranium(chronic) = See 38.5(3) for details.

17. All lakes and reservoirs tributary to the Cache La Poudre River within Rocky Mountain National Park and the Rawah, Neota, Comanche Peak, and Cache La Poudre Wilderness Areas.

COSP17	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
OW	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (ug/L)	---	---	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
			<b>Inorganic (mg/L)</b>		Copper	TVS	TVS
			acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
		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	TVS	TVS

\*Uranium(acute) = See 38.5(3) for details.  
 \*Uranium(chronic) = See 38.5(3) for details.

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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cache La Poudre River Basin

18. All lakes and reservoirs tributary to the Cache La Poudre River from the boundaries of Rocky Mountain National Park and the Rawah, Neota, Comanche Peak, and Cache La Poudre Wilderness Areas to the Munroe Gravity Canal Headgate (also known as the North Poudre Supply Canal diversion; 40.691700, -105.255292).						
COSPCP18	Classifications	Physical and Biological			Metals (ug/L)	
			<b>DM</b>	<b>MWAT</b>		
<b>Designation</b>	Agriculture				<b>acute</b>	<b>chronic</b>
<b>Reviewable</b>	Aq Life Cold 1	Temperature °C	varies*	varies*	340	---
	Recreation E		<b>acute</b>	<b>chronic</b>	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	TVS	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (ug/L)	---	8*	Chromium III(T)	50 ---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS
			<b>Inorganic (mg/L)</b>		Copper	TVS TVS
			<b>acute</b>	<b>chronic</b>	Iron	---
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS TVS
		Chloride	---	250	Lead(T)	50 ---
		Chlorine	0.019	0.011	Manganese	TVS TVS/WS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS TVS
		Phosphorus	---	0.025*	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS TVS
		Sulfide	---	0.002	Silver	TVS TVS(tr)
					Uranium	varies* varies*
					Zinc	TVS TVS
19. All lakes and reservoirs tributary to the North Fork of the Cache La Poudre River from the source to the inlet of Halligan Reservoir.						
COSPCP19	Classifications	Physical and Biological			Metals (ug/L)	
			<b>DM</b>	<b>MWAT</b>		
<b>Designation</b>	Agriculture				<b>acute</b>	<b>chronic</b>
<b>Reviewable</b>	Aq Life Cold 1	Temperature °C	CL	CL	340	---
	Recreation E		<b>acute</b>	<b>chronic</b>	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	TVS	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (ug/L)	---	8*	Chromium III(T)	50 ---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS
			<b>Inorganic (mg/L)</b>		Copper	TVS TVS
			<b>acute</b>	<b>chronic</b>	Iron	---
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS TVS
		Chloride	---	250	Lead(T)	50 ---
		Chlorine	0.019	0.011	Manganese	TVS TVS/WS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS TVS
		Phosphorus	---	0.025*	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS TVS
		Sulfide	---	0.002	Silver	TVS TVS(tr)
					Uranium	varies* varies*
					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 further details on applied standards.



## REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Cache La Poudre River Basin

22. Fossil Creek Reservoir.							
COSPCP22	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Warm 2 Recreation E	DM	MWAT	acute	chronic		
UP			Temperature °C	WL	WL	Arsenic	340
		acute	chronic	Arsenic(T)	---	7.6	
<b>Qualifiers:</b>		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Fish Ingestion Standards</b>		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (ug/L)	---	---	Chromium III(T)	---	100
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Inorganic (mg/L)			Copper	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Manganese	TVS	TVS
		Chloride	---	---	Mercury(T)	---	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	100	---	Selenium	TVS	TVS
		Nitrite	---	0.5	Silver	TVS	TVS
		Phosphorus	---	---	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		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 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Laramie River Basin

