DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Water Quality Control Commission

REGULATION NO. 33 - CLASSIFICATIONS AND NUMERIC STANDARDS FOR UPPER COLORADO RIVER BASIN AND NORTH PLATTE RIVER (PLANNING REGION 12)

5 CCR 1002-33

[Editor's Notes follow the text of the rules at the end of this CCR Document.]

33.1 AUTHORITY

These regulations are promulgated pursuant to section 25-8-101 et seq. C.R.S., as amended, and in particular, 25-8-203 and 25-8-204.

33.2 PURPOSE

These regulations establish classifications and numeric standards for the Colorado River, the Yampa River, and the North Platte River, including all tributaries and standing bodies of water as indicated in section 33.6. The classifications identify the actual beneficial uses of the water. The numeric standards are assigned to determine the allowable concentrations of various parameters. Discharge permits will be issued by the Water Quality Control Division to comply with basic, narrative, and numeric standards and control regulations so that all discharges to waters of the state protect the classified uses. It is intended that these and all other stream classifications and numeric standards be used in conjunction with and be an integral part of Regulation No. 31 Basic Standards and Methodologies for Surface Water.

33.3 INTRODUCTION

These regulations and tables present the classifications and numeric standards assigned to stream segments listed in the attached tables (See Appendix 33-1). As additional stream segments are classified and numeric standards for designated parameters are assigned for this drainage system, they will be added to or replace the numeric standards in the tables in Appendix 33-1. Any additions or revisions of classifications or numeric standards can be accomplished only after public hearing by the Commission and proper consideration of evidence and testimony as specified by the statute and the Basic Standards and Methodologies for Surface Water.

33.4 DEFINITIONS

See the Colorado Water Quality Control Act and the codified water quality regulations for definitions.

33.5 BASIC STANDARDS

(1) Temperature

All waters of Region 12 are subject to the following standard for temperature. (Discharges regulated by permits, which are within the permit limitations, shall not be subject to enforcement proceedings under this standard). Temperature shall maintain a normal pattern of diurnal and seasonal fluctuations with no abrupt changes and shall have no increase in temperature of a magnitude, rate, and duration deemed deleterious to the resident aquatic life. This standard shall not be interpreted or applied in a manner inconsistent with section 25-8-104, C.R.S.

(2) Qualifiers

See Basic Standards and Methodologies for Surface Water for a listing of organic standards at 31.11 Table B and metal standards found at 31.16 Table III. The column in the tables headed "Water Fish" are presumptively applied to all Aquatic Life class 1 streams and are applied to Aquatic Life class 2 streams on a case-by-case basis as shown in Appendix 33-1. The column in the tables at 31.11 headed "Fish Ingestion" is presumptively applied to all Aquatic Life class 1 streams which do not have a water supply classification, and are applied to Aquatic Life class 2 streams which do not have a water supply classification, on a case-by-case basis as shown in Appendix 33-1.

(3) Uranium

- (a) All waters of the Upper Colorado River Basin, are subject to the following basic standard for uranium, unless otherwise specified by a water quality standard applicable to a particular segment. However, discharges of uranium regulated by permits which are within these permit limitations shall not be a basis for enforcement proceedings under this basic standard.
- (b) Uranium level in surface waters shall be maintained at the lowest practicable level.
- (c) In no case shall uranium levels in waters assigned a water supply classification be increased by any cause attributable to municipal, industrial, or agricultural discharges so as to exceed 16.8-30 µg/L or naturally-occurring concentrations (as determined by the State of Colorado), whichever is greater.
 - (i) The first number in the 16.8-30 μg/L 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.

(4) Nutrients

Prior to December 31, 2022 for chlorophyll a and prior to December 31, 2027 for total phosphorus, interim nutrient values will be considered for adoption only in the limited circumstances defined at 31.17(e) and (f). These circumstances include headwaters, Direct Use Water Supply (DUWS) Lakes and Reservoirs, and other special circumstances determined by the Commission. Additionally, prior to December 31, 2027, only total phosphorus and chlorophyll a will be considered for adoption. After December 31, 2027, total nitrogen will be considered for adoption per the circumstances outlined in 31.17(g).

Prior to December 31, 2027, nutrient criteria will be adopted for headwaters on a segment by segment basis for the Upper Colorado and North Platte River Basins. Moreover, pursuant to 31.17(e) nutrient standards will only be adopted for waters upstream of all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012, and any non-domestic facilities subject to Regulation 85 effluent limits and discharging prior to May 31, 2012. The following is a list of all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012, and any non-domestic facilities subject to Regulation 85 effluent limits and discharging prior to May 31, 2012 in the Upper Colorado and North Platte River Basins:

Segment	Permittee	Facility name	Permit No.
COUCUC03	Colorado Dept of Transportation	Grizzly Creek Res Area WWTF	COG588067
COUCUC03	Rock Gardens MHP	Rock Gardens MHP & Campground	COG588083
COUCUC03	Colorado Dept of Transportation	Hanging Lake Res Area WWTF	COG588076
COUCUC03	Colorado Dept of Transportation	Bair Ranch Rest Area	COG588075
COUCUC03	Hermes Group	Two Rivers Village Metro Dist WWTF	COG588070
COUCUC03	Roundup River Ranch	Roundup River Ranch WWTF	COG588116
COUCUC03	Hot Sulphur Springs Town of	Hot Sulphur Springs WWTF	COG588084
COUCUC03	Allegient Management	Ouray Ranch Homeowners Assn WWTF	COG588041
COUCUC06a	C Lazy U Ranch Holdings LLC % Triton Investment Co	C Lazy U Ranch, INC.	COG588072
COUCUC06b	Three Lakes Water and Sanitation District	Willow Creek Lagoons	CO0037681
COUCUC07e		Kremmling Sanitation Dist WWTF	CO0048437
COUCUC10a	Winter Park Water and Sanitation District	Winter Park WSD WWTF	CO0026051
COUCUC10a	Young Life Campaign Inc	Crooked Creek Ranch	CO0045411
COUCUC10a	Colorado Mountain Resort Investors LLC	Devil's Thumb Ranch	CO0046566
COUCUC10a	Tabernash Meadows WSD	Tabernash Meadows WSD WWTF	CO0045501
COUCUC10c	Fraser Town of	Upper Fraser Valley TP	CO0040142
COUCUC10c		Granby Sanitation District	CO0020699
COUCBL02a	Upper Blue Sanitation Dist	Iowa Hill Water Reclamation	CO0045420
COUCBL08	Dundee Realty USA LLC	Arapahoe Basin Ski Area	CO0023876
COUCBL13	Copper Mountain Consolidated Metro Dist	Copper Mtn Cons Metro District	CO0021598
COUCBL17	Silverthorne/Dillon Joint Sewer Authority	Blue River WWTF	CO0020826
COUCBL22	Frisco Sanitation District	Frisco Sanitation District WWTF	CO0020451
COUCBL22	Snake River WWTF	Summit County Snake River WWTP	CO0029955
COUCBL22	Upper Blue Sanitation District	Farmers Korner WWTF	CO0021539
COUCEA02	Red Cliff Town of	Red Cliff Town of WWTP	CO0021385
COUCEA08	Eagle River WSD	Vail WWTF	CO0021369
COUCEA09a		Avon WWTP	CO0024431
COUCEA09a		Edwards WWTF	CO0037311
COUCEA09b		Eagle Town of WWTP	CO0048241
COUCEA09b		Gypsum Town of WWTF	CO0048830
COUCRF03a	Aspen Consolidated Sanitation District	Aspen Consolidated San District	CO0026387
COUCRF03a		Woody Creek Mobile Home Park	COG588103
COUCRF03a	Aspen Village Inc c/o Independence Environmental Services	Aspen Village, INC.	COG588085
COUCRF03a	Riversbend HOA	Riverbend Apartments	COG588066
COUCRF03a	Independence Environmental Services	Lazy Glen Homeowners Assoc.	COG588049
COUCRF03a	Basalt SD	Basalt Sanitation District	COG588063

Segment	Permittee	Facility name	Permit No.
COUCRF03a	Ranch at Roaring Fork c/o Independence Environmental Services	Ranch at Roaring Fork HOA	COG588051
COUCRF03a	Carbondale Town of	Carbondale Town of	COG588050
COUCRF03a	Roaring Fork Water and San District	Roaring Fork WSD WWTF	CO0044750
COUCRF03a	Spring Valley SD	Spring Valley SD WWTF	CO0046124
COUCRF03a	Oak Meadows Service Company	Oak Meadows WWTF	CO0045802
COUCRF03c	Sunlight Inc	Sunlight, INC.	CO0038598
COUCRF03c	Mid Valley Metro District	Mid Valley Metro Dist WWTF	COG588105
COUCRF03c	Blue Creek Ranch LLC	Blue Creek Ranch	COG588074
COUCRF03c	H Lazy F LLC	H Lazy F MHP WWTF	COG588035
COUCRF03c	El Rocko Mobile Home Park	El Rocko MHP	COG588029
COUCRF04	Snowmass WSD	Snowmass WSD	CO0023086
COUCRF08	Sopris Engineering LLC	Redstone Castle WWTF	COG588115
COUCRF08	Redstone WSD	Redstone WSD WWTF	CO0046370
COUCNP05b	Walden Town of	Walden Town of WWTF	CO0020788
COUCYA02a	Yampa Town of	Yampa WWTF	CO0030635
COUCYA02a	Routt County	Milner Community WWTF	CO0047449
COUCYA02c	Hayden Town of	Hayden Town WWTF	CO0040959
COUCYA02c	Steamboat Springs City of	Steamboat Springs, City of	CO0020834
COUCYA03	Whiteman School	Whiteman School	CO0031062
COUCYA04	Routt County Phippsburg/Dept of Envir Hlth	Routt CO for Phippsburg Comm WWTF	COG589026
COUCYA07	Oak Creek Town of	Oak Creek, Town of	CO0041106
COUCYA08	Steamboat Lake Water and Sanitation Dist	Steamboat Lake Water & Sanitation Dist WWTF	CO0035556
COUCYA22	Morrison Creek Metropolitan Water and Sanitation District	Morrison Creek Metro WWTF	CO0022969
COUCYA22	Steamboat Lake Water and Sanitation Dist	Steamboat Lake Water & Sanitation Dist WWTF	CO0035556

Prior to December 31, 2027:

- For segments located entirely above these facilities, nutrient standards apply to the entire segment.
- For segments with portions downstream of these facilities, *nutrient standards* only apply above these facilities. A note was added to the total phosphorus and chlorophyll a standards in these segments. The note references the table of qualified facilities at 33.5(4).
- For segments located entirely below these facilities, nutrient standards do not apply

A note was added to the total phosphorus and chlorophyll a standards in lakes segments as nutrients standards apply only to lakes and reservoirs larger than 25 acres surface area.

33.6 TABLES

(1) <u>Introduction</u>

The numeric standards for various parameters in this regulation and in the tables in Appendix 33 1 were assigned by the Commission after a careful analysis of the data presented on actual stream conditions and on actual and potential water uses. For each parameter listed in the tables in Appendix 33-1, only the most stringent standard is shown. Additional, less stringent standards may apply to protect additional uses and can be found in the tables in Regulation No. 31.

Numeric standards are not assigned for all parameters listed in the tables in Regulation No. 31. If additional numeric standards are found to be needed during future periodic reviews, they can be assigned by following the proper hearing procedures.

(2) Abbreviations

(a) The following abbreviations are used in this regulation and in the tables in Appendix 33-1:

ac = acute (1-day)
°C = degrees Celsius
ch = chronic (30-day)

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 = daily maximum temperature DM **DUWS** direct use water supply =

D.O. = dissolved oxygen

E. coli = Escherichia coli

mg/L = milligrams per liter

MWAT = maximum weekly average temperature

OW = outstanding waters

sc = sculpin sp = spawning

SSE = site-specific equation T = total recoverable

 $egin{array}{lll} t &=& total \ tr &=& trout \end{array}$

TVS = table value standard μg/L = micrograms per liter UP = use-protected

WL = warm lake temperature tier

WS = water supply

WS-I = warm stream temperature tier one WS-II = warm stream temperature tier two WS-III = warm stream temperature tier three

(b) In addition, the following abbreviations were used:

Iron (chronic) = WS Manganese (chronic) = WS Sulfate (chronic) = WS These abbreviations mean: For all surface waters with an actual Water Supply use, the less restrictive of the following two options shall apply as numerical chronic standards, as specified in the Basic Standards and Methodologies at 31.16 Table II and III:

(i) existing quality as of January 1, 2000; or

(ii) Iron = $300 \mu g/L$ (dissolved) Manganese = $50 \mu g/L$ (dissolved) Sulfate = $250 \mu g/L$ (dissolved)

For all surface waters with a "water supply" classification that are not in actual use as a water supply, no water supply standards are applied for iron, manganese or sulfate, unless the Commission determines as the result of a site-specific rulemaking hearing that such standards are appropriate.

- (c) Temporary Modification for Water + Fish Chronic Arsenic Standard
 - (i) The temporary modification for chronic arsenic standards applied to segments with an arsenic standard of 0.02 μg/L that has been set to protect the Water + Fish qualifier is listed in the Other column in Appendix 33-1 tables as As(ch)=hybrid.
 - (ii) For discharges existing on or before 6/1/2013, the temporary modification is: As(ch)=current condition, expiring on 12/31/2024. Where a permit for an existing discharge is reissued or modified while the temporary modification is in effect, the division will include additional permit Terms and Conditions, which may include requirements for additional monitoring, source identification, and characterization of source control and treatment options for reducing arsenic concentrations in effluent.
 - (iii) For new or increased discharges commencing on or after 6/1/2013, the temporary modification is: As(ch)=0.02-3.0 μg/L (total recoverable), expiring on 12/31/2024.
 - (a) The first number in the range is the health-based water quality standard previously adopted by the Commission for the segment.
 - (b) The second number in the range is a technology based value established by the Commission for the purpose of this temporary modification.
 - (c) 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-ofpipe" discharge level more restrictive than the second number in the range.

(3) Table Value Standards

In certain instances in the tables in Appendix 33-1, the designation "TVS" is used to indicate that for a particular parameter a "table value standard" has been adopted. This designation refers to numerical criteria set forth in the Basic Standards and Methodologies for Surface Water. The criteria for which the TVS are applicable are on the following table.

