

**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 12/31/2023

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		
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340
			acute	chronic	Arsenic(T)	---
		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):		chlorophyll a (ug/L)	7/1 - 9/30	---	10*	Chromium III(T)
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Copper	TVS
*chlorophyll a (ug/L)(chronic) = measured through samples that are representative of the mixed layer during July-Sept, with an allowable exceedance frequency of 1 in 5 yrs. See section 38.6(4) for assessment thresholds.			acute	chronic	Iron	---
*Phosphorus(chronic) = See section 38.6(4) for assessment thresholds.		Ammonia	TVS	TVS	Iron(T)	---
*Uranium(acute) = See 38.5(3) for details.		Boron	---	0.75	Lead	TVS
*Uranium(chronic) = See 38.5(3) for details.		Chloride	---	250	Lead(T)	50
*Temperature =		Chlorine	0.019	0.011	Manganese	TVS
DM=CLL and MWAT=CLL from 1/1-3/31		Cyanide	0.005	---	Mercury(T)	---
DM=CLL and MWAT=23.5 from 4/1-12/31		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Nitrogen	---	---	Nickel(T)	---
		Phosphorus	---	0.03*	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	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.						
COSPUS07	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340
			acute	chronic	Arsenic(T)	---
		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.		chlorophyll a (mg/m ²)	---	TVS	Chromium III(T)	50
*Uranium(chronic) = See 38.5(3) for details.		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	---	TVS	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
					Uranium	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	varies*	varies*	acute	chronic		
Qualifiers:		acute	chronic	Arsenic	340	---	
		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
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	D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
		Inorganic (mg/L)			Chromium III	---	TVS
		acute	chronic	Chromium III(T)	50	---	
		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	---	0.05	Manganese	TVS	TVS/WS
		Phosphorus	7/1 - 9/30	---	Mercury(T)	---	0.01
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS
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		
Qualifiers:		acute	chronic	Arsenic	340	---	
		D.O. (mg/L)	---	6.0	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.	D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
		Inorganic (mg/L)			Chromium III	---	TVS
		acute	chronic	Chromium III(T)	50	---	
		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	---	0.05	Manganese	TVS	TVS/WS
		Nitrogen	---	---	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(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

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	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT		acute	chronic
OW		CL	CL	Temperature °C	Arsenic	340 ---
		acute	chronic		Arsenic(T)	--- 0.02
		---	6.0	D.O. (mg/L)	Cadmium	TVS TVS
		---	7.0	D.O. (spawning)	Cadmium(T)	5.0 ---
		6.5 - 9.0	---	pH	Chromium III	--- TVS
		---	TVS	chlorophyll a (ug/L)	Chromium III(T)	50 ---
		---	126	E. coli (per 100 mL)	Chromium VI	TVS TVS
		Inorganic (mg/L)			Copper	TVS TVS
		acute	chronic		Iron	--- WS
		TVS	TVS	Ammonia	Iron(T)	--- 1000
		---	0.75	Boron	Lead	TVS TVS
		---	250	Chloride	Lead(T)	50 ---
		0.019	0.011	Chlorine	Manganese	TVS TVS/WS
		0.005	---	Cyanide	Mercury(T)	--- 0.01
		10	---	Nitrate	Molybdenum(T)	--- 150
		---	0.05	Nitrite	Nickel	TVS TVS
		---	TVS	Nitrogen	Nickel(T)	--- 100
		---	TVS	Phosphorus	Selenium	TVS TVS
		---	WS	Sulfate	Silver	TVS TVS(tr)
		---	0.002	Sulfide	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	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT		acute	chronic
Reviewable		CL	CL	Temperature °C	Arsenic	340 ---
		acute	chronic		Arsenic(T)	--- 0.02
		---	6.0	D.O. (mg/L)	Cadmium	TVS TVS
		---	7.0	D.O. (spawning)	Cadmium(T)	5.0 ---
		6.5 - 9.0	---	pH	Chromium III	--- TVS
		---	TVS	chlorophyll a (ug/L)	Chromium III(T)	50 ---
		---	126	E. coli (per 100 mL)	Chromium VI	TVS TVS
		Inorganic (mg/L)			Copper	TVS TVS
		acute	chronic		Iron	--- WS
		TVS	TVS	Ammonia	Iron(T)	--- 1000
		---	0.75	Boron	Lead	TVS TVS
		---	250	Chloride	Lead(T)	50 ---
		0.019	0.011	Chlorine	Manganese	TVS TVS/WS
		0.005	---	Cyanide	Mercury(T)	--- 0.01
		10	---	Nitrate	Molybdenum(T)	--- 150
		---	0.05	Nitrite	Nickel	TVS TVS
		---	TVS*	Nitrogen	Nickel(T)	--- 100
		---	TVS*	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