1. All tributaries to the Laramie River, including all wetlands, which are within the Rawah Wilderness Area.						
COSPLA01	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute      chronic		
OW		CS-I	CS-I	Arsenic	340	---
Qualifiers:	D.O. (mg/L) D.O. (spawning)	acute	chronic	Arsenic(T)	---	0.02
Other:		6.5 - 9.0	---	6.0	Cadmium	TVS
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.	pH chlorophyll a (mg/m <sup>2</sup> ) E. Coli (per 100 mL)	<b>Inorganic (mg/L)</b>		Cadmium(T)	5.0	---
		---	7.0	Chromium III	---	TVS
		0.019	0.011	Chromium III(T)	50	---
		0.005	---	Chromium VI	TVS	TVS
		10	---	Copper	TVS	TVS
		---	---	Iron	---	WS
		---	WS	Iron(T)	---	1000
		---	0.002	Lead	TVS	TVS
		TVS	TVS	Lead(T)	50	---
		---	0.75	Manganese	TVS	TVS/WS
		---	250	Mercury(T)	---	0.01
		0.019	0.011	Mercury(T)	---	0.01
		0.005	---	Molybdenum(T)	---	150
		10	---	Nickel	TVS	TVS
		---	0.05	Nickel(T)	---	100
---	---	Selenium	TVS	TVS		
---	WS	Silver	TVS	TVS(tr)		
---	0.002	Uranium	varies*	varies*		
---	---	Zinc	TVS	TVS		
2a. Mainstem of the Laramie River from the source to the National Forest boundary, and all tributaries and wetlands from the source to the Colorado/Wyoming border, except for listings in Segment 1.						
COSPLA02A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute      chronic		
Reviewable		CS-I	CS-I	Arsenic	340	---
Qualifiers:	D.O. (mg/L) D.O. (spawning)	acute	chronic	Arsenic(T)	---	0.02
Other:		6.5 - 9.0	---	6.0	Cadmium	TVS
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.	pH chlorophyll a (mg/m <sup>2</sup> ) E. Coli (per 100 mL)	<b>Inorganic (mg/L)</b>		Cadmium(T)	5.0	---
		---	7.0	Chromium III	---	TVS
		0.019	0.011	Chromium III(T)	50	---
		0.005	---	Chromium VI	TVS	TVS
		10	---	Copper	TVS	TVS
		---	---	Iron	---	WS
		---	WS	Iron(T)	---	1000
		---	0.002	Lead	TVS	TVS
		TVS	TVS	Lead(T)	50	---
		---	0.75	Manganese	TVS	TVS/WS
		---	250	Mercury(T)	---	0.01
		0.019	0.011	Mercury(T)	---	0.01
		0.005	---	Molybdenum(T)	---	150
		10	---	Nickel	TVS	TVS
		---	0.05	Nickel(T)	---	100
---	0.11	Selenium	TVS	TVS		
---	WS	Silver	TVS	TVS(tr)		
---	0.002	Uranium	varies*	varies*		
---	---	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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Laramie River Basin

2b. Mainstem of the Laramie River from the National Forest boundary to the Colorado/Wyoming border.							
COSPLA02B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute		chronic	
Reviewable		acute	chronic	arsenic	cadmium	chromium	
		Temperature °C	CS-II	CS-II	Arsenic	340	---
		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid					Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.					<b>Inorganic (mg/L)</b>		
*Uranium(chronic) = See 38.5(3) for details.					Iron	---	WS
					Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

  

3. All lakes and reservoirs tributary to the Laramie River within the Rawah Wilderness Area.							
COSPLA03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute		chronic	
OW		acute	chronic	arsenic	cadmium	chromium	
		Temperature °C	CL	CL	Arsenic	340	---
		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (ug/L)	---	8*	Chromium III	---	TVS
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.					Chromium VI	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.					Copper	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.					<b>Inorganic (mg/L)</b>		
					Iron	---	WS
					Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.025*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Laramie River Basin

4. All lakes and reservoirs tributary to the Laramie River from the source to the Colorado/Wyoming border, except for listings in Segment 3.								
COSPLA04	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply		DM	MWAT				
Reviewable		Temperature °C	CL	CL	Arsenic	acute	chronic	
Qualifiers:			acute	chronic	Arsenic(T)	---	0.02	
<b>Other:</b>  *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (ug/L)	---	8*	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
					<b>Inorganic (mg/L)</b>	Iron	---	WS
						Iron(T)	---	1000
						Lead	TVS	TVS
						Lead(T)	50	---
						Manganese	TVS	TVS/WS
						Mercury(T)	---	0.01
						Molybdenum(T)	---	150
						Nickel	TVS	TVS
						Nickel(T)	---	100
						Selenium	TVS	TVS
						Silver	TVS	TVS(tr)
						Uranium	varies*	varies*
						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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower South Platte River Basin