TABLE VALUE STANDARDS (Concentrations in µg/L unless noted)

PARAMETER ⁽¹⁾	TABLE VALUE STANDARDS(2)(3)					
Aluminum(T)	Acute = e ^{(1.3695*ln(hardness)+1.8308)}					
	pH equal to or greater than 7.0					
	Chronic = $e^{(1.3695*In(hardness)-0.1158)}$					
	pH less than 7.0					
	Chronic = e ^{(1.3695*In(hardness)-0.1158)} or 87, whichever is more stringent					
Ammonia ⁽⁴⁾	Cold Water = (mg/L as	N)Total			
		0.275	39.0			
	$acute = {1+1}$	0 ^{7.204–}	$\frac{39.0}{1+10} + \frac{39.0}{1+10}$			
	$chronic = \left(\frac{1}{1+1}\right)$	$\frac{0.0577}{0^{7.688-ph}}$	$\frac{2.487}{1+10^{pH-7.688}}$ * MIN(2)	2.85, 1.45 * 10 0.028	(25–T)	
	Warm Water =	(mg/L a	s N)Total			
			•			
	$acute = {1+10}$	7.204-	$\frac{1}{pH} + \frac{1}{1+10} \frac{pH-7.204}{1+10}$			
	chronic (Apr 1 – Au	$ug31) = \begin{pmatrix} -1 \\ 1 \end{pmatrix}$	$\frac{58.4}{1+10^{pH}-7.204} + \frac{58.4}{1+10^{pH}-7.204} + \frac{0.0577}{1+10^{7.688-pH}} + \frac{2.487}{1+10^{pH}-7.688}$	* MIN (2.85, 1.45 *	10 0.028(25-T))
	$chronic (Sep 1 - Mar 31) = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}}\right) * 1.45 * 10^{0.028*(25 - MAX(T, 7))}$					
Cadmium	Acute(warm) ⁽⁵⁾ = $(1.136672-(ln(hardness)*0.041838))*e^{(0.9789*ln(hardness)*3.443)}$ Acute(cold) ⁽⁵⁾ = $(1.136672-(ln(hardness)*0.041838))*e^{(0.9789*ln(hardness)*3.866)}$					
Chromium III ⁽⁶⁾	Chronic = $(1.101672 - (In(hardness)*0.041838))*e^{(0.7977*In(hardness)-3.909)}$ Acute = $e^{(0.819*In(hardness)+2.5736)}$					
Onioman iii	Chronic = $e^{(0.819^{+}ln(hardness)+0.5340)}$					
Chromium VI ⁽⁶⁾	Acute = 16					
	Chronic = 11					
Copper	Acute= e ^{(0.9422*In(hardness)-1.7408)}					
	Chronic= e ^{(0.8545*In(hardness)-1.7428)}					
Lead	Acute= (1.46203-(In(hardness)*0.145712))*e(1.273*In(hardness)-1.46)					
	Chronic=(1.46203-(In(hardness)*0.145712))*e ^{(1.273*In(hardness)-4.705)} Acute= e ^{(0.3331*In(hardness)+6.4676)}					
Manganese	Acute= e ^(0.3331*)	n(hardness)	+6.4676)			
	Chronic= e(0.3331*ln(hardness)+5.8743)					
Nickel	Acute= $e^{(0.846*ln(hardness)+2.253)}$					
(7)	Chronic= e ^{(0.846*ln(hardness)+0.0554)}					
Selenium ⁽⁷⁾	Acute = 18.4					
0.1	Chronic = 4.6 Acute= $0.5*e^{(1.72*ln(hardness)-6.52)}$					
Silver	Acute= $0.5^*e^{(1)}$ Chronic = $e^{(1.72)}$	/Z III(IIaiuiie	21.9 06)			
	Chronic = e(1)/2	. III(IIaIaIIc3c	n(hardness)-10 51)			
Tomporatura	Chronic(frout)	<u> – e, </u>	T	1	TEMPER	ATLIRE
Temperature	TEMPERATUR TIER SPECIES EXPECTED TO BE APPLICABLE STANDARD (%)					
	TIER	CODE	PRESENT	MONTHS	(MWAT)	(DM)
	Cold Stream	CS-I	brook trout, cutthroat trout	June – Sept.	17.0	21.7
	Tier I ⁽⁸⁾			Oct. – May	9.0	13.0
	Cold Stream	CS-II	all other cold-water species	April – Oct.	18.3	24.3
	Tier II ⁽⁸⁾			Nov. – March	9.0	13.0
	Cold Lake ⁽⁹⁾	CL	brook trout, brown trout,	April – Dec.	17.0	21.2
			cutthroat trout, lake trout, rainbow trout, Arctic grayling, sockeye salmon	Jan. – March	9.0	13.0

	Cold Large Lake (>100	CLL	brown trout, lake trout, rainbow trout	April – Dec.	18.3	24.2
	acres surface area) ⁽⁹⁾		Jan. – March	9.0	13.0	
	Warm Stream	WS-I	common shiner, Johnny	March – Nov.	24.2	29.0
	Tier I		darter, orangethroat darter, stonecat	Dec. – Feb.	12.1	24.6
	Warm Stream WS-II brook stickleback, central stoneroller, creek chub, longnose dace, Northern		March – Nov.	27.5	28.6	
			redbelly dace, finescale dace, razorback sucker, white sucker, mountain sucker	Dec. – Feb.	13.8	25.2
	Warm Stream	WS-III	all other warm-water species	March – Nov.	28.7	31.8
	Tier III			Dec. – Feb.	14.3	24.9
	Warm Lakes	WL	yellow perch, walleye, pumpkinseed, smallmouth bass, striped bass, white bass, largemouth bass,	April – Dec.	26.2	29.3
			bluegill, spottail shiner, stonecat, northern pike, tiger muskellunge, black crappie, common carp, gizzard shad, sauger, white crappie, wiper	Jan. – March	13.1	24.1
Uranium	Acute= e(1.1021*)	n(hardness)	+2.7088)			
	Chronic= e(1.1021*In(hardness)+2.2382)					
Zinc	Acute = 0.978*e ^{(0.9094*In(hardness)+0.9095)}					
	Chronic = 0.986*e (0.9094*In(hardness)+0.6235) Where hardness is less than 102 mg/L CaCO³ and mottled sculpin are expected to					
	be present:					
	Chronic (sculpin) = $e^{(2.140*ln(hardness)-5.084)}$					

TABLE VALUE STANDARDS - FOOTNOTES

- (1) Metals are stated as dissolved unless otherwise specified.
- (2) Hardness values to be used in equations are in mg/L as calcium carbonate and shall be no greater than 400 mg/L, except for aluminum for which hardness shall be no greater than 220 mg/L. The hardness values used in calculating the appropriate metal standard should be based on the lower 95 percent confidence limit of the mean hardness value at the periodic low flow criteria as determined from a regression analysis of site-specific data. Where insufficient site-specific data exists to define the mean hardness value at the periodic low flow criteria, representative regional data shall be used to perform the regression analysis. Where a regression analysis is not appropriate, a site-specific method should be used. In calculating a hardness value, regression analyses should not be extrapolated past the point that data exist.
- (3) Both acute and chronic numbers adopted as stream standards are levels not to be exceeded more than once every three years on the average.
- (4) For acute conditions the default assumption is that salmonids could be present in cold water segments and should be protected, and that salmonids do not need to be protected in warm water segments. For chronic conditions, the default assumptions are that early life stages could be present all year in cold water segments and should be protected. In warm water segments the default assumption is that early life stages are present and should be protected only from April 1 through August 31. These assumptions can be modified by the Commission on a site-specific basis where appropriate evidence is submitted. The "T" in the chronic equations stands for temperature.

- (5) The acute(warm) cadmium equation applies to segments classified as Aquatic Life Warm Class 1 or 2. The acute(cold) cadmium equation applies to segments classified as Aquatic Life Cold Class 1 or 2.
- Unless the stable forms of chromium in a waterbody have been characterized and shown not to be predominantly chromium VI, data reported as the measurement of all valence states of chromium combined should be treated as chromium VI. In addition, in no case can the sum of the concentrations of chromium III and chromium VI or data reported as the measurement of all valence states of chromium combined exceed the water supply standards of 50 μg/L chromium in those waters classified for domestic water use.
- (7) Selenium is a bioaccumulative metal and subject to a range of toxicity values depending upon numerous site-specific variables.
- (8) Mountain whitefish-based summer temperature criteria [16.9 (ch), 21.2 (ac)] apply when and where spawning and sensitive early life stages of this species are known to occur.
- (9) Lake trout-based summer temperature criteria [16.6 (ch), 22.4 (ac)] apply where appropriate and necessary to protect lake trout from thermal impacts.

(4) <u>Site-Specific Standards, Assessment Locations and Assessment Criteria</u>

(a) Upper Colorado River Segment 3: Temperature Standards

Upper Colorado from below the confluence with the Blue River to below the confluence with the Roaring Fork River.

$$DM = 21.2$$
 and $MWAT = 16.9$ from $4/1 - 5/31$

DM and MWAT = CS-II from 6/1 - 9/30

DM = 21.2 and MWAT = 16.9 from 10/1 - 10/31

DM and MWAT = CS-II from 11/1 - 3/31

All other locations DM and MWAT = CS-II

(b) Upper Colorado River Segment 7a: Temperature Standards

Canyon Creek

$$DM = 21.2$$
 and $MWAT = 16.9$ from $4/1 - 5/31$

DM and MWAT = CS-II from 6/1 - 9/30

DM = 21.2 and MWAT = 16.9 from 10/1 - 10/31

DM and MWAT = CS-II from 11/1 - 3/31

All other locations DM and MWAT = CS-II

(c) Upper Colorado Segment 12: Temperature Standards

All locations DM and MWAT = CL,CLL from 1/31 - 3/31

Grand Lake DM = 22.4 and MWAT = 16.6 from 4/1 - 12/31

Lake Granby DM = 22.4 and MWAT = 19.6 from 4/1- 12/31

Shadow Mountain Reservoir DM = CLL and MWAT = 19.3 from 4/1 - 12/31

All other locations DM and MWAT = CL,CLL from 4/1 - 12/31

(d) Upper Colorado Segment 13: Temperature Standards

All locations DM and MWAT = CL,CLL from 1/31 - 3/31

Wolford Mountain Reservoir DM = CLL and MWAT = 21.3 from 4/1 – 12/31

Williams Fork Reservoir DM = 22.4 and MWAT = 21.6 from 4/1-12/31

Deep Lake DM = CL and MWAT = 16.6 from 4/1 - 12/31

All other locations DM and MWAT = CL/CLL from 4/1 - 12/31

(e) Roaring Fork River Segment 3c: Temperature Standards

DM = 21.2 and MWAT = 16.9 from 4/1 - 5/31

DM and MWAT = CS-II from 6/1 - 9/30

DM = 21.2 and MWAT = 16.9 from 10/1 - 10/31

DM and MWAT = CS-II from 11/1 - 3/31

(f) North Platte River Segment 9: Temperature Standards

All locations DM and MWAT = CL, CLL from 1/1 - 1/31

Lower Big Creek Lake and Upper Big Creek Lake DM = 22.4 and MWAT = 16.6 from 4/1 -12/31

Agua Fria Lake DM = CL and MWAT = 16.6 from 4/1 - 12/31

South Delaney Lake DM = CLL and MWAT = 18.8 from 4/1 - 12/31

North Delaney Lake DM = CLL and MWAT = 20.1 from 4/1 - 12/31

Lake John DM = CLL and MWAT = 21.2 from 4/1 - 12/31

All other locations DM and MWAT= CL, CLL from 4/1-12/31

(g) Yampa River Segment 2b: Temperature Standards

Yampa River from above the confluence with Oak Creek to below the confluence with Dry Creek.

DM = 21.2 and MWAT = 16.9 from 4/1 - 5/31

DM and MWAT = CS-II from 6/1 - 9/30

DM = 21.2 and MWAT = 16.9 from 10/1 - 10/31

DM and MWAT = CS-II from 11/1 - 3/31

Yampa River below confluence with Dry Creek DM and MWAT = CS-II

(h) Yampa River Segment 13b: Iron Standards and Assessment Locations

Iron Standards:

Middle Creek:

March-June, Iron(chronic) = 2090(T), median of all data

July-February, Iron(chronic) = 1000(T)

Foidel Creek Iron(chronic) = 1000(T), median of all data

Iron Assessment Locations:

Middle Creek Site G-MC-2/Site 29: located at 40°23'48.3"N, 106°58'47.0"W.

Foidel Creek Site 14: located at 40°33'48.6"N, 107°08'63.5"W.

Foidel Creek Site 8: located at 40°21'55.7"N, W107°02'43.6"W.

Foidel Creek Site 900: located at 40°23'24.7"N, 106°59'40.9"W.

(i) Yampa River Segment 13b: Temperature Standards

Fish Creek

DM = 21.2 and MWAT = 16.9 from 4/1 - 5/31

DM and MWAT = WS-II from 6/1 - 9/30

DM = 21.2 and MWAT = 16.9 from 10/1 - 10/31

DM and MWAT = WS-II from 11/1 - 3/31

All other locations DM and MWAT = WS-II

(j) Yampa River Segment 13d: Iron Standards and Assessment Locations

Iron Standards:

March-April, Iron(chronic) = 3040(T), snowmelt season median values

May-February, Iron(chronic) = 1110(T), no-snowmelt season median values

Iron Assessment Locations:

Seneca II-W Stream Site 7 on Hubberson Gulch (WSH7): located in the middle reaches of Hubberson Gulch

Seneca II-W Flume Site 1 on Hubberson Gulch (WSHF1): located on Hubberson Gulch just upstream of its confluence with Dry Creek

Seneca II-W Stream Site 5 on Dry Creek (WSD5): located in the middle reaches of Dry Creek

(k) Yampa River Segment 13e: Iron Standards and Assessment Locations

Iron Standards:

Upper Sage Creek: Iron(chronic) = 1250(T), median of all data

Lower Sage Creek: Iron(chronic) = 1000(T), median of all data

Break between Upper and Lower Sage Creek is the west border of Section 18, T5N, R87W.

Iron Assessment Locations:

Yoast Stream Site 2 on Sage Creek (YSS2): located upstream of the west border of Section 18, T5N, R87W

Seneca II-W Stream Site 3 on Sage Creek (WSSF3): located downstream of the west border of Section 18, T5N, R87W

(I) Yampa River Segment 13f: Temperature Standards

$$DM = 21.2$$
 and $MWAT = 16.9$ from $4/1 - 5/31$

DM and MWAT = CS-II from 6/1 - 9/30

DM = 21.2 and MWAT = 16.9 from 10/1 - 10/31

DM and MWAT = CS-II from 11/1 - 3/31

(m) Yampa River Segment 22: Temperature Standards

All locations DM and MWAT = CL, CLL from 1/1 - 3/31

Pearl Lake DM = CLL and MWAT = 19.6 from 4/1 - 12/31

Steamboat Reservoir DM = CLL and MWAT = 21.6 from 4/1 - 12/31

Stagecoach Reservoir DM = CLL and MWAT = 21.7 from 4/1 – 12/31

All other locations DM and MWAT = CL,CLL from 4/1-12/31

(5) Stream Classifications and Water Quality Standards Tables

The stream classifications and water quality standards tables in Appendix 33-1 are incorporated herein by reference.

The following is information regarding duration and measured form of standards in Appendix 33-1.