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 UP Aq Life Warm 2 Recreation E	DM	MWAT	acute chronic			
UP		WS-II	WS-II	Arsenic	340	---	
Qualifiers:	*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.	acute	chronic	Arsenic(T)	---	100	
Other:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
pH chlorophyll a (mg/m ²) E. coli (per 100 mL)		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m ²)	---	TVS	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	---	TVS	Uranium	varies*	varies*
	Sulfate	---	---	Zinc	TVS	TVS	
	Sulfide	---	0.002				
17a. Arvada Reservoir.							
COSPCL17A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture UP Aq Life Cold 2 Recreation E Water Supply DUWS	DM	MWAT	acute chronic			
UP		CLL	CLL	Arsenic	340	---	
Qualifiers:	*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.	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	---
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	---	Chromium III	---	TVS
		chlorophyll a (ug/L)	---	DUWS	Chromium III(T)	50	---
		chlorophyll a (ug/L)	---	TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
		Inorganic (mg/L)			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	
	Nitrogen	---	TVS	Selenium	TVS	TVS	
	Phosphorus	---	TVS	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 Clear Creek Basin

22. Lakes and reservoirs in the North Clear Creek drainage from a point just below the confluence with Chase Gulch to the confluence with Clear Creek.								
COSPCL22	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute chronic				
Reviewable*	Aq Life Cold 1 Recreation E	CL	CL	Temperature °C	Arsenic	340	---	
Qualifiers:		acute	chronic	D.O. (mg/L)	Arsenic(T)	---	7.6	
Other:	*Designation: 9/30/00 Baseline does not apply *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.			D.O. (spawning)	Cadmium	TVS	TVS	
				pH	Chromium III	TVS	TVS	
				chlorophyll a (ug/L)	Chromium III(T)	---	100	
				E. coli (per 100 mL)	Chromium VI	TVS	TVS	
				Inorganic (mg/L)			Copper	TVS
				acute	chronic	Iron(T)	---	
				Ammonia	Manganese	TVS	TVS	
				Boron	Mercury(T)	---	0.01	
				Chloride	Molybdenum(T)	---	150	
				Chlorine	Nickel	TVS	TVS	
				Cyanide	Selenium	TVS	TVS	
				Nitrate	Silver	TVS	TVS(tr)	
				Nitrite	Uranium	varies*	varies*	
				Nitrogen	Zinc	TVS	TVS	
				Phosphorus				
				Sulfate				
				Sulfide				
23. Ralston Reservoir								
COSPCL23	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute chronic				
Reviewable	Aq Life Cold 2 Recreation U Water Supply DUWS	CLL	CLL	Temperature °C	Arsenic	340	---	
Qualifiers:		acute	chronic	D.O. (mg/L)	Arsenic(T)	---	0.02	
Water + Fish Standards				D.O. (spawning)	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	Cadmium(T)	5.0	---	
				chlorophyll a (ug/L)	Chromium III	---	TVS	
				chlorophyll a (ug/L)	Chromium III(T)	50	---	
				E. coli (per 100 mL)	Chromium VI	TVS	TVS	
				Inorganic (mg/L)			Copper	TVS
				acute	chronic	Iron	---	
				Ammonia	Iron(T)	---	1000	
				Boron	Lead	TVS	TVS	
				Chloride	Lead(T)	50	---	
				Chlorine	Manganese	TVS	TVS/WS	
				Cyanide	Mercury(T)	---	0.01	
				Nitrate	Molybdenum(T)	---	150	
				Nitrite	Nickel	TVS	TVS	
				Nitrogen	Nickel(T)	---	100	
				Phosphorus	Selenium	TVS	TVS	
				Sulfate	Silver	TVS	TVS(tr)	
				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 Big Dry Creek Basin