1a. Mainstem of the South Platte River from the Weld/Morgan County line to the Morgan/Washington County line.							
COSPLS01A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Warm 1 Recreation E Water Supply	DM	MWAT	acute	chronic		
Reviewable		acute	chronic	acute	chronic		
		Temperature °C	WS-I	WS-I	Arsenic	340	---
		D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium(T)	5.0	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium III(T)	50	---
Expiration Date of 12/31/2024					Chromium VI	TVS	TVS
			<b>acute</b>	<b>chronic</b>	Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = 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	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

  

1b. Mainstem of the South Platte River from the Morgan/Washington County line to the Colorado/Nebraska border.							
COSPLS01B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Warm 2 Recreation E Water Supply	DM	MWAT	acute	chronic		
Reviewable		acute	chronic	acute	chronic		
		Temperature °C	WS-II	WS-II	Arsenic	340	---
		D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
<b>Water + Fish Standards</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium(T)	5.0	---
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Temporary Modification(s):		<b>Inorganic (mg/L)</b>			Chromium III(T)	50	---
Arsenic(chronic) = hybrid					Chromium VI	TVS	TVS
Expiration Date of 12/31/2024			<b>acute</b>	<b>chronic</b>	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(acute) = See 38.5(3) for details.		Boron	---	0.75	Iron(T)	---	1000
*Uranium(chronic) = See 38.5(3) for details.		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	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					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 further details on applied standards.

## REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

### Lower South Platte River Basin

2. All tributaries to the South Platte River, including all wetlands, from the Weld/Morgan County line to the Colorado/Nebraska border.						
COSPLS02	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture Aq Life Warm 1 Recreation E Water Supply	DM	MWAT	acute	chronic	
UP			Temperature °C	WS-II	WS-II	Arsenic
		acute	chronic	Arsenic(T)	---	0.02
		D.O. (mg/L)	---	5.0	Beryllium(T)	---
		pH	6.5 - 9.0	---	Cadmium	TVS TVS
<b>Qualifiers:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0 ---
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Chromium III	---
Temporary Modification(s):		Inorganic (mg/L)			Chromium III(T)	50 ---
Arsenic(chronic) = hybrid		acute	chronic	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		Ammonia	TVS	TVS	Copper	TVS TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).		Boron	---	0.75	Iron	---
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Chloride	---	250	Iron(T)	---
*Uranium(acute) = See 38.5(3) for details.		Chlorine	0.019	0.011	Lead	TVS TVS
*Uranium(chronic) = See 38.5(3) for details.		Cyanide	0.005	---	Lead(T)	50 ---
		Nitrate	10	---	Manganese	TVS TVS/WS
		Nitrite	---	0.5	Mercury(T)	---
		Phosphorus	---	0.17*	Molybdenum(T)	---
		Sulfate	---	WS	Nickel	TVS TVS
		Sulfide	---	0.002	Nickel(T)	---
					Selenium	TVS TVS
					Silver	TVS TVS
					Uranium	varies* varies*
					Zinc	TVS TVS

  

3. Jackson Reservoir, Prewitt Reservoir, North Sterling Reservoir, Jumbo (Julesburg), Empire Reservoir, Vancil Reservoir.						
COSPLS03	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture Aq Life Warm 1 Recreation E Water Supply	DM	MWAT	acute	chronic	
UP			Temperature °C	varies*	varies*	Arsenic
		acute	chronic	Arsenic(T)	---	0.02
		D.O. (mg/L)	---	5.0	Cadmium	TVS TVS
		pH	6.5 - 9.0	---	Cadmium(T)	5.0 ---
<b>Qualifiers:</b>		chlorophyll a (ug/L)	---	20*	Chromium III	---
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Chromium III(T)	50 ---
*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.		Inorganic (mg/L)			Chromium VI	TVS TVS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.		acute	chronic	Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Iron	---
*Uranium(chronic) = See 38.5(3) for details.		Boron	---	0.75	Iron(T)	---
*Temperature = See 38.6(4) for temperature standards.		Chloride	---	250	Lead	TVS TVS
		Chlorine	0.019	0.011	Lead(T)	50 ---
		Cyanide	0.005	---	Manganese	TVS TVS/WS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	---	0.5	Molybdenum(T)	---
		Phosphorus	---	0.083*	Nickel	TVS TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS TVS
					Silver	TVS TVS
					Uranium	varies* varies*
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower South Platte River Basin