- (a) E. coli criteria and resulting standards for individual water segments, are established as indicators of the potential presence of pathogenic organisms. Standards for E. coli are expressed as a two-month geometric mean. Site-specific or seasonal standards are also two-month geometric means unless otherwise specified.
- (b) All phosphorus standards are based upon the concentration of total phosphorus.
- (c) The pH standards of 6.5 (or 5.0) and 9.0 are an instantaneous minimum and maximum, respectively to be applied as effluent limits. In determining instream attainment of water quality standards for pH, appropriate averaging periods may be applied, provided that beneficial uses will be fully protected.
- (d) All mercury standards apply to the total recoverable fraction of all forms, both organic and inorganic, of mercury in water.
- (e) All ammonia, nitrate, and nitrite standards are based upon the concentration reported as nitrogen.

(6) Discharger Specific Variances

(a) Yampa River Segment 7 (COUCYA07)

Discharger-Specific Variance, Town of Oak Creek (CO0041106): Adopted 12/14/2020.

Total Inorganic Nitrogen (TIN) (acute) = TVS:15 mg/L; Expiration date: 6/30/2026. Effluent concentrations shall not exceed the current condition.

33.7 - 33.9 RESERVED

33.10 STATEMENT OF BASIS AND PURPOSE

(1) <u>Introduction</u>

These stream classifications and water quality standards for state waters in Eagle, Grand, Jackson, Pitkin, Routt, and Summit Counties implement requirements of the Colorado Water Quality Control Act, C.R.S. 1973, 25-8-101 et seq. They also represent the implementation for Planning Region 12 of the Commission's Regulations Establishing Basic Standards and an Antidegradation Standard and Establishing a System for Classifying State Waters, for Assigning Standards, and for Granting Temporary Modifications (the "basic standards").

The basic regulations establish a system for the classification of state waters according to the beneficial uses for which they are suitable or are to become suitable, and for assigning specific numerical water quality standards according to such classifications. Because these stream classifications and standards implement the basic regulations, that statement of basis and purpose (Section 3.1.16) must be referred to for a complete understanding of the underlying basis and purpose of the regulations adopted herein; therefore, that statement of basis and purpose is addressed to the scientific and technological rationale for the specific classifications and standards developed from information in the record established in the administrative process. Public participation was a significant factor in the development of these regulations. A lengthy record has been built through public hearings, and this record establishes a substantial basis for the specific classifications and standards adopted. Public hearings were commenced on August 20, 1979, to receive a testimony, and were continued on September 5, October 9, October 10, and November 5, 1979. A total of twenty-two persons requested and were granted party status by the Commission in accordance with C.R.S. 1973, 24-4-101 et seq.

(2) General Considerations

- (a) These regulations are not adopted as control regulations. Stream classifications and water quality standards are specifically distinguished from control regulations in the Water Quality Control Act and it is the view of the Commission that they need not be adopted as control regulations pursuant to the statutory scheme. The Commission has specifically endorsed the view of the attorney general on this issue, which is a part of the record of these hearings.
- (b) The Commission was requested in the public hearings to rule on the applicability of these and other regulations to the operation of water diversion facilities, dams, transport systems, and the consequent withdrawal, impoundment, non-release and release of water for the exercise of water rights. The Commission has determined that any such broad ruling is inappropriate in the context of the present regulations. While the request raises significant issues that must be addressed, the Commission is aware of the current practices of the Division. In addition, these questions are currently the subject of litigation and involve complex legal issues. It is anticipated that the Commission will address these issues in the proper context and upon a review of relevant information. The request does not raise specific questions as to proposed classifications and standards; however, the Commission has taken into account the fact that these issues are unresolved in assigning classifications and standards as is more fully discussed below.

(3) Definition of Stream Segments

(a) For purposes of assigning classifications and water quality standards, the streams and water bodies of Region 12 are identified according to river basin and specific water segments.

- (b) Within each river basin, specific water segments are defined to which use classification and numeric water quality standards are assigned. These segments may constitute a specified lake or reservoir, or a generally defined grouping of waters within the basin (i.e., a specific mainstem segment and all tributaries flowing into that mainstem segment).
- (c) Segments are generally delineated according to the points at which the use or water quality characteristics of a watercourse are determined to change significantly enough to require a change in use classification and/or water quality standards. In many cases, such transition points can be specifically identified from available water quality data. In other cases, however, the delineation of segments is based upon best judgments of where instream changes in uses of water quality occur, based upon upstream and downstream data.

(4) <u>Use Classifications -- Generally</u>

- (a) The use classifications have been assigned in accordance with the provisions of Section 3.1.6 and 3.1.13 of the basic regulations. Each classification is based upon actual current uses or existing water quality. In the latter case, even though the use may not be in place, the classification is attached if existing water quality would allow that use.
- (b) In all cases, the requirement of the basic regulations, Section 3.1.6(1)8, that an upstream use cannot threaten or degrade a downstream use, has been followed. Accordingly, upstream segments of a stream are generally the same as or higher in classification than downstream segments. In a few cases, tributaries are classified at lower classifications than mainstems, where the flow from the tributaries does not threaten the quality of mainstem waters and where the evidence indicates that lower classifications for the tributaries is appropriate.
- (c) The Commission has determined that it has the authority to assign classifications "High Quality Waters Class 1" and "High Quality Waters Class 2" where the evidence indicates that the requirements of Section 3.1.13(1)(e) has been determined on a case-by-case basis.
- (d) The classification "High Quality Waters Class 1" has been assigned where the following factors are present:
 - (I) waters are of a quality higher than necessary to protect specified uses;
 - (ii) waters constitute an outstanding state and national resource;
 - (iii) no known sources of pollution are present;
 - (iv) restrictions on use due to federal status are present; and
 - (v) waters are of a recreational and ecological significance.
- (e) Not all segments located within wilderness areas have been classified "High Quality Waters Class 1". In addition, rivers designated under the Wild and Scenic Rivers Act and streams providing unique habitats for threatened species of fish have not been classified "High Quality Class 1". These segments have been classified "High Quality Class 2", for the following reasons:
 - (I) waters are of a quality higher than necessary to protect specified uses;

- (ii) evidence in the record indicates that presence of water diversions within these areas:
- (iii) a question exists as to whether existing diversion structures can be maintained consistent with a "High Quality Class 1) designation, due to the antidegradation requirement. Because of the questions regarding authority to regulate diversion, the Class 1 designation was deemed potentially too rigid. The Commission recognizes its authority to upgrade these segments if and when it is appropriate to do so.
- (f) The "High Quality Class 2" classification was proposed for many segments located on National Forest Service lands and in other instances. These proposals have been rejected, and the segments classified for specific uses, for the following reasons:
 - High quality classifications represent extraordinary categories, and their use is optional at the discretion of the Commission;
 - (ii) Due to the extraordinary nature of the classification, the Commission deems it appropriate to require more data on existing quality than present in the record to justify more extensive use of the classification:
 - (iii) Further monitoring may indicate in the future that many segments in this region should be upgraded to a high quality classification;
 - (iv) More reliable data is necessary with this classification in these cases because there are no guidelines other than instream values upon which to base water quality standards;
 - (v) It is important in these cases to assign specific water quality standards to protect the highest specific use classifications, and only specific use classifications provide the mechanism for assigning such standards.
 - (vi) Questions exist regarding "existing quality" in terms of historic activities that may have affected water quality;
 - (vii) Questions regarding the applicability of the high quality classification to diversions and the Commission's authority with regard to such diversions;
 - (viii) Questions exist as to whether the high quality classification applies only to point source discharges, or also to other activities;
 - (I) The Commission views the classification system as an ongoing process and recognizes its authority to upgrade specific stream segments. There is presently a need for the establishment of mechanisms for administering the "High Quality Class 2" classification; and
 - (x) Location of a stream on national forest service lands provides no reason in and of itself to classify it as high quality.
- (g) The Commission feels that the classifications are socially, economically, and technically justifiable.

(h) Qualifiers -- "Goal"

The "goal" qualifier (Section 3.1.13(2)(a), basic regulations) has been used in specific cases where waters are presently not fully suitable for the classified use, but are intended to become so. In all such cases, water quality standards have been assigned to protect the classified uses and temporary modifications have been granted for specific parameters.

(I) Qualifiers -- "Interrupted Flow"

The Commission has considered appending the "interrupted flow" qualifier to numerous stream segments in accordance with Section 3.1.13(2) 8 of the basic regulations; however, numerous questions have arisen as to its meaning and applicability. The intention of the provision is to allow the Commission to classify certain stream segments according to their water quality, despite the existence of flow problems. It has not been included in order to eliminate confusion as to its applicability to diminished, as opposed to interrupted, flows. It has also been eliminated in order to avoid any misimpression regarding benefits to dischargers. This qualifier is essentially a statement of the obvious, particularly in view of the provision regarding low flow exceptions (Section 3.1.9(1), basic regulations).

In addition, where flow characteristics permanently impair the suitability of the stream segment to provide a habitat for a wide variety of aquatic life, the "Class 2 - Cold Water Aquatic Life" classification has been assigned.

(j) Recreation - Class 1 and Class 2

In addition to the significant distinction between "Recreation - Class 1 and Recreation - Class 2" as defined in Section 3.1.13(1) of the basic regulations, the difference between the two classifications in terms of water quality standards is the fecal coliform parameter. "Recreation - Class 1" generally results in a standard of 200 fecal coliforms per 100 ml; "Recreation - Class 2" generally results in a standard of 2000 fecal coliforms per 100 ml.

The Commission has heard considerable testimony on the issue of applying these classifications and has deliberated on it at length. The Commission has decided to classify as "Recreation - Class 2" those stream segments where primary contact recreation does not exist and cannot be reasonably expected to exist in the future, and where municipal discharges are present which may be unnecessarily affected by the "Recreation - Class 1" classification, to their detriment and that of the aquatic life in the stream segment. The Commission has decided to classify as "Recreation - Class 1" those stream segments where primary contact recreation exists, or where the fecal coliform standard of 200 per 100 ml. is being met and no point source discharges exist, despite the absence of the primary contact use. The reasons for these decisions are as follows:

- (I) The streams in this region are generally unsuitable for primary contact recreation because of water temperature and stream flows. The only known exception is stream segment 2 of the Upper Colorado River Basin.
- (ii) Fecal coliform is an indicator organism. Its presence does not always indicate the presence of pathogens, depending on the source of the fecal coliform. If the source is agricultural runoff as opposed to human sewage, there my be no health hazard and therefore no significant need to reduce the presence of fecal coliform to the 200 per 100 ml. level. Also, control of nonpoint sources is very difficult.

- (iii) Treating sewage to meet the 200 per 100 ml. level generally means the treatment plant must chlorinate its effluent to meet the limitation. The presence of chlorine in the effluent to meet the residual chlorine standard is expensive and often results in the addition of more chemicals which can be detrimental to aquatic life; therefore, reducing the need for chlorine is beneficial to aquatic life.
- (iv) Even where a treatment plant in this region might treat its effluent to attain the standard of 200 per 100 ml., agricultural runoff and irrigation return flows below the plant may result in the rapid increase of fecal coliform levels; therefore, the benefits of further treatment are questionable.
- (v) The fecal coliform standard of 2000 per 100 ml. has been established to protect water supplies. There is no significant difference in the two levels for water treatment plants because the conventional plant must provide the means for treatment at the higher level. The standard of 200 per 100 ml. is not intended to protect the water supply classification.

(5) Water Quality Standards -- Generally

- (a) The water quality standards for classified stream segments are defined as numeric values for specific water quality parameters. These numeric standards are assigned as the limits for chemical constituents and other parameters necessary to protect adequately the classified uses in all stream segments.
- (b) Not all of the parameters listed in the "Tables" appended to the basic regulations are assigned as water quality standards for Region 12. This complies with Section 3.1.78 of the basic regulations. Numeric standards, in some cases, have not been assigned for parameters on which there is no data and no knowledge of the occurrence in Region 12.
- (c) A numeric standard for the temperature parameter has been assigned as a basic standard applicable to all waters of the region in the regulations. The standard of a 3 degree temperature increase above ambient water temperature as defined is generally valid based on the data regarding what is necessary to support an "Aquatic Life Class 1" fishery. The standard takes into account daily and seasonal fluctuations; however, it is also recognized that the 3 degree limitation as defined is only appropriate as a guideline and cannot be rigidly applied if the intention is to protect aquatic life. In winter, for example, warm water releases from reservoirs (which might not be subject to the standard in any case) may be beneficial to aquatic life. It is the intention of the commission in assigning the standard to prevent radical temperature changes in short periods of time, which are detrimental to aquatic life.
- (d) Numeric standards for organic substances have been assigned as basic standards applicable to all waters of the region in the same manner as the basic standards in Section 3.3.5(2)(a) of the basic regulations. These standards are essential to a program designed to protect the waters of the state regardless of use classifications because they describe the fundamental conditions that all waters must meet.

It is the decision of the Commission to assign these standards as basic standards for Region 12 even though their presence is not generally suspected. Also, these numbers are not detectable using routine methodology, and there is some concern regarding the potential for monitoring requirements. This concern should be alleviated by Section 3.1.14(5) of the basic regulations, but there is uncertainty regarding the interpretation of those numbers by other entities. Regardless of these concerns, because these parameters are highly toxic, there is a need for regulating their presence in state waters. Because the Commission has determined that they have uniform applicability here, their inclusion as basic standards for the region accomplishes this purpose.

(e) In many cases, the numeric water quality standards are taken from the "Tables" appended to the basic regulations. These table values are used where actual ambient water quality data in a segment indicates that the existing quality is substantially equivalent to, or better than, the corresponding table values. This has been done because the table values are generally considered to protect the beneficial use classifications of the waters of the state.

Consistent with the basic regulations, the Commission has not assumed that the table values have presumptive validity or applicability in Region 12. This accounts for the extensive data in the record of ambient water quality; however, the Commission has found that the table values are generally sufficient to protect the use classifications. They have, therefore, been applied in the situations outlined in the preceding paragraph, as well as in those cases where there is insufficient data in the record to justify the establishment of different standards. The documentary evidence forming the basis for the table values is included in the record.

(f) In many cases, instream ambient water quality provides the basis for the water quality standards (See (g) below). In those cases where the classified uses presently exist or have a reasonable potential to exist despite the fact that instream data reflects ambient conditions of lower water quality than the table values, instream values have been used. In these cases, the evidence indicates that instream values are adequate to protect the uses. In those cases where temporary modifications are appropriate, instream values are generally reflected in the temporary modification and table values are reflected in the temporary modification and table values are reflected in the corresponding water quality standard. (The "goal" qualifier is then appended to the classification).

Cases in which water quality standards reflect these instream values usually involve the metal parameters. On many stream segments, elevated levels of metals are present due to natural or unknown causes, as well as mine seepage from inactive or abandoned mines. These sources are difficult to identify and impractical or impossible to control. The classified aquatic life uses may be impacted and/or may have acclimated to the condition. In either case, the water quality standards are deemed sufficient to protect the uses that are present.