7. Lakes and reservoirs in the Big Dry Creek system from the source to the confluence with the South Platte River, except for listings in Segments 2, 3, and 5b.								
COSPBD07	Classifications	Physical and Biological			Metals (ug/L)			
Designation		DM	MWAT		acute	chronic		
Reviewable	Agriculture							
	Aq Life Warm 2	WL	WL	Arsenic	340	---		
	Recreation P	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply			Beryllium(T)	---	100		
	DUWS*			pH	6.5 - 9.0	---		
Qualifiers:	Water + Fish Standards			chlorophyll a (ug/L)	---	DUWS		
				chlorophyll a (ug/L)	---	TVS		
Other:				E. coli (per 100 mL)	---	205		
				Inorganic (mg/L)				
							acute	chronic
				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)	---
				Nitrogen	---	TVS*	Molybdenum(T)	---
				Phosphorus	---	TVS*	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 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)		
		DM	MWAT	acute	chronic		
Designation	Agriculture						
	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
OW	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 (mg/m ²)	---	TVS	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	---	TVS	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)		
		DM	MWAT	acute	chronic		
Designation	Agriculture						
	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
Reviewable	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
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Copper	TVS	TVS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).			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	---	TVS*	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 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	Temperature °C	340	---
	Recreation E	acute	chronic		---	0.02
	Water Supply			D.O. (mg/L)	TVS	TVS
Qualifiers:				D.O. (spawning)	5.0	---
Other:				pH	---	TVS
*Uranium(acute) = See 38.5(3) for details.		6.5 - 9.0	---	chlorophyll a (mg/m ²)	---	---
*Uranium(chronic) = See 38.5(3) for details.				E. coli (per 100 mL)	TVS	---
					TVS	TVS
		Inorganic (mg/L)			TVS	TVS
		acute	chronic		---	WS
				Ammonia	---	1000
		TVS	TVS	Boron	TVS	TVS
		---	0.75	Chloride	50	---
		---	250	Chlorine	TVS	TVS/WS
		0.019	0.011	Cyanide	---	0.01
		0.005	---	Nitrate	---	150
		10	---	Nitrite	TVS	TVS
		---	0.05	Phosphorus	---	100
		---	TVS	Sulfate	TVS	TVS
		---	WS	Sulfide	TVS	TVS(tr)
		---	0.002		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	Temperature °C	340	---
	Recreation E	acute	chronic		---	0.02
	Water Supply			D.O. (mg/L)	TVS	TVS
Qualifiers:				D.O. (spawning)	5.0	---
Other:				pH	---	TVS
Temporary Modification(s):		6.5 - 9.0	---	chlorophyll a (mg/m ²)	---	---
Arsenic(chronic) = hybrid				E. coli (per 100 mL)	TVS	---
Expiration Date of 12/31/2024					TVS	TVS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).					TVS	TVS
*Uranium(acute) = See 38.5(3) for details.					---	150
*Uranium(chronic) = See 38.5(3) for details.					---	100
		Inorganic (mg/L)			TVS	TVS
		acute	chronic		---	1000
				Ammonia	TVS	TVS
		TVS	TVS	Boron	TVS	TVS
		---	0.75	Chloride	50	---
		---	250	Chlorine	TVS	TVS/WS
		0.019	0.011	Cyanide	---	0.01
		0.005	---	Nitrate	---	150
		10	---	Nitrite	TVS	TVS
		---	0.05	Phosphorus	---	100
		---	TVS*	Sulfate	TVS	TVS
		---	WS	Sulfide	TVS	TVS(tr)
		---	0.002		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
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (ug/L)	---	TVS	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

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
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Water + Fish Standards		chlorophyll a (ug/L)	---	TVS	Chromium III	---	TVS
Other:		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

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		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	---
Water + Fish Standards		chlorophyll a (ug/L)	---	TVS	Chromium III	---	TVS
Other:		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.		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