4. All lakes and reservoirs tributary to the South Platte River from the Weld/Morgan County line to the Colorado/Nebraska border, except for listings in Segment 3.						
COSPLS04	Classifications	Physical and Biological			Metals (ug/L)	
Designation			DM	MWAT		
Reviewable		Temperature °C	WL	WL	Arsenic	340
			acute	chronic	Arsenic(T)	---
		D.O. (mg/L)	---	5.0	Beryllium(T)	---
Qualifiers:		pH	6.5 - 9.0	---	Cadmium	TVS
Water + Fish Standards		chlorophyll a (ug/L)	---	20*	Cadmium(T)	5.0
Other:		E. Coli (per 100 mL)	---	126	Chromium III	---
		Inorganic (mg/L)			Chromium III(T)	50
			acute	chronic	Chromium VI	TVS
		Ammonia	TVS	TVS	Copper	TVS
		Boron	---	0.75	Iron	---
		Chloride	---	250	Iron(T)	---
		Chlorine	0.019	0.011	Lead	TVS
		Cyanide	0.005	---	Lead(T)	50
		Nitrate	10	---	Manganese	TVS
		Nitrite	---	0.5	Mercury(T)	---
		Phosphorus	---	0.083*	Molybdenum(T)	---
		Sulfate	---	WS	Nickel	TVS
		Sulfide	---	0.002	Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	TVS

\*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.  
 \*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.  
 \*Uranium(acute) = See 38.5(3) for details.  
 \*Uranium(chronic) = See 38.5(3) for details.

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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Republican River Basin

1. Mainstem of the South Fork of the Republican River from a point 23 miles above the Colorado/Kansas border (39.582154, -102.350838) to the Colorado/Kansas border.							
COSPRE01	Classifications	Physical and Biological			Metals (ug/L)		
<b>Designation</b>	Agriculture		<b>DM</b>	<b>MWAT</b>		<b>acute</b>	<b>chronic</b>
Reviewable	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Recreation E		<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024			<b>acute</b>	<b>chronic</b>	Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = 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	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
2. Deleted.							
COSPRE02	Classifications	Physical and Biological			Metals (ug/L)		
<b>Designation</b>			<b>DM</b>	<b>MWAT</b>		<b>acute</b>	<b>chronic</b>
<b>Qualifiers:</b>			<b>acute</b>	<b>chronic</b>			
<b>Other:</b>		<b>Inorganic (mg/L)</b>					
			<b>acute</b>	<b>chronic</b>			

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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Republican River Basin

3. Mainstem of the North Fork of the Republican River from the source to the Colorado/Nebraska border. Mainstem of Chief Creek from the source to the confluence with the North Fork of the Republican River.							
COSPRE03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT				
Reviewable		acute	chronic	acute	chronic		
		Temperature °C	CS-II	CS-II	Arsenic	340 ---	
		D.O. (mg/L)	---	6.0	Arsenic(T)	--- 0.02	
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium	TVS TVS	
<b>Other:</b>	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.	pH	6.5 - 9.0	---	Cadmium(T)	5.0 ---	
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	---	Chromium III	--- TVS
		E. Coli (per 100 mL)	---	126	---	Chromium III(T)	50 ---
						Chromium VI	TVS TVS
						Copper	TVS TVS
						Iron	--- WS
						Iron(T)	--- 1000
						Lead	TVS TVS
						Lead(T)	50 ---
						Manganese	TVS TVS/WS
						Mercury(T)	--- 0.01
						Molybdenum(T)	--- 150
						Nickel	TVS TVS
						Nickel(T)	--- 100
						Selenium	TVS TVS
					Silver	TVS TVS(tr)	
					Uranium	varies* varies*	
					Zinc	TVS TVS	
4. Mainstem of the Arikaree River from the confluence of the North and South Forks to the Colorado/Kansas border.							
COSPRE04	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Warm 1 Water Supply Recreation E	DM	MWAT				
Reviewable		acute	chronic	acute	chronic		
		Temperature °C	WS-I	WS-I	Arsenic	340 ---	
		D.O. (mg/L)	---	5.0	Arsenic(T)	--- 0.02	
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium	TVS TVS	
<b>Other:</b>	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024  *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.	chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0 ---	
		E. Coli (per 100 mL)	---	126	---	Chromium III	--- TVS
						Chromium III(T)	50 ---
						Chromium VI	TVS TVS
						Copper	TVS TVS
						Iron	--- WS
						Iron(T)	--- 1000
						Lead	TVS TVS
						Lead(T)	50 ---
						Manganese	TVS TVS/WS
						Mercury(T)	--- 0.01
						Molybdenum(T)	--- 150
						Nickel	TVS TVS
						Nickel(T)	--- 100
						Selenium	TVS TVS
					Silver	TVS TVS	
					Uranium	varies* varies*	
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Republican River Basin