(g) In assigning standards based on instream ambient water quality, a calculation is made based upon the mean (average) plus one standard deviation (x̄+ s) for all sampling points used on a particular stream segment. Since a standard deviation is not added to the water quality standard for purposes of determining compliance, this is a fair method as applied to discharges.

Levels that were determined to be below the detectable limits of the sampling methodology employed were averaged in as zero rather than at the detectable limit. This moves the mean down; but since zero is also used when calculating wasteload allocations, this method is not unfair to dischargers. A number of different statistical methods could have been used. All of them have pros and cons and the approach used is reasonable.

Metals present in water samples may be tied up in turbidity when the water is present in the stream. In this form they are not "available" to fish and may not be detrimental to aquatic life. Because the data of record does not distinguish as to availability, some deviation from table values, as well as the use of (x+s) is further justified, because it is unlikely that the total value in the samples analyzed is in available form.

(h) No water quality standards are set below detectable limits for any parameter, although certain parameters may not be detectable at the limit of the standards using routine methodology; however, it must be noted that stream monitoring, as opposed to effluent monitoring, is generally not the responsibility of the dischargers but of the state. Furthermore, the purpose of the standards is to protect the classified uses, despite the inconvenience monitoring may impose.

Section 3.1.14(5) of the basic regulations states that "dischargers will not be required to regularly monitor for any parameters that are not identified by the division as being of concern". Generally, there is not requirement for monitoring unless a parameter is in the effluent guidelines for the relevant industry.

(6) Classification and Standards -- Special Cases

Except as indicated above and below, the Commission accepts and incorporates herein the rationale for specific stream segments of the Water Quality Control Division developed in conjunction with the proposed classifications and standards, and made part of the record as Water Quality Control Division Exhibits 2 and 3 at the hearing on October 4, 1979. In order to properly correlate these documents with the proposals themselves, the Division's revised proposals must be consulted. This is Water Quality Control Division Exhibit 3 of the hearing on October 4, 1979 (23 pages).

In some instances not discussed below, the regulations adopted by the Commission include changes from the Division's proposals. In some of these cases, the alternative proposals of parties were adopted and the rationale therefor endorsed. In other cases, typographical and other errors, or further review of data in the record by the Division, resulted in changes adopted by the Commission. The record should be consulted for the rationales regarding the action taken by the Commission on those specific stream segments where the record discloses significant controversy regarding classifications and standards and/or the rationale for the Commission's action deviates in some respects from that outlined above.

(a) Mainstem of the Colorado River, including all tributaries, lakes, and reservoirs within, or flowing into, Arapahoe National Recreation Area, including Grand Lake, Shadow Mountain Lake, and Lake Granby. (Upper Colorado River Basin, page 1, segment 2).

This segment was originally proposed for a "High Quality - Class 2" classification and has been classified for specific beneficial uses. In addition to the reasons given below, those found at Section (4)(f) above apply.

This is the only stream segment in this region where primary contact recreation is known to exist; however, the standard for fecal coliform that is necessary to protect the "Recreation - Class 1" use is not being met consistently. The segment has been classified "Recreation - Class 1" and the appropriate standard for fecal coliform has been assigned, but a temporary modification for this parameter has also been assigned.

Because of significant fecal coliform and nutrient problems in this area, the segment is not of such consistently high quality to justify a "High Quality" classification. There is a high level of human activity including existing point source discharges in this area, and it is a changing situation deserving of additional study, in view of continuing land and water resource development.

Downstream data indicates that the water quality is generally sufficient to support the use classifications. It is extremely important in this area to adopt water quality standards sufficient to protect these uses, and therefore, table values are assigned. A"High Quality" classification would not provide for this kind of protection at this time, since high quality waters are not being assigned specific numeric standards, in the absence of more complete data.

(b) Mainstem of the Blue River from the point of discharge of the Breckenridge Sanitation District wastewater treatment plant to Dillon Reservoir (Blue River Basin, page 3, segment 2).

The mainstem of the Blue River has been broken down into two segments because of current problems associated with the Breckenridge treatment plant. The Commission endorses the rationale of the staff located at pages 10 and 11 of the Water Quality Control Division Exhibit 2, except as to fecal coliform and ammonia. The change as to fecal coliform conforms to the reasoning outlined above.

The evidence is compelling regarding the need for a temporary modification for ammonia. The standard for unionized ammonia of 0.02 mg/l may be met now, but not consistently. Because of growth pressures in the area, more consistent violations of the standard in the near future are imminent.

A new plant is coming on line in the fall of 1981 or the winter of 1982. Significant questions presently exist regarding the location of the discharge and the kind of treatment that will be installed to meet the ammonia standard. Pending the completion of the new facility, a temporary modification is appropriate. The Breckenridge Sanitation District has recommended a temporary modification to 0.05 mg/l NH3 on the basis that phosphorus removal is presently capable of reducing the ammonia to this level. The Commission accepts this alternative proposal.

Because of the importance of this segment as a spawning area, close monitoring of these waters is necessary, and the Commission may have to re-examine this decision in the near future.

At the very least, the Commission recognizes its obligation to re-examine its decision with regard to the temporary modification within three years.

(c) <u>Mainstem of Tenmile Creek, including all tributaries, lakes, and reservoirs, from the source to a point immediately above the confluence with West Tenmile Creek, except for the specific listing in Segment 14 (Blue River Basin, page 4, segment 12).</u>

The reasoning contained in Water Quality Control Division Exhibit 2 on this stream segment is generally acceptable. Instream values in this segment are deemed sufficient to protect the classified uses. In assigning instream values, the staff used its own data plus that of the Division of Wildlife and Amax, Inc. Although the Climax discharge was not factored entirely, high numbers from samples taken during periods of bypass and high runoff were thrown out as being unrepresentative of ambient conditions. In stream values calculated without these high numbers are sufficient to protect the uses, and bypasses cannot be anticipated in the future.

The staff has recommended standards based on instream values and "goals" based on the "pilot plant data" i.e., data accumulated during the first six months of operation of the new treatment plant, while it was operating at the 50 percent of rated capacity. The staff's opinion is that these "goals" should be met with operation of the new plant. If the Commission were to adopt this approach, it would use the recommended "goals" as the standards, and set the recommended standards as temporary modifications (for copper, lead, and zinc); however, this approach was not taken because the data with respect to the new plant is not wholly adequate in determining what it will produce. This is an important concern since a significant portion of the flow of the stream goes through the plant. Therefore, instream values sufficient to protect the uses have been established and no temporary modifications have been granted.

The standards for metals are based on a hardness of less than 100 derived from the water quality data measured downstream. Basing the standards on a hardness of 400 which derives from effluent data would be unreasonable since ambient water quality for purposes of these standards is not to be measured at the point of discharge.

The water supply classification has been removed because there is not water supply use, and standards have been assigned from table values in accordance with the appropriate classifications, except in the metals categories.

(d) <u>Mainstem of Tenmile Creek, including all tributaries, lakes, and reservoirs, from a point immediately above the confluent with West Tenmile Creek to Dillon Reservoir (Blue River Basin, page 5 segment 13).</u>

The reasoning contained in the Water Quality Control Division Exhibit 2 on this stream segment is generally acceptable.

The water supply classification has been included because water quality is sufficient to protect this use.

The standards reflect instream water quality. Only cadmium and zinc represent values higher than the table values.

The Commission takes the same approach here with respect to the possibility of improved water quality as it does for the upper segment of Tenmile Creek.

(e) <u>Mainstem of the Eagle River from the compressor house bridge at Belden to the confluence with Gore Creek (Eagle River Basin, page 6, segment 5).</u>

This segment has been separated from the upper mainstem because instream monitoring indicates decidedly poorer water quality below Belden, although the uses are the same.

Although there is conflict in the evidence before the Commission regarding the "Aquatic Life - Class 1 - Cold" use, the Commission finds that the evidence is sufficient to show the presence of a variety of cold water aquatic life, although their numbers may be impacted. In addition, flow and streambed characteristics indicate that a variety of aquatic life can be supported and that the "Class 1" category is appropriate.

The "Water Supply" classification has been included because even though such use is not present within this segment, the classification is necessary to protect the Eagle-Vail water supply downstream, immediately below Gore Creek.

Inactive mines are at least partially responsible for water quality degradation in this segment. Some of these sites are of undermined ownership, and therefore, control of these sources cannot be predicted with any certainty. The control of some sources of pollution on this segment and the planned removal of the Cross Creek discharge by the New Jersey Zinc Company is expected but the extent of favorable impact of these efforts on water quality is unknown. Under no circumstances is water quality expected to improve beyond upstream quality, and therefore, some standard reflect those values (cadmium, copper, lead and zinc), and temporary modifications are not assigned.

Manganese and iron levels are set to protect the downstream water supply, and reflect table values.

(f) <u>Mainstem of the Eagle River from Gore Creek to the confluence of the Colorado River</u> (Eagle River Basin, page 7, segment 9).

The manganese problem on the Eagle River originates upstream of Gore Creek. For the reasons indicated above, the standard reflects the value necessary to protect the water supply use. That standard is not currently being met; however, control measures by the New Jersey Zinc Company are deemed sufficient to allow the standard to be met in the future. Therefore, a temporary modification has been granted. Standards for the other metals reflect instream values.

(g) Mainstem of Cross Creek from the source to the confluence with the Eagle River (Eagle River Basin, page 6, segment 7)

The record shows a conflict in the evidence concerning the data on ambient water quality which is the basis for the standards here. New Jersey Zinc Company presently discharges into Cross Creek, although an NPDES permit application is currently pending to move the discharge point to the Eagle River. The company's data indicates higher instream values than found by the Division. The Commission has adopted the Division's recommended standards because its analysis includes the most recent data, which was not used by the company. Also, difference sampling methods currently in use are found to be more accurate and they indicate lower values.

(h) <u>Mainstem of Brush Creek from the source to the confluence with the Roaring Fork River</u> (Roaring Fork River Basin, page 8, segment 4).

Although there is a conflict in the evidence regarding the existence of aquatic life downstream of th Snowmass Sanitation District discharge, the record supports the finding that a fishery is present. However, because the discharge sometimes constitutes the entire flow of the stream in the summer months, it is considered intermittent and assigned an "Aquatic Life - Class 2" classification. Nevertheless, standards have been assigned to protect the existing fishery.

The Snowmass Sanitation District has been funded for tertiary treatment but the technology is untested; therefore, a temporary modification has been assigned for ammonia.

Otherwise, ambient water quality data indicates that the table values are bing met and standards have been assigned accordingly.

(i) Mainstem of Oak Creek from the point of discharge of the Oak Creek wastewater treatment plant to the confluence with the Yampa River (Yampa River Basin, page 11, segment 7).

Although the "Aquatic Life - Class 1 - Cold" classification is appropriate, there is a limited variety of aquatic life below Oak Creek Drain. Because of this and because of the short distance between the Oak Creek discharge and the Oak Creek Drain, it is inappropriate to establish an ammonia standard at this time.

FISCALSTATEMENT

Stream Classifications and Water Quality Standards for the Upper Colorado River, the headwaters of the North Platte River, and the Upper Yampa River (Essentially those streams and water bodies in Eagle, Grand, Jackson, Pitkin, Routt and Summit Counties)

The Water Quality Control Commission is charged with the responsibility to conserve, protect, and improve the quality of state waters pursuant to C.R.S. 1973, 25-8-101 et seq.

The Commission is further charged to classify all waters of the State and to promulgate standards for any measurable characteristic of the water. (25-8-203 and 25-8-204). The above-titled document assigns use classifications and standards for the state waters in the listed areas in accordance with the "basic regulations" adopted May 22, 1979.

The measurable fiscal impacts which may be caused by these regulation are as follows:

- Cost of construction of increased capacity of municipal waste treatment facilities;
- Cost of construction of increased capacity of industrial waste treatment facilities;
- Cost of Operation & Maintenance of municipal enlargements;
- Cost of Operation & Maintenance of industrial enlargements; and
- Cost of instream monitoring and lab analysis for new parameters added by the standards.

Dischargers will not be required to do stream monitoring. Only those parameters which are limited by a discharge permit will be monitored. The state, federal, and local agencies now doing instream monitoring will have some increased cost; however, any additional frequency should be done to improve state surveillance and would be needed regardless of standard changes.

The Division has reviewed these regulations and determined that the following municipalities may need to construct additional facilities because of more stringent water quality standard and may have additional annual operation costs in the amounts shown:

MUNICIPALITIES	NEEDED FACILITY	ESTIMATED COST (1980 Dollars)	ESTIMATED ANNUAL OPERATING COSTS
Copper Mountain	Dechlorination and Ammonia Conversion	\$900,000	\$7,000 Total
Town of Frisco	AmmoniaConversion	\$1,000,000	\$8,500 Total
Snowmass	Dechlorination	\$45,000	\$5,000 Total

The following industries or commercial establishments may have to construct and operate additional facilities to meet more stringent water quality standards and the additional costs are shown below:

INDUSTRY OR COMMERCIAL ESTABLISHMENT	NEEDED FACILITY	ESTIMATED COST	ESTIMATED ANNUAL OPERATING COSTS
A-Basin Ski Area	Dechlorination and Ammonia Conversion	\$600,000	\$5,000 Total

The stream classifications and standards adopted by the Commission will protect the water uses primarily through control of potential point source pollution. Nonpoint source pollution from precipitation runoff will be controlled primarily from management practices which are in existence or will be implemented in the future. Future management practices need careful consideration and will be the result of 208 area-wide wastewater management plans developed by regional planning agencies and being updated annually. These plans involve local general purpose governments with general assistance from state government. Some of the possible nonpoint source pollution may be controlled through "Control Regulations" yet to be promulgated by the Commission. These types of controls could involve runoff from construction, mining activities, and urban areas. It is not certain what controls are needed at this time and there is no way that possible costs can be identified at this time.

Persons who benefit from standards which will protect existing and future anticipated uses can be identified as all persons benefiting from recreation, municipal water supply, and agriculture. These benefits are directly economic for agriculture, industry and municipalities who health benefit costs are reduced by having clean water, and are both economic and nonquantifiable for some uses such as fishing, recreation, and the aesthetic value of clean waters. Furthermore, benefits will result from human health protection and lack of debilitating disease. Figures have been developed for a recreation/fishing day which can be applied to that aspect of a water use; however, figures which have been developed for total recreation/fishing day uses have been developed statewide and could not be applied region-by-region or stream-by-stream.

The uses of water in this region are adequately protected by these standards. Most municipal treatment facilities and industrial facilities are currently adequate, or are already being upgraded, in order to meet previous requirements. Any additional facilities or expansions in this region will generally be caused by increased capacity required because of pollution growths or industrial enlargement. Industries are required by federal statute to meet effluent limitations described as "best available technology" by 1983 or 1984. For all major industries in this region, the water quality standards should not require treatment beyond these limitations.

No attempt can be made to identify future development costs as this type of data is not readily available.