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		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 (ug/L)	---	TVS	Chromium III	---	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.		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
		Nitrogen	---	TVS	Nickel	TVS	TVS
		Phosphorus	---	TVS	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 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		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
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (ug/L)	---	TVS	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
Temporary Modification(s):		Ammonia	TVS	TVS	Iron	---	WS
Arsenic(chronic) = hybrid		Boron	---	0.75	Iron(T)	---	1000
Expiration Date of 12/31/2024		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

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	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies* ^B	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	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (ug/L)	---	DUWS	Chromium III(T)	50	---
Temporary Modification(s):		chlorophyll a (ug/L)	---	TVS	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Iron	---	WS
*Uranium(acute) = See 38.5(3) for details.			acute	chronic	Iron(T)	---	1000
*Uranium(chronic) = See 38.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Temperature =		Boron	---	0.75	Lead(T)	50	---
DM=CLL and MWAT=CLL from 1/1-3/31		Chloride	---	250	Manganese	TVS	TVS/WS
DM=CLL and MWAT=22.8 from 4/1-12/31		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
		Nitrogen		---	Selenium	TVS	TVS
		Phosphorus	---	---	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS

15. Watson Lake.							
COSPCP15	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
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (ug/L)	---	TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid		Inorganic (mg/L)			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	---	---	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

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)		
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
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)	---	TVS	Chromium III(T)	50	---
*Uranium(chronic) = See 38.5(3) for details.		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Temperature = See 38.6(4) for temperature standards.		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
		Nitrogen	---	TVS	Nickel(T)	---	100
		Phosphorus	---	TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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)		
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
Temporary Modification(s):		chlorophyll a (ug/L)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Copper	TVS	TVS
*Nitrogen(chronic) = applies only above the facilities listed at 38.5(4).			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
		Nitrogen	---	TVS*	Nickel(T)	---	100
		Phosphorus	---	TVS*	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

20. All lakes and reservoirs tributary to the North Fork of the Cache La Poudre River from the inlet of Halligan Reservoir to the confluence with the Cache La Poudre River. This segment includes Halligan Reservoir and Seaman Reservoir.						
COSPCP20	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 2	varies*	varies*	340	---	
	Recreation E	acute	chronic	---	0.02	
	Water Supply	---	6.0	TVS	TVS	
Qualifiers:		---	7.0	5.0	---	
Water + Fish Standards		6.5 - 9.0	---	---	TVS	
Other:		---	TVS	50	---	
Temporary Modification(s):		---	126	TVS	TVS	
Arsenic(chronic) = hybrid		Inorganic (mg/L)		TVS	TVS	
Expiration Date of 12/31/2024		acute	chronic	---	WS	
*Nitrogen(chronic) = applies only above the facilities listed at 38.5(4).		TVS	TVS	---	1000	
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		---	0.75	TVS	TVS	
*Uranium(acute) = See 38.5(3) for details.		---	250	50	---	
*Uranium(chronic) = See 38.5(3) for details.		0.019	0.011	TVS	TVS/WS	
*Temperature =		0.005	---	---	0.01	
DM and MWAT=CL,CLL from 1/1-3/31		10	---	TVS	TVS	
Seaman Reservoir		---	0.05	---	100	
DM=CLL and MWAT=22.5 from 4/1-12/31		---	TVS*	TVS	TVS	
All others		---	TVS*	TVS	TVS(tr)	
DM and MWAT=CL,CLL from 4/1-12/31		---	WS	varies*	varies*	
		---	0.002	TVS	TVS	
21. All lakes and reservoirs tributary to 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 the confluence with the South Platte River, except for listings in segments 14, 15, 16, 19, 20, and 22.						
COSPCP21	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 2	WL	WL	340	---	
	Recreation E	acute	chronic	---	0.02-10 ^A	
	Water Supply	---	5.0	TVS	TVS	
	DUWS*	6.5 - 9.0	---	5.0	---	
Qualifiers:		---	DUWS	---	TVS	
Other:		---	TVS	50	---	
*Classification: DUWS applies to North Poudre Reservoir No. 3.		---	126	TVS	TVS	
*Nitrogen(chronic) = applies only above the facilities listed at 38.5(4).		Inorganic (mg/L)		TVS	TVS	
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		acute	chronic	---	WS	
*Uranium(acute) = See 38.5(3) for details.		TVS	TVS	---	1000	
*Uranium(chronic) = See 38.5(3) for details.		---	0.75	TVS	TVS	
		---	250	50	---	
		0.019	0.011	TVS	TVS/WS	
		0.005	---	---	0.01	
		10	---	TVS	TVS	
		---	0.5	---	100	
		---	TVS*	TVS	TVS	
		---	TVS*	TVS	TVS	
		---	WS	varies*	varies*	
		---	0.002	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