5. Mainstem of Black Wolf Creek from the source to the confluence with the Arikaree River.							
COSPREG05	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS
	*Uranium(acute) = See 38.5(3) for details.	E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
	*Uranium(chronic) = See 38.5(3) for details.	<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
			acute	chronic	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---	WS
		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

  

6. All tributaries to the Republican River system in Colorado, including all wetlands, except for listings in segments 1, 3, 4 and 5.							
COSPREG06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Water Supply		acute	chronic	Arsenic(T)	---	0.02
	Recreation P	D.O. (mg/L)	---	5.0	Beryllium(T)	---	100
Qualifiers:		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
Other:		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	---
	Temporary Modification(s):	E. Coli (per 100 mL)	---	205	Chromium III	---	TVS
	Arsenic(chronic) = hybrid	<b>Inorganic (mg/L)</b>			Chromium III(T)	50	---
	Expiration Date of 12/31/2024		acute	chronic	Chromium VI	TVS	TVS
	*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).	Ammonia	TVS	TVS	Copper	TVS	TVS
	*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).	Boron	---	0.75	Iron	---	WS
	*Uranium(acute) = See 38.5(3) for details.	Chloride	---	250	Iron(T)	---	1000
	*Uranium(chronic) = See 38.5(3) for details.	Chlorine	0.019	0.011	Lead	TVS	TVS
		Cyanide	0.005	---	Lead(T)	50	---
		Nitrate	10	---	Manganese	TVS	TVS/WS
		Nitrite	---	0.5	Mercury(T)	---	0.01
		Phosphorus	---	0.17*	Molybdenum(T)	---	150
		Sulfate	---	WS	Nickel	TVS	TVS
		Sulfide	---	0.002	Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					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 further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Republican River Basin

7. Mainstem of the North Fork of the Smoky Hill River and mainstem of the Smoky Hill River, including all tributaries and wetlands, from the source to the Colorado/Kansas border.							
COSPREG07	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2 Recreation P	Temperature °C	WS-III	WS-III	Arsenic	340	---
<b>Qualifiers:</b>			<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	100
<b>Other:</b>		D.O. (mg/L)	---	5.0	Beryllium(T)	---	100
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III	TVS	TVS
		E. Coli (per 100 mL)	---	205	Chromium III(T)	---	100
		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
			<b>acute</b>	<b>chronic</b>	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	---	Manganese	TVS	TVS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	100	---	Nickel	TVS	TVS
		Nitrite	---	0.5	Selenium	TVS	TVS
		Phosphorus	---	0.17*	Silver	TVS	TVS
		Sulfate	---	---	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS
8. All lakes and reservoirs tributary to the Republican River and Smoky Hill River in Colorado.							
COSPREG08	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1 Recreation E Water Supply	Temperature °C	WL	WL	Arsenic	340	---
<b>Qualifiers:</b>			<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02
<b>Other:</b>		D.O. (mg/L)	---	5.0	Beryllium(T)	---	4.0
*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
		chlorophyll a (ug/L)	---	20*	Cadmium(T)	5.0	---
		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
		<b>Inorganic (mg/L)</b>			Chromium III(T)	50	---
			<b>acute</b>	<b>chronic</b>	Chromium VI	TVS	TVS
		Ammonia	TVS	TVS	Copper	TVS	TVS
		Boron	---	0.75	Iron	---	WS
		Chloride	---	250	Iron(T)	---	1000
		Chlorine	0.019	0.011	Lead	TVS	TVS
		Cyanide	0.005	---	Lead(T)	50	---
		Nitrate	10	---	Manganese	TVS	TVS/WS
		Nitrite	---	0.5	Mercury(T)	---	0.01
		Phosphorus	---	0.083*	Molybdenum(T)	---	150
		Sulfate	---	WS	Nickel	TVS	TVS
		Sulfide	---	0.002	Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					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 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) Assessment of adequate refuge shall rely on the Cold Large Lake table value temperature criterion and applicable dissolved oxygen standard rather than the site-specific temperature standard.