33.11 STATEMENT OF BASIS AND PURPOSE FOR SEGMENT 13 and 14, TEN MILE CREEK

Use Classification

The evidence in this proceeding as well as prior proceedings have established that the Climax discharge, Segment 13, does not have sufficient flow to sustain a classification of aquatic life, Cold Water Class 1 on a year round basis. It is contemplated that Climax will not discharge during the period December 25 through February 28. These months are generally low flow months of the year. Hence, the flow conditions are not present to support an aquatic life, Cold Water Class 1 designation on a year round basis on Segment 13.

The Commission has received testimony and exhibits in this and previous hearings concerning Ten Mile Creek which establish that the number and kind of aquatic species in Segment 13 is limited and that few, if any, sensitive species are found in Segment 13. The Commission believes that the Water Quality standards for Segment 13 that it is adopting today will protect existing species and encourage the establishment of more sensitive species which are compatible with the flow and streambed characteristics of Segment 13.

Testimony has also been presented in a previous hearing on Ten Mile Creek as to the cost of achieving a Class 1 Classification for Segment 13. In weighing these costs together with the cost already expended to improve the water quality of Ten Mile Creek against the low flow and limited aquatic life conditions presently found in Segment 13, the Commission concludes that it would not be economically reasonable to retain a classification of aquatic life, Cold Water Class 1 for Segment 13. Hence, the Commission adopts aquatic life, Cold Water 2 to apply to Segment 13 of Ten Mile Creek. The Commission does not find that classifying this Segment with a goal of aquatic life is appropriate. The Segment does contain aquatic life and any upgrading from Class 2 to Class 1 could proceed during periodic review to reflect any possible improvements.

Segmentation

The evidence in these proceedings on Ten Mile Creek have shown that Ten Mile Creek for all intents and purposes begins at Climax property boundary at a place designated as the "Parshall Flume". It is at this point that the natural flows that are intercepted by Climax in the Ten Mile Creek Basin are channelled together and form the source of Ten Mile Creek. Hence, the Commission believes Parshall Flume to be the source of the mainstem of Ten Mile Creek. Also, included in this segment are all tributaries to Ten Mile Creek including those natural tributaries intercepted by Climax.

Water Quality Standards

The evidence of Climax and the Division in this proceeding has shown that water quality standards in Ten Mile Creek vary considerably during certain periods of the year. The principal cause of this variation is the hydrological condition, mainly the spring run-off (snowmelt bypass). During this period it becomes economically unreasonable, if not impossible, to provide treatment for the large flow of runoff water that comes into contact with the Tailings Ponds located in the Ten Mile Creek Basin. Hence, the Commission has adopted seasonal water quality standards for both Segments 13 and 14 of Ten Mile Creek.

Segment 13

The Commission has been presented with Climax data and calculations of such data for various pollutants during the period November, 1979 thru April, 1982. No STORET exists for Segment 13, hence only the Climax data was used. All Climax data was analyzed according to the total method.

The water quality standards for the non-runoff period are based on data including all ambient data obtained during the time the Climax Wastewater Treatment facility was operating with the exception of the bypass periods associated with the runoff in the months of January and February during which Climax will not discharge in the future. The Commission recognizes that this period varies from year to year and that it will be determined annually by the Division and Climax. This period shall generally commence not earlier than May 1 and extend approximately 60 days as more specifically defined by the Climax water balance computer model. Historically a bypass has not been necessary every year and may not always be necessary in the future.

The Commission has also been presented with Climax data covering the snowmelt bypass periods of 1980 and 1982. In view of a seasonal variability of the ambient water quality, the Commission adopts \bar{x} + s of the snowmelt bypass data as water quality standards to apply during this period.

In adopting the above water quality standard for Segment 13, the Commission is mindful of its goals to protect the use classifications in Segment 14. The Commission finds that the water quality standards it has adopted for Segment 13 are based on historical data gathered during a period when there was general improvement in stream quality. Hence, the water quality standards based on such data should be sufficient to protect and maintain the uses assigned to both Segments 13 and 14, including water supplies in Segment 14.

Segment 14

The Commission has been presented with STORET and Climax data and calculations for various pollutants during the period November, 1979, through April, 1982. As with Segment 13 data, these have been split according to the snowmelt bypass and non-runoff periods. Climax data was analyzed by the total method. The State data was analyzed according to the State methodology. For the snowmelt bypass period the Commission adopts the x+s of the combined non-runoff data.

Evidence indicates the standards as adopted do not require additional technology, and are economically reasonable.

FISCAL IMPACT STATEMENT

Revision of Aquatic Life Classification and Certain Numeric Standards Segments 13 and 14 of Ten Mile Creek

The principle fiscal impact of the adoption of the aquatic life class 2 classification and revised water quality standards is a significant potential cost savings to be realized by Climax Molybdenum Company. Evidence submitted by Climax Molybdenum Company suggests that without these modifications, Climax would be faced with a strong probability of additional treatment to cost from \$8.2 million to \$14.6 million in capital expenses and from \$3.8 million to \$6.6 million in annual operating and maintenance costs. Because evidence suggests that the beneficial uses that are identified and in place will be adequately protected and possibly enhanced with these changes, and because potential beneficial use improvements to be realized by additional treatment do not bear a reasonable relationship to the costs to attain them at this time, the Commission concludes that it is economically reasonable to support the change of the aquatic life classification and revision of certain numeric standards on these segments.

33.12 STATEMENT OF BASIS AND PURPOSE

The proposed phosphorus (P) standard for Dillon Reservoir, Segment 3 of the Blue River in Summit County was 0.010 mg/l in the top five meters, as an annual average. Based on the record, the Commission found that the summer beneficial uses were those that should be protected by the phosphorus standard. Therefore, the adopted standard of 0.0074 mg/l total phosphorus as P measured in the top 15 meters of water is for the months July through October. The standard as proposed in the notice of rulemaking and that which was adopted are based on the same set of phosphorus sampling, but the adopted standard is based only on the July to October data.

In adopting the alternate proposal of 0.0074 mg/l P, the Commission reduced the four inorganic numeric special standards for phosphorus assigned only for the Dillon Reservoir portion of Segment 3 of the Blue River. The Commission took this action to maintain the chlorophyll a in the Dillon Reservoir at a level which will protect presently classified beneficial uses.

The Commission found there were no significant differences in the phosphorus levels among the areas encompassed by the Reservoir. Maintaining the 0.0074 mg/l of phosphorus should limit chlorophyll a to the 1982 level.

The Commission found that the assignment of a single phosphorus standard to the Dillon Reservoir was economically reasonable.

FISCAL IMPACT STATEMENT

Regulations for Control of Water Quality in Dillon Reservoir

The fiscal impacts of these control regulations are an extension of the fiscal impacts associated with the phosphorus standards set by the Commission for the Dillon Reservoir. As the phosphorus standards drive the control regulations, the essential economic analysis is more properly attributed to the standards regulation. The Fiscal Impact Statement for the phosphorus standard regulations is attached and linked to this Statement by reference. The Commission is aware of and takes active notice of these impacts in passing these control regulations. Thus, the benefits associated with this regulation are the benefits that surround the phosphorus limits set by the Commission. Likewise, the majority of the costs are linked to the standard.

A unique fiscal impact that is solely a result of these regulations is that which falls on Summit County local government to manage and enforce the phosphorus limits in regard to point/non-point source trade-offs. There was no specific testimony or evidence that put firm figures into the record for the Commission's consideration regarding these costs but the Commission recognizes several important ideas in passing these regulations. As the regional 208 authority is at the planning and management region level, the Northwest Colorado Council of Governments (NWCCOG), the Commission is aware that much of the administrative costs will fall upon this entity. Because the NWCCOG recommended and supported the adopted standards in full awareness of the likely impacts, the Commission concludes that the associated costs are deemed to be reasonable by the NWCCOG. Secondly, the NWCCOG testified that they did not expect these costs to be out of line with the expected benefits of the regulations. Therefore, even in the absence of final estimates of the costs to local government, the Commission must conclude that the costs are reasonable because those that would bear the costs are in support of the regulations that would impose them.

The Commission actively sought and evaluated economic reasonableness testimony regarding the phosphorus standard and found the final adopted standard to be reasonable on economic grounds. Because these control regulations are inextricably linked to the phosphorus standards and because the unique costs that these regulations impose upon local governments are considered reasonable by those that would bear them, the Commission concludes that it has acted in an economically reasonable and responsible manner in passing these regulations.

33.13 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY, AND PURPOSE FOR TENMILE CREEK

The Water Quality Control Commission supports the request to set seasonal standards of 2.1 mg/l for total iron and 1.6 mg/l for total manganese for Segment 13 of Tenmile Creek. Segment 13 is defined as the mainstem of Tenmile Creek from the Climax Parshall Flume to a point immediately above the confluence of West Tenmile Creek and all tributaries, lakes and reservoirs from the source of Tenmile Creek to a point immediately above the confluence with West Tenmile Creek except for specific listing in Segment 15.

The current water quality standards for iron and manganese during the snowmelt bypass period in Segment 13 of Tenmile Creek are based on "Table Value" water quality standards of 1.0 mg/l whereas the actual ambient water quality of iron and manganese during the snowmelt bypass is 2.1 mg/l and 1 6 mg/l. respectively based on a calculation of \bar{x} + s. Hence, assuming zero low flow, as was done by the Division in the discharge permit under which AMAX is operating, the effluent limitations for iron and manganese cannot be met during the snowmelt bypass period. The snowmelt bypass period is defined as any contiguous period of time not to exceed 60 days commencing not earlier than May 1 and terminating not later than July 31.

Seasonal standards for cyanide, cadmium, copper, lead, and zinc were set for Segment 13 in December, 1982. Those standards were proposed after lengthy discussions between Climax Molybdenum, Colorado Division of Wildlife and Water Quality Control Division. At that time the attention was focused on those parameters that are specified in the BAT requirements for the ore mining and dressing industry, the reasoning being that a minimum of BAT limits would be required for any snowmelt bypass. Iron and manganese, which are not included in BAT requirements and are also in exceedence of the stream standards during snowmelt bypass periods (attachment), were inadvertently neglected in the proposal for seasonal standards.

Discussions between the Water Quality Control Division and the Colorado Division of Wildlife concluded that the proposed seasonal standards for iron and manganese which are only applicable during the snowmelt bypass period would have no significant impact on the aquatic life use classification of Segment 13. Also, the Commission is convinced that downstream water supplies will not be impacted by this action. The snowmelt bypass period is defined as any continuous period of time not to exceed 60 days commencing not earlier than May 1 and terminating not later than July 31.

These standards are consistent with the Commission's practice of adopting water quality standards based on instream quality where the data indicates that Table Values are exceeded, but existing uses are nevertheless adequately protected.

During this period (snowmelt bypass) it becomes economically unreasonable, if not impossible, to provide treatment for the large flow of runoff water that comes into contact with the Tailings Ponds located in the Tenmile Basin. Evidence indicates the standards adopted do not require additional technology and are economically reasonable.

The discharge permit issued by the Division includes effluent limitations for iron and manganese during the snowmelt bypass period that cannot be met. As recognized in the Statement of Basis and Purpose, it is economically unreasonable, if not impossible, to provide treatment to achieve the iron and manganese limits during this time.

The specific statutory authority for these amendments is C.R.S. Section 25-8-204.

FISCAL IMPACT STATEMENT

As in the 1982 rulemaking proceedings, the principal fiscal impact of the adoption of the revised water quality standards is a significant potential cost savings to be realized by AMAX. Evidence submitted by AMAX in the 1982 proceedings suggests that without the proposed modifications, AMAX would be faced with additional treatment costs from \$8.2 million to \$14.6 million in capital expenses and from \$3.8 million to \$6.6 million in annual operating and maintenance costs. Because the evidence in this proceeding, as well as that of the 1982 proceeding, suggests that the beneficial uses that are identified and in place will be adequately protected with these changes, and because potential beneficial use improvements to be realized by the additional treatment do not bear a reasonable relationship to the costs to attain them, the Commission concludes that it is economically reasonable to support the revision of the iron and manganese standards for the snowmelt bypass period on Segment 13.

33.14 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY, AND PURPOSE - OAK CREEK

The provisions of 25-8-202(1)(b) and (2), and 25-8-204, C.R.S., provide the specific statutory authority for this amendment.

After hearings held in late 1979, the Commission classified Oak Creek, from the point of discharge of the Oak Creek wastewater treatment plant to the confluence with the Yampa River, as Aquatic Life Class 1 - Cold. At that time, the Commission also adopted an array of numeric standards to protect aquatic life. No ammonia standard was designated for the segment because available evidence indicated that not only was there a limited variety of aquatic life below the Oak Creek drain, but the short distance between the treatment plant and drain in relation to the total segment made it inappropriate to establish an ammonia standard at that time.

In reviewing Colorado's water quality standards, the U.S. Environmental Protection Agency (EPA) noted the lack of an ammonia standard on this segment of Oak Creek and withheld approval of the segment until the Commission either reviewed this segment to determine an appropriate ammonia standard of more fully documented the justification for no standard. The purpose of this hearing is to satisfy EPA's concerns and gain approval of the classifications and standards for the segment.

Fisheries data which was not available at the 1979 hearing indicate that the fishery in Oak Creek is more extensive than originally thought. The data indicates numerous sculpin, dace, and suckers present in the stream. Rainbow trout have been stocked at times in the past by the Colorado Division of Wildlife. The evidence indicates that this stocking is not likely to occur in the future.

In order to protect the resident fish, i.e. sculpin, dace, and suckers, an unionized ammonia standard of .05 mg/l is proposed. This level is based on a site-specific calculation of the 30-day average criterion which should protect the resident species. This calculation is provided in the Site-Specific Criteria Guidelines, U.S. Environmental Protection Agency 1982b. The 30-day criterion was calculated seasonally by a Region VIII EPA computer program using seasonal mean temperature and pH, the reproducing species present in the Creek, and the national acute to chronic ratio of 16. For comparative purposes, the 30-day seasonal criteria calculated for Oak Creek. Segment 7 using combinations of species is given below:

Season	Oak Creek with	Oak Creek with	Oak Creek without	Oak Creek without
	Rainbow Trout <u>Acute</u>	Salmonids Acute	Rainbow Trout Acute	Rainbow Trout Acute
	= 16 Chronic	= 16 Chronic	= 16 Chronic	= 25*Chronic
NovFeb	.020	.027	.046	.028
MarJun.	.034	.046	.075	.048
JulOct.	.034	.046	.075	.048

^{* 25} is acute/chronic for White Sucker which is higher than national value of 16.

It should be noted that the species of suckers present in Oak Creek is the Bluehead for which there is no ammonia toxicity data available and, for that reason, the Division believes that using the national acute-chronic ratio of 16 is probably most appropriate to Oak Creek. However, it is felt that a .05 mg/l unionized ammonia standard should be applied year-round to insure protection of all the reproducing species present in the Creek. This would provide protection to the Bluehead sucker during the critical season (low-flow, temperature, pH) of July-October should the acute-chronic ratio for that species be nearer 25 than 16.