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	DM	MWAT		acute	chronic
OW	Aq Life Cold 1	CS-I	CS-I	Temperature °C	340	---
	Recreation E	acute	chronic		---	0.02
	Water Supply			D.O. (mg/L)	TVS	TVS
Qualifiers:				D.O. (spawning)	5.0	---
Other:				pH	---	TVS
*Uranium(acute) = See 38.5(3) for details.		6.5 - 9.0	---	chlorophyll a (mg/m ²)	---	---
*Uranium(chronic) = See 38.5(3) for details.				E. coli (per 100 mL)	TVS	---
					---	126
		Inorganic (mg/L)			TVS	TVS
		acute	chronic		---	WS
				Ammonia	---	1000
		TVS	TVS	Boron	TVS	TVS
		---	0.75	Chloride	50	---
		---	250	Chlorine	TVS	TVS/WS
		0.019	0.011	Cyanide	---	0.01
		0.005	---	Nitrate	---	150
		10	---	Nitrite	TVS	TVS
		---	0.05	Phosphorus	---	100
		---	TVS	Sulfate	TVS	TVS
		---	WS	Sulfide	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	DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	CS-I	CS-I	Temperature °C	340	---
	Recreation E	acute	chronic		---	0.02
	Water Supply			D.O. (mg/L)	TVS	TVS
Qualifiers:				D.O. (spawning)	5.0	---
Other:				pH	---	TVS
Temporary Modification(s):		6.5 - 9.0	---	chlorophyll a (mg/m ²)	---	---
Arsenic(chronic) = hybrid				E. coli (per 100 mL)	TVS	---
Expiration Date of 12/31/2024					---	126
*Uranium(acute) = See 38.5(3) for details.					TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.					---	WS
		Inorganic (mg/L)			---	1000
		acute	chronic		TVS	TVS
		TVS	TVS	Ammonia	50	---
		---	0.75	Boron	TVS	TVS/WS
		---	250	Chloride	---	0.01
		0.019	0.011	Chlorine	---	150
		0.005	---	Cyanide	TVS	TVS
		10	---	Nitrate	---	100
		---	0.05	Nitrite	TVS	TVS
		---	TVS	Phosphorus	TVS	TVS(tr)
		---	WS	Sulfate	varies*	varies*
		---	0.002	Sulfide	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.							
COSPRE07	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture UP Aq Life Warm 2 Recreation P	DM	MWAT		acute	chronic	
		WS-III	WS-III	Temperature °C	Arsenic	340	---
		acute	chronic		Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Beryllium(T)	---	100
Other:	<p>*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.</p>	pH	6.5 - 9.0	---	Cadmium	TVS	TVS
		chlorophyll a (mg/m ²)	---	TVS	Chromium III	TVS	TVS
		E. coli (per 100 mL)	---	205	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	---	TVS*	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.							
COSPRE08	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Reviewable Aq Life Warm 1 Recreation E Water Supply	DM	MWAT		acute	chronic	
		WL	WL	Temperature °C	Arsenic	340	---
		acute	chronic		Arsenic(T)	---	0.02
Qualifiers:		D.O. (mg/L)	---	5.0	Beryllium(T)	---	4.0
Other:	<p>Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Nitrogen(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.</p>	pH	6.5 - 9.0	---	Cadmium	TVS	TVS
		chlorophyll a (ug/L)	---	TVS	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
		Nitrogen	---	TVS*	Molybdenum(T)	---	150
		Phosphorus	---	TVS*	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.