FISCAL IMPACT STATEMENT, OAK CREEK

The beneficiaries of this regulation will be those persons who enjoy the recreation and aesthetic values of Oak Creek and the upper reaches of the Yampa River that these ammonia limits are designed to preserve. While a monetary value has not been estimated for these beneficial uses, past experience has demonstrated them to be quite substantial.

The proposed ammonia limitations are not likely to result in higher costs to the users of the Oak Creek wastewater system, because it is anticipated that good secondary treatment processes should be sufficient to achieve these limits as translated into the Town's permit. Though it is therefore highly unlikely that system users would have to bear the significant costs associated with installing ammonia removal equipment, the Town may have to utilize a higher technology, short of ammonia removal, with the associated initial capital costs. If any, these costs would be manifest as increased user fees, but it is possible that a portion of such expenditures would be offset by a federal construction grant.

33.15 BASIS AND PURPOSE SEGMENT 13, YAMPA RIVER:

The proponent stated that its discharge permit requires that sampling be on a total metals basis whereas compliance is based on a total recoverable standard. The proponent believed that such a situation creates a "double standard" that poses an unnecessary and unreasonable burden.

The proponent requested the standards for manganese and copper be changed to reflect ambient water quality in segment 13. The data supporting this request were collected from undisturbed sites adjacent to the proponents mine area. On sites that have been disturbed by mining subsequent to site installation, only data collected in the natural state were used. Since the tributaries of Fish Creek, Foidel Creek, and Middle Creek drain the proponents mine properties, preference was given to data from these tributaries in the calculation of a revised standard.

The proponent contended in its petition for (207) review that:

- 1. New evidence indicates that concentrations of copper and dissolved manganese in the ambient streamflow exceed the current stream standards in Segment 13;
- 2. Ambient stream water quality should provide the basis for the standards in Segment 13. In that Segment, the classified uses presently exist despite the fact that ambient conditions reflect lower water quality than the standards or the "tables" appended to the basic regulations. Further, metals present in the water samples may be tied up in suspended solids when water is present in the stream. In this form, they are not "available" to fish and may not be detrimental to aquatic life. See CDOH, Water Quality Standards and Stream Classification, 5 CCR-1002-8, Section 3.3.7(5)(f) and (g);
- 3. There exists a clear and present potential for inequity or unreasonable economic impact because ambient water quality exceeds the current standards.
- 4. The existing standards materially affect the proponents present decision making, regarding treatment alternatives and requirements;
- 5. There exist evident errors in the standards which the Commission should rectify before its threeyear periodic review; and
- 6. Segment 13 may require more attention than it likely would receive during the triennial review of the entire basin.

FISCAL IMPACT STATEMENT:

Introduction

This assessment of economic impacts addresses the concerns associated with modification of the present stream standards to more practically reflect the ambient standards of the receiving stream. Colorado Yampa Coal Company (CYCC) believes that the present effluent limitations, based on stream standards, should be modified in accordance with the ambient conditions of the receiving stream. CYCC has initiated monitoring programs to determine ambient conditions of the receiving stream. Data from the monitoring program will be utilized to evaluate and perform alternative treatability studies, if such studies are necessary to meet the ambient effluents limitation standards.

Costs

No costs are anticipated to be necessary since the petition only requests that the present stream standard limitations be modified to reflect ambient conditions of the receiving stream.

If alternative treatment and disposal methods are ultimately required to comply with ambient stream standards, costs associated with the development, operation, and maintenance of the alternative treatment and disposal methods would be born by the consumer as pass-through costs. Where pass-through costs are not appropriate, it is assumed that the company would carry the financial burden as operations and/or in maintenance costs.

SEGMENT 13, YAMPA RIVER

Benefits

Approval of the petition would benefit the State of Colorado, the electrical consumer, the citizens of Routt County, and Colorado Yampa Coal Company (CYCC). The State of Colorado would benefit by relieving the Department of Health, Water Quality Control Division (DOH, WQCD) of enforcement responsibilities of certain stream standards which presently may exceed ambient conditions of the receiving stream, while ensuring that the receiving stream quality is not negatively impacted by the mining operation. The electrical consumer would benefit due to the most practical production of coal to generate electricity in an environmentally sound manner. The citizens of Routt County would benefit by the approval of this petition by maintaining direct and indirect employment opportunities for the local population associated with CYCC, attributable to the CYCC operations. CYCC will benefit from the approval of this petition by being able to mitigate potential environmental degradation, due to its mining operations, in the most practicable manner.

Conclusions

Considering the cost/benefit analysis above, it is evident that the benefit derived from the approval of this petition are vast and far-reaching in both number of people and areas of the country. It is also evident that this petition, when approved, would not, in any way, reduce the ambient receiving stream quality and as such would have no potential for environmental degradation.

33.16 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY, AND PURPOSE (JUNE, 1987 REVISIONS)

The provisions of 25-8-202(1)(a,(b) and (2); 25-8-203; and 25-8-204 C.R.S., provide the specific statutory authority for adoption of the attached regulatory amendments. The Commission also adopted, in compliance with 24-4-103(4) C.R.S., the following statements of basis and purpose and fiscal impact.

BASIS AND PURPOSE:

The changes considered and adopted in this hearing result from recommendations made by the Water Quality Control Division at a September, 1986 triennial review informational hearing. After review of the available data, the Division recommended that no change be made for three segments included in the hearing notice (Page 6, Segment 5; Page 7, Segment 9; and Page 9, Segment 9). The Commission agreed with this recommendation. The hearing notice also addressed additional changes recommended by AMAX Inc. However, AMAX's petition and proposal were withdrawn prior to the hearing.

The action taken and the rationale therefor for each applicable segment are described below.

Page 1, Segment 2:

The "goal" qualifier for the Recreation Class 1 classification and the temporary modification for fecal coliform are removed. The Recreational Class 1 classification is therefore in effect, with an accompanying 200/100 ml fecal coliform standard.

During the 1979 hearing, data was presented that showed some exceedances of the 200 mpn/100 ml criterion for Recreation Class 1 in some of the lakes. This was determined to probably be due to failing septic systems. Since that hearing two new treatment plants which serve the problem areas have gone on line and the Grand Lake wastewater treatment plant has been phased out. Both plants discharge outside of the lakes' drainage basin. Swimming is a documented use of these lakes and the 200 mpn/100 ml standard is necessary to protect this use. The limited data for Lake Granby shows fecal coliform levels significantly below the 200 mpn/100 ml standard.

Page 2, Segment 9:

The description for this segment is revised to read:

All tributaries to the Colorado and Fraser Rivers, including all lakes and reservoirs, within the Never Summer and Indian Peaks Wilderness Areas.

The Never Summer Wilderness Area was designated subsequent to prior hearings on the Upper Colorado Basin. The change classified waters in the Wilderness Area as High Quality-Class 2 which is consistent with Commission policy and past actions.

Page 3, Segment 2:

The temporary modification for the unionized ammonia standard is removed. The adopted standard of 0.02 mg/l therefore is in effect.

A temporary modification of 0.05 mg/l unionized ammonia was placed on this segment of the Blue River into which Breckenridge discharges because of the possibility of the 0.02 mg/l standard not being met with future growth. Since then, the Breckenridge discharge point has been moved and the effluent goes to a canal that bypasses the River and discharges directly to Lake Dillon. The temporary modification is no longer needed by Breckenridge and there are no other dischargers that will be affected by a 0.02 mg/l standard. The Blue River is a high quality trout stream that also is used as a source for a majority of the Brown trout spawn used in Division of Wildlife hatcheries. The 0.02 mg/l standard for unionized ammonia is needed if the use is to be protected.

Page 4, Segment 7:

The following revised standards and temporary modifications (all in mg/l) are adopted:

	Standard	Temporary Modification
Cadmium (Cd)		0.0085
Copper (Cu)	0.016	0.165
Lead (Pb)	0.016	0.021
Zinc (Zn)	0.29	1.6
Manganese (Mn,Tot)		1.2

The changes adopted for the underlying standards and/or temporary modifications are based on the use of recently available 1986 data contained in a Mined Land Reclamation Division report entitled "Documentation and Analysis of the Effects of Diverted Mine Water on a Wetland Ecosystem." The data from this report and the data from 1978, which is in the 1979 hearing record and was used to calculate the original set of standards, was combined to arrive at the revised standards and temporary modifications. The MLRD report relates to an experimental treatment system intended to remove the influence of the Pennsylvania Mine drainage on the metals levels in Peru Creek (i.e., clean up Peru Creek to levels equal to or better than those upstream). The data from Station PC-6 which is upstream of the Pennsylvania Mine drainage was used to derive the above standards (or underlying goals). For the temporary modifications, the data from the stations downstream of the Pennsylvania Mine were used (PC-5, PC-4, PC-3, PC-1). These stations reflect the existing quality of Peru Creek with the influence of the Pennsylvania Mine drainage. Both the standards and temporary modifications were derived using the \bar{x} + s methodology, with outliers screened by Chauvenet's criterion.

Page 8 Segment 4:

The temporary modification for the unionized ammonia standard is removed. The adopted standard of 0.02 mg/l therefore is in effect.

At the time of the 1979 hearing, Snowmass Water and Sanitation District had been funded for but had not begun construction of a tertiary treatment plant to remove ammonia. It was also felt that tertiary treatment plant to remove ammonia. It was also felt that the treatment technology was untested for the climatic conditions that would be encountered. Therefore, a temporary modification for unionized ammonia was adopted. The plant has been built and is operating efficiently and removing ammonia to levels that indicate operating efficiently and removing ammonia to levels that indicate the 0.02 mg/l standard can be met. The Snowmass discharge permit rationale also recognizes that the temporary modification is no longer needed.

At the following the hearing, Snowmass Water and Sanitation District submitted comments, and related information, requesting that the temporary modification be retained due to uncertainty whether the 0.02 mg/l standard can be met consistently. The Commission did not fee that this information demonstrated that the standard could not be met, and the temporary modification was therefore removed.

Page 10, Segment 2:

The following sentence is added to the description of this segment:

All tributaries to the North Platte River, including all lakes and reservoirs within the Never Summer Wilderness Area.

The Never Summer Wilderness Area was designated subsequent to prior hearings on the North Platte Basin. The change classifies waters in this Wilderness Area as High Quality-Class 2 which is consistent with Commission policy and past actions.

Page 13, Segments 15, 16, 17:

The notation for these three segments is revised to read:

Classified under segments 9 through 13(b), Lower Yampa/Green River, Lower Colorado Basin, 3.7.0.

Because these waters overlapped Routt and Moffat Counties and the majority of the activity and data was in Moffat County, the Commission deferred hearing these segments until the Lower Colorado hearings. This change clarifies where the classifications and standards for these waters may be found.

Segments 13 and 14, Ten Mile Creek:

The following Statement of Basis and Purpose for segments 13 and 14, Ten Mile Creek of the Blue River, which was originally adopted December 6, 1982, effective January 30, 1983, is readopted so that it will appear in the published version of the regulations:

Use Classification

The evidence in this proceeding as well as prior proceedings have established that the Climax discharge, Segment 13, does not have sufficient flow to sustain a classification of aquatic life, Cold Water Class 1 on a year round basis. It is contemplated that Climax will not discharge during the period December 25 through February 28. These months are generally low flow months of the year. Hence, the flow conditions are not present to support an aquatic life, Cold Water Class 1 designation on a year round basis on Segment 13.

The Commission has received testimony and exhibits in this and previous hearings concerning Ten Mile Creek which establish that the number and kind of aquatic species in Segment 13 is limited and that few, if any, sensitive species are found in Segment 13. The Commission believes that the Water Quality standards for Segment 13 that it is adopting today will protect existing species and encourage the establishment of more sensitive species which are compatible with the flow and streambed characteristics of Segment 13.

Testimony has also been presented in a previous hearing on Ten Mile Creek as to the cost of achieving a Class 1 Classification for Segment 13. In weighing these costs together with the cost already expended to improve the water quality of Ten Mile Creek against the low flow and limited aquatic life conditions presently found in Segment 13, the Commission concludes that it would not be economically reasonable to retain a classification of aquatic life, Cold Water Class 1 for Segment 13. Hence, the Commission adopts aquatic life, Cold Water Class 2 to apply to Segment 13 of Ten Mile Creek. The Commission does not find that classifying this Segment with a goal of aquatic life is appropriate. The Segment does contain aquatic life and any upgrading from Class 2 to Class 1 could proceed during periodic review to reflect any possible improvements.

Segmentation:

The evidence in these proceedings on Ten Mile Creek have shown that Ten Mile Creek for all intents and purposes begins at Climax property boundary at a place designated as the "Parshall Flume". It is at this point that the natural flows that are intercepted by Climax in the Ten Mile Creek Basin are channelled together and form the source of Ten Mile Creek. Hence, the Commission believes Parshall Flume to be the source of the mainstem of Ten Mile Creek. Also, included in this segment are all tributaries to Ten Mile Creek including those natural tributaries intercepted by Climax.

Water Quality Standards

The evidence of Climax and the Division in this proceeding has shown that water quality standards in Ten Mile Creek vary considerably during certain periods of the year. The principal cause of this variation is the hydrological condition, mainly the spring run-off (snowmelt bypass). During this period it becomes economically unreasonable, if not impossible, to provide treatment for the large flow of runoff water that comes into contact with the Tailings Ponds located in the Ten Mile Creek Basin. Hence, the Commission has adopted seasonal water quality standards for both Segments 13 and 14 of Ten Mile Creek.

Page 4, Segment 13

The Commission has been presented with Climax data and calculations of such data for various pollutants during the period November, 1979 thru April, 1982. No STORET exists for Segment 13, hence only the Climax data was used. All Climax data was analyzed according to the total method.

The water quality standards for the non-runoff period are based on data including all ambient data obtained during the time the Climax Wastewater Treatment facility was operating with the exception of the bypass periods associated with the runoff and in the months of January and February during which Climax will not discharge in the future. The Commission adopts the \bar{x} + s of these values as water quality standards to apply during the snowmelt bypass period. The Commission recognizes that this period varies from year to year and that it will be determined annually by the Division and Climax. This period shall generally commence not earlier than May 1 and extend approximately 60 days as more specifically defined by the Climax water balance computer model. Historically a bypass has not been necessary every year and may not always be necessary in the future.

The Commission has also been presented with Climax data covering the snowmelt bypass periods of 1980 and 1982. In view of a seasonal variability of the ambient water quality, the Commission adopts \bar{x} + s of the snowmelt bypass data as water quality standards to apply during this period.

In adopting the above water quality standard for Segment 13, the Commission is mindful of its goals to protect the use classifications in Segment 14. The Commission finds that the water quality standards it has adopted for Segment 13 are based on historical data gathered during a period when there was general improvement in stream quality. Hence, the water quality standards based on such data should be sufficient to protect and maintain the uses assigned to both Segments 13 and 14, including water supplies in Segment 14.

Page 5, Segment 14

The Commission has been presented with STORET and Climax data and calculations for various pollutants during the period November, 1979, through April, 1982. As with Segment 13 data, these have been split according to the snowmelt bypass and non-runoff periods. Climax data was analyzed by the total methodology. The State data was analyzed according to the State methodology. For the snowmelt bypass period the Commission adopts the \bar{x} + s of the combined snowmelt bypass data as the snowmelt bypass water quality standards with the exception of sulphate which is a table number. For the non-runoff period the Commission adopts the \bar{x} + s of the combined non-runoff data.

Evidence indicates the standards as adopted do not require additional technology, and are economically reasonable.

FISCAL IMPACT STATEMENT:

Removal of the temporary modification for unionized ammonia assigned to the mainstem of Brush Creek, segment 4, table page 8, may require the Snowmass Water and Sanitation District to provide additional treatment for ammonia at some future date, if future operation indicates that the ammonia standard cannot be met consistently with existing treatment and if the standard remains unchanged. However, the data currently available indicates that the standard is being met at this time and will probably be met until plant flows exceed the design capacity of the plant.

The remaining changes adopted in this hearing are not expected to result in substantial costs for any existing dischargers. The additional water quality protection provided by these changes benefits the public at large.

The following Fiscal Impact Statement for segments 13 and 14, Ten Mile Creek of the Blue River, which was originally adopted December 6, 1982, effective January 30, 1983, is readopted so that it will appear in the published version of the regulations:

The principle fiscal impact of the adoption of the aquatic life class 2 classification and revised water quality standards is a significant potential cost savings to be realized by Climax Molybdenum Company. Evidence submitted by Climax Molybdenum Company suggests that without these modifications, Climax would be faced with a strong probability of additional treatment to cost from \$8.2 million to \$14.6 million in capital expenses from \$3.8 million to \$6.6 million in annual operating and maintenance costs. Because evidence suggests that the beneficial uses that are identified and in place will be adequately protected and possibly enhanced with these changes, and because potential beneficial use improvements to be realized by additional treatment do not bear a reasonable relationship to the costs to attain them at this time, the Commission concludes that it is economically reasonable to support the change of the aquatic life classification and revision of certain numeric standards on these segments.

Dated this 2nd day of June, 1987, at Denver, Colorado.

33.17 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY, AND PURPOSE: July 6, 1988 Hearing on Little White Snake Creek

The provisions of 25-8-202(1)(a),(b) and (2); 25-8-203; 25-8-204; and 25-8-207 C.R.S. provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted, in compliance with 24-4-103(4), and 24-1-1-3(8)(d), C.R.S., the following statement of basis and purpose and fiscal impact.

BASIS AND PURPOSE:

The Division had no water quality or flow data for the Little White Snake Creek, and made no field inspections prior to the establishment of existing classifications. The Aquatic Life Class 1 and Recreation Class 1 designations are based upon incorrect assumptions made by Division personnel.

The purpose for the rulemaking is to correct the designated classifications and standards to reflect actual natural conditions and to preclude the community of Phippsburg from unnecessarily expending funds for dechlorination and ammonia nitrogen removal.

The basis for the rulemaking follows:

Aquatic Life - The existing Class 1 (cold) classification is not now being attained, nor can it be reasonably attained in the near future due to existing natural conditions such as annual low flow of zero, a silt bottom, lack of spawning beds, and lack of benthic organisms.

The Colorado Division of Wildlife has made a site inspection of the stream segment and has concluded that the stream is not a fishery.

It is obvious that this stream segment is more accurately described by the Aquatic Life Class 2 (cold) definition because "the potential variety of life forms is presently limited primarily by flow and stream bed characteristics". The conditions which presently limit aquatic life forms are natural and are believed "uncorrectable" within a twenty year period.

Recreation - This intermittent stream segment is also unsuitable for Class 1 Recreational activities due to its extremely low flows and drainage ditch character. It is obvious that prolonged intimate contact with the body typical of Class 1 Recreational activities is unlikely.

This rationale is supported in the Colorado Water Quality Control Commission Document entitled "Classifications and Numeric Standards Upper Colorado River Basin and North Platte River (Planning Region 12)." Specifically on page 23 where a discussion of the Recreation Class 1 and Class 2 classifications takes place. "The Commission has decided to classify as Recreation Class 2 those stream segments where primary human contact recreation does not exist and cannot be reasonably expected to exist in the future, and where municipal discharges are present which may be unnecessarily affected by the Recreation Class 1 classification."

This segment from the Phippsburg Sewage Treatment Plant to the Yampa River is better suited for Class 2 Recreation uses.

The Northwest Colorado Council of Governments has voted to change the regional 208 plan to reflect the above conditions and to recommend the Class 2 designations for both Recreation and Aquatic Life classifications.

FISCAL IMPACT:

No costs are anticipated since the petition only requests that the present stream standard classification be modified to reflect ambient conditions of the receiving stream. If the petition had been acted upon unfavorably additional unnecessary expenses would have placed upon the community of Phippsburg under requirements of its discharge permit which is based upon Class 1 standards for recreation and aquatic life.

Parties to the hearing:

Routt County

33.18 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY, AND PURPOSE: July 6, 1988 Hearing on Segment 13 of the Yampa River

The provisions of 25-8-202(1)(a),(b) and (2); 25-8-203; 25-8-204; and 25-8-207 C.R.S. provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted, in compliance with 24-4-103(4), and 24-4-103(8)(d), C.R.S., the following statement of basis and purpose and fiscal impact.

BASIS AND PURPOSE:

The purpose of this rule is to remove the water supply classification from portions of Segment 13 in which there are no domestic users, and in which the classification is not necessary to protect downstream domestic uses. This result is accomplished by separating these portions of Segment 13 into a separate new segment and removing the water supply classification from the new segment.

The basis for the rulemaking follows:

- A. There is no domestic water use on Fish, Foidel and Middle Creeks.
- B. Domestic use is unlikely to occur in the foreseeable future on Fish, Foidel and Middle Creeks because virtually all adjoining property is owned or controlled either by the Forest Service or by Colorado Yampa Coal Company (CYCC), and is used for coal mining purposes. Additionally, the intermittent nature of the natural streamflow makes use of water in these creeks for domestic purposes impractical.

- C. Removing the water supply use classification from resegmented Fish, Foidel and Middle Creeks will not degrade water quality, cause exceedances of applicable water quality standards to protect aquatic life (if any) in the new segment or in Trout Creek or impair existing water supply uses in Trout Creek downstream. In fact, the reclassification and resegmentation would recognize the existing situation and the reality that downstream domestic users are not being impaired at current treatment levels. Extensive and sound data was submitted establishing that no unacceptable degradation will occur. Downstream domestic water users will not be adversely impacted by the change.
- D. The petitioner asserted that an additional basis for the rule is that the previous classification would have resulted in areawide adverse social and economic impacts. Studies indicate that it would cost CYCC \$1,670,000.00 to construct a treatment plant to remove dissolved manganese from its discharges to levels previously mandated by the water quality standards and classifications. In addition, the treatment plant would cost approximately \$596,000.00 annually to operate and maintain. The costs do not include the cost of disposal of 7,900 cubic years per year of sludge which would result from the treatment. The cost of this disposal is not estimated here because the sludge cannot be characterized conclusively in advance, and correspondingly it cannot be said with certainty what regulatory requirements might apply to its disposal.

These unreasonable costs are wholly out of proportion to any benefit provided by the current stringency of the standards. These costs, if CYCC were required to incur them, raise the question whether the mine can continue to operate. The impact on the area, socially and economically, of mine closure, including loss of jobs, salaries, tax revenues, and other economic benefits, would be severe, and is not justified by the negligible benefit (if any) to water quality effected by the current standard and use classification.

A study conducted from CYCC by the Center for Economic Analysis at the University of Colorado at Boulder concludes that closure of the mine, in addition to causing the loss of jobs of 43 CYCC employees, could also be expected to result in the loss of 58 additional jobs in the region and throughout the State. The lost wages would total \$2,870,000. 70% of these impacts would be felt in the region where the mine is located.

FISCAL IMPACT:

The regulation will have no adverse fiscal impacts on the public sector. The proposed changes actually represent existing water usage patterns. There is no danger to aquatic life populations in the new segment or downstream. Additionally, the rule will not fiscally adversely affect downstream water users. However, the negative impact on CYCC would be great, including \$1,670,000 of capital investment and approximately \$596,000 a year in operation and maintenance cost.

The rule will have a fiscally positive impact both on CYCC and the area in which it operates. CYCC may continue to operate and need not expend prohibitive sums on treatment. In turn the area will continue to benefit from the economic effects on the community of continued operation, including jobs, salaries, disposable income for the local economy and tax revenues.

Parties to the hearing:

Colorado Yampa Coal Company

33.19 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER, 1990 HEARING ON SEVERAL SEGMENTS:

The provisions of 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402 C.R.S. provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4), C.R.S., the following statement of basis and purpose.

Basis and Purpose:

First, the Commission has adopted new introductory language for the tables in section 3.3.6. The purpose of this language is to explain the new references to "table value standards" (TVS) that are contained in the Tables. These provisions also include the adoption of new hardness equations for acute and chronic zinc standards throughout the basin. Based on information developed since the "Basic Standards" were revised, these new equations have been determined to represent more appropriate zinc criteria. New information contained in a 1987 EPA zinc criteria document indicates Colorado's zinc criteria is overly restrictive, especially at hardness in the range of 50 to 200 mg/l. Adoption of the Colorado zinc criteria as site-specific TVS standards may potentially cause undue treatment costs to dischargers who would be regulated by those standards until they could be adjusted through a section 207 hearing or during the next round of basin hearings.

The existing criteria for zinc contained in the "Basic Standards" was developed by the Commission's Water Quality Standards and Methodologies Committee. At the time of development, the EPA zinc criteria document was not available. Because of some limited data indicating a consistent chronic toxicity level at water hardnesses of 200 mg/l or less, the Commission adopted a chronic criteria of 45 ug/l for hardness of 0 to 200 mg/l. This is much more stringent than EPA criteria which, as an example, specifies chronic zinc levels of 59 ug/l and 190 ug/l at hardness of 50 mg/l and 200 mg/l, respectively.

The Commission also has adopted additional organic chemicals standards for certain aquatic life segments. The standards added in section 3.3.5(2)(e) are based on water and fish ingestion criteria contained in the U.S. Environmental Protection Agency's <u>Quality Criteria for Water, 1986</u> and updates to this document through 1989, which is commonly referred to as the "Gold Book". The standards are being applied to all Class 1 aquatic life segments. The standards are based on a 10-6 risk factor.

The application of these standards to waters where actual or potential human ingestion of fish is likely is important in assuring that Colorado achieves full compliance with the toxics requirement of section 303(c)(2)(B) of the federal Clean Water Act. It is reasonable to assume that most Class 1 aquatic life segments, because of their variety of fish species and/or suitable habitat, have the potential for fishing and the resultant human consumption of the fish or other aquatic life.

One other general issue should be addressed at the outset. Several parties to this proceeding submitted documents expressing concern regarding the adoption of high quality 2 designations because of potential impact on water rights held by these entities. The Commission transmitted these document to the State Engineer and the Colorado Water Conservation Board to solicit any comments that they might have. In its transmittal letter, the Commission stated its preliminary assessment that the proposed adoption of high quality 2 designations did not present the potential to cause material injury to water rights.

The high quality designation merely indicates that an antidegradation review will be required for certain activities. In its regulations, the Commission has specifically provided that in an antidegradation review "any alternatives that would be inconsistent with section 25-8-104 of the Water Quality Control Act shall not be considered available alternatives." If an issue should arise as to whether the antidegradation review criteria prohibiting material injury are being applied correctly to a specific proposed activity, that issue would be considered during that specific review process, including going through consultation with the State Engineer and the Water Conservation Board.

The Commission received a letter back from the State Engineer, stating his agreement with the Commission's preliminary assessment. No letter was received from the Water Conservation Board, although the Board had previously indicated its agreement with a similar conclusion when this issue was raised in an earlier rulemaking hearing. Upon consideration of all of the available information, the Commission has determined that the adoption of high quality 2 designations in this proceeding does not cause material injury to water rights.

The other changes considered and adopted are addressed below by segment.

A. Overview of Segment-Specific Changes

Two principal issues were in controversy for several of the segments addressed in this hearing. The most controversial was whether to apply a high quality 2 designation to certain waters. In several instances, designations proposed by the Water Quality Control Division were opposed on the basis that there was inadequate information to support such a designation. The three most common challenges to the adequacy of the information were: (1) detection limits for some data were too high to determine whether ambient quality was better than "table values;" (2) for some segments there was not adequate data for some or all of the twelve parameters referenced in section 3.1.8(2)(b)(i)(C); (3) for some segments the sample location(s) of available data were too limited to generalize the results to the whole segment.

The Commission explicitly considered establishing minimum data requirements when it adopted the current antidegradation regulation, and consciously rejected that option. Rather, the Commission recognized that it would be necessary to rely on best professional judgment to determine what constitutes representative data in a specific situation. These issues are not new, or unique to high quality designations. The Commission has for years been required to make water quality classification and standards decisions in the absence of perfect information. Requiring substantial, recently acquired data for all parameters from multiple locations in each segment before establishing high quality designations would assure that very few waters in Colorado would receive this protection for many years to come. As a policy matter, the Commission has determined that high quality designations may appropriately be established based on a lower threshold of available data than that suggested by several parties to this proceeding.

The Commission acknowledges that the data base for the key parameters on a number of segments that were considered for high quality designation is less than ideal. On some segments, there is no specific data available from points within the segments for some of the key parameters. In addition, some of the data represents the results of a small number of locations on the segments. In light of this fact, the Commission continues to encourage all interested parties to participate in efforts to improve the data base, and thereby further strengthen the decision-making process.

The Commission also notes that having adequate information upon which to base a high quality designation is not dependent solely on the availability of specific data for a particular segment. Relevant information may include data from downstream segments, comparison of available data with that for similar streams, and information regarding the presence or absence of activities likely to adversely impact the quality of the segment in question.

Where there is a substantial basis for considering a high quality 2 designation, in the face of some residual uncertainty the Commission has chosen to err in the direction of providing the protection. This policy decision is strongly influenced by the ease with which designations can be changed if better data is developed in the future. Unlike classifications, downgrading restrictions do not apply to water quality designations. If new site-specific data is developed that demonstrates that a particular high quality designation is improper, it can and should be removed by the Commission.

With respect to detection limits, the Commission has chosen to continue the same policy that it has followed for over then years—i.e. to treat data reported as below detection limits as being equivalent to zero. While other methodologies have been proposed and may be defensible, the Commission has determined that this approach is reasonable and appropriate. Requiring routine analysis to below table value standard levels for all constituents would substantially increase monitoring costs for the state and the public. Moreover, the Commission believes that the "zero" assumption is fair, so long as it is applied consistently throughout the water quality regulatory system.

Use of zeros in the water quality designation or standard-setting process may marginally err in the direction of increased protection. However, when zeros are used in applying standards to specific dischargers, those dischargers benefit by the assumption that there is more assimilative capacity available in the stream (allowing higher levels of pollutants to be discharged) since the existing pollution is considered to be zero rather than some level between zero and the detection limit.

The second recurring issue addressed for multiple segments in this hearing was whether to establish a recreation class 1 classification wherever a high quality 2 designation is established. The Division proposed this classification change for applicable segments, since the high quality 2 designation indicates that such segments have adequate water quality to support the recreation class 1 use. However, the Commission generally has declined to change the recreation classification from class 2 to class 2 uses in such circumstances, unless there was also evidence submitted that class 1 uses were present or likely for the waters in question. Unless the use is present or likely, application of use-protection-based water quality standards does not appear appropriate. At the same time, the Commission notes that this approach does not diminish application of antidegradation protection requirements for high quality waters. Where the existing quality is adequate, a high quality 2 designation has been established, requiring antidegradation requirements to be met before any degradation is allowed, even though the recreation classification is class 2.

A related issue is the determination of which uses warrant the class 1 recreation classification. The recreation classification definition in section 3.1.13 (1)(a)(i) of the Basic Standards and Methodologies for Surface Water refers to "activities when the ingestion of small quantities of water is likely to occur," and states that "such waters include but are not limited to those used for swimming." In the past the Commission often has applied the class 1 classification only when swimming occurs, and not where other recreational uses that may result in ingestion of small quantities of water occur. The Commission now believes it is appropriate for the class 1 classification also to be applied for uses such as rafting, kayaking, and water skiing.

The appropriateness of recreation class 1 versus class 2 classifications was debated for several segments in the Upper Colorado Basin. The Commission has received information regarding actual recreational uses. It has also received substantial input regarding the propriety (or lack thereof) of broadening the application of the class 1 recreation classification, based upon an evolving interpretation of the Basic Standards language. After lengthy discussion, the commission has decided that it is appropriate as a matter of policy in this proceeding to apply the recreation class 1 classification for all uses that involve a significant likelihood of ingesting water, including but not necessarily limited to rafting, kayaking, and water skiing. In particular, the uses at issue for segments in this basin were kayaking and rafting. The Commission has received substantial testimony that kayaking often results in water ingestion. In addition, the testimony presented in this and prior proceedings, as well as the personal experience of individual Commissioners, indicates that rafting--white water or otherwise--also presents a significant potential for water ingestion.

Section 3.1.6(1)(d) of the Basic Standards and Methodologies for Surface Water requires the Commission to establish classifications to protect all actual uses. Therefore, for waterbodies where rafting and kayaking is an actual use, the recreation class 1 use classification should be applied, since ingestion of water is likely to occur. The Commission sees no reason to distinguish between ingestion that may result from swimming and ingestion that may result from rafting or kayaking. In fact, there has been some testimony indicating that ingestion is more likely to result from the latter activities.

The Commission wishes to emphasize that the action that it is now taking is consistent with the existing definition of class 1 recreation uses. Some of the comments submitted stated or suggested that the action now being taken by the Commission would constitute a "definitional change" that should be addressed only in a review of the Basic Standards and Methodologies for Surface Water. No change in the regulatory definitions of the classifications is being considered or adopted at this time. Rather, the Commission is applying what it believes to be the proper interpretation of the existing definition.

The Commission believes that as a matter of policy it is not necessary or appropriate to wait until the July, 1991 rulemaking hearing regarding the Basic Standards and Methodologies for Surface Water to implement its current interpretation of the class 1 recreation classification. Over the last decade, there have been many instances when arguments and facts presented in basin-specific rulemaking hearings have resulted in an evolving interpretation of the provisions of the Basic Standards and Methodologies for Surface Water. This Commission is not bound by interpretations made by its predecessors in other basin-specific hearings. To the degree that the class 1 recreation classification in the past has not been applied for some existing activities that involve a likelihood of ingesting water, the Commission now believes that such decisions were in error.

This action does not improperly exclude input from entities interested in other river basins. First, the Commission specifically reopened an earlier hearing on the Gunnison Basin and received input from entities not specifically concerned with that basin. This issue has now received extensive consideration in three separate basins. Moreover, the Commission can further modify its policy if in other basin-specific reviews, or in the upcoming review of the Basic Standards and methodologies, parties that did not participate in this proceeding bring forth new considerations that the Commission believes warrant a modification in the approach to recreation classifications that is now being adopted. The Commission also does not believe that there was any problem with the notice provided for the specific segments at issue in this hearing. Each of the segments for which the recreation classification is being changed from class 2 to class 2 in the original hearing notice. Although the basis for this proposal evolved during the hearing, any parties potentially concerned with a recreation class 1 classification were on notice that this change would be considered in this hearing.

In applying the interpretation of the existing recreation class 1 definition that has been described, the Commission is also influenced by the fact the importance of recreational uses of surface waters in Colorado has increased over the last decade. Testimony in this and prior proceedings indicated that uses such as rafting and kayaking have expanded substantially, and it is therefore even more important that adequate water quality protection now be provided.

Some of the testimony submitted addressed the appropriateness of the current fecal coliform standards that are applied in association with recreation classifications. The Commission believes that the appropriateness of the existing standards can and should be addressed, when and if there is new evidence available indicating that the current standards are not appropriate. However, changes in such standards were not at issue in this hearing. The Commission believes that questions regarding the appropriate numerical standards should not interfere with its obligation to establish appropriate classifications to protect existing uses. If members of the public have information indicating that a different indicator parameter should be used, or that different fecal coliform levels are appropriate for the respective recreation classifications, that issue can and should be considered in the upcoming review of the Basic Standards and Methodologies for Surface Water.

Comment also has been submitted to the Commission expressing concern regarding the potential effect of downgrading restrictions, should the Commission now adopt class 1 recreation classifications for certain waters and later change its views regarding the appropriate approach to recreation classifications. The Commission does not believe that this presents a substantial problem. Downgrading is appropriate only when a use is not in place. So long as the class 1 recreation classification is defined as including activities that involve ingestion, applying that classification to waters where uses involving ingestion are present should not present a downgrading issue in the future. If the Commission at some later date should completely revise its approach to, and definition of, recreation classifications, application of the new system would involve a set of "de novo" determinations, and not questions regarding upgrading or downgrading.

The Commission recognizes that the approach now being adopted may result in increased economic impacts for some dischargers, to meet the class 1 classifications. The evidence that has been submitted to the Commission indicates that in many instances this will not be the case, because state-wide effluent limitations for fecal coliform and chlorine standards to protect aquatic life will often drive the level of disinfection and dechlorination that are required. Moreover, in some circumstances it may be possible for the Division to consider an expanded use of seasonal effluent limitations that take low flow or high flow circumstances into account. However, irrespective of these considerations, a potential increase in treatment requirements for some dischargers cannot eliminate the Commission's obligation to classify state waters to protect actual uses.

Finally, concern was expressed that the approach now taken by the Commission will result in inconsistency regarding recreation classifications for different waters throughout the state. Anytime a policy interpretation changes or evolves in any significant way, the first time the change is applied to specific state waters there will be come inconsistency among individual water bodies, since site-specific classifications and standards are addressed on a basin-by-basin basis. However, it is the Commission's intention to apply its policy interpretations consistently as individual basins are addressed. This is now the third basin in which this approach has been applied.

B. Aquatic Life Class 1 with Table Values; New High Quality 2 Designations

Upper Colorado River segments 3, 4, 5, 7a, 8 Blue River segments 1, 3, 8, 10, 15, 17, 18 Eagle River segments 2, 3, 4, 6, 8, 12 Roaring Fork River segments 2, 3, 5, 6, 7, 8, 10 North Platte River segment 3 Yampa River segments 2a, 3, 9, 10, 11, 18

Numerical standards for metals for these segments have in most instances been based on table values contained in Table III of the previous Basic Standards and Methodologies for Surface Water. Table III has been substantially revised, effective September 30, 1988. From the information available, it appears that the existing quality of these segments meets or exceeds the quality specified by the revised criteria in Table III, and new acute and chronic table value standards based thereon have therefore been adopted. There are also some of these segments whose previous standards were based in part on ambient quality, since their quality did not met old table values based on alkalinity ranges. However, these segments generally have much higher hardness than alkalinity, and the new table values (based on hardness-dependent equations) are now appropriate as standards.

One exception to the adoption of table value standards is Blue River segment 1, for which the standards have been left unchanged. There is an insufficient data base to convert this segment to new standards based on dissolved data.

A High Quality 2 designation has been established for each of these segments. Generally for these segments, the best available information in each case indicates that the existing quality for dissolved oxygen, pH, fecal coliform, cadmium, copper, iron, lead, manganese, mercury, selenium, silver and zinc is better than that specified in Tables I, II, and III of the Basic Standards and Methodologies for Surface Water, for the protection of aquatic life class 1 and recreation class 1 uses.

Dillon Reservoir, segment 3 of the Blue River is included in this group. In addition to new TVS, the special total phosphorus standard in effect for this segment is retained. Upper Colorado segment 7a is the same as old segment 7 with Rock Creek segmented out as segment 7b, since the Commission did not find that a high quality designation is appropriate for Rock Creek at this time. Blue River segment 1 has been combined with former segment 2 since the reason for separate segments no longer exists. (A new segment 2 has been established, as described below.) Blue River segment 3 has been combined with former segment 4, and Blue River segment 17 has been combined with former segment 19, since in each case there is currently no reason for different standards, classifications or designations on the segments that were combined. Yampa river segment 2a is the same as old segment 2 with Stagecoach Reservoir carved out as a new segment 2b, due to its differing water quality characteristics.

C. Existing High Quality 2 Segments; New Classifications and Standards

Upper Colorado River segment 9 Blue River segment 16 Eagle River segment 1 North Platte River segment 2 Yampa River segments 8, 19

These segments were already described as High Quality class 2, and available information indicates that the parallel new High Quality 2 designation continues to be appropriate for each. All are within wilderness areas. In addition, the following use classifications, and associated table value standards, have been adopted for these segments:

Recreation - Class 2 Cold Water Aquatic Life - Class 1 Water Supply Agriculture

These classifications and standards are appropriate based on the best available information regarding existing quality and uses. These provisions would apply in the event that degradation is determined to be necessary following an activity-specific antidegradation review.

D. <u>Existing High Quality 1 Segments; New Designations</u>

Upper Colorado River segment 1 Roaring Fork River segment 1 North Platte River segment 1 Yampa River segment 1

These segments were already described as High Quality Class 1, and available information indicates that the parallel new High Quality 1 designation continues to be appropriate for each. All are within wilderness areas.

E. New Use-Protected Designations; No Change in Numeric Standards

Blue River segment 20 Eagle River segment 11 North Platte River segment 7 Yampa River segments 4b, 12

These segments all qualify for a use-protected designation based on their present classifications. All are aquatic class 2 streams. Existing standards are recommended because these segments, except Yampa segment 4b, have only a minimal number of standards, with no metal or nutrient standards. For Yampa segment 4b there is no water quality data to support changing to the new dissolved standards.

F. <u>New Use-Protected Designations; Revised Numeric Standards</u>

Upper Colorado River segments 6b, 6c Blue River segments 5, 6, 7, 11, 12 Eagle River segment 5 Roaring Fork River segment 4 North Platte River segments 4, 5

All of these segments (except Eagle river segment 5, which is addressed separately below) are aquatic life class 2 streams with numeric standards to protect the existing aquatic life. Except as specified below, numerical standards for metals have been based on table values contained in Table III of the previous Basic Standards and Methodologies for Surface Water. Table III has been substantially revised, effective September 30, 1988. From the information available, it appears that the existing quality of these segments meets or exceeds the quality specified by the revised criteria in Table III, and new acute and chronic table value standards based thereon have been adopted. There are also some of these segments whose previous standards were based in part on ambient quality, since their quality did not meet old table values based on alkalinity ranges. However, these segments generally have much higher hardness than alkalinity, and the new table values (based on hardness-dependent equations) are now appropriate as standards.

Ambient quality-based standards:

Segment	Constituents, ug/l
Blue River segment 6	Cd(ch) = 1.5
_	Cu(ch) = 9
	Pb(ch) = 3
	Zn(ch) = 210
	Mn(ch) = 170 (dis)
Blue River segment 11	Cd(ch) = 4
_	Zn(ch) = 1980
North Platte segment 4	Mn(ch) = 100 (dis)
North Platte segment 5	Mn(ch) = 100 (dis)

In addition, only minimal standards, without metal or nutrient standards, are established for Upper Colorado segment 6b. Former Upper Colorado segment 6 has been resegmented into segments 6a, 6b, and 6c, due to differing water quality conditions in the three new segments. A temporary modification for ammonia, set at ambient to reflect existing conditions of discharge and agricultural activities, has been established on segment 6c. This will allow the Three-Lakes Sanitation District time to conduct monitoring of the segment and determine the existing ammonia levels and possible treatment required to meet underlying TVS. Minimal standards remain in place for Blue River segment 5. The pH range for the latter has been changed to 6.0-9.0. Phosphorus removal at the Summit County Snake River Wastewater Treatment Plant has the potential to violate the 6.5 unit lower limit. Changing the lower limit to 6.0 should not impact the aquatic life in this class 2 cold water stream.

For Eagle River segment 5 the Commission has retained the existing standard, except that zinc has been changed to a dissolved standard of 400 ug/l.

Finally, expiration dates have been added for the temporary modification for Blue River segment 7 and Eagle River segment 5. The existing standards for Blue River segment 7 (Peru Creek) have been left unchanged, pending new data reflecting the results of an inactive mine drainage treatment project that is now in place.

G. No Change in Classification; No Designations; Revised Numeric Standards

Upper Colorado segments 2, 6a, 7b, 10
Blue River segments 2, 13, 14
Eagle River segment 10
Roaring Fork segment 9
North Platte segment 6
Yampa River segments 2b, 4a, 5, 6, 7, 13a, 13b, 14, 15?, 16?, 17?

Upper Colorado segment 2

Segment 2 of the Upper Colorado includes Grand Lake, Shadow Mountain Lake and Lake Granby. These lakes and reservoirs form part of the Colorado-Big Thompson Project. Lake Granby and Shadow Mountain Lake are located within the Arapahoe National Recreation Area, which is adjacent to Rocky Mountain National Park and the Indian Peaks Wilderness Area. Grand Lake is adjacent to the National Park and the Recreation Area, and receives natural tributary flows from Rocky Mountain National Park. Because of the locations of these reservoirs, the Commission preliminarily determined that exceptional reasons existed to designate Segment 2 as High Quality 2. The Northern Colorado Water Conservation District and Municipal Subdistrict (the "District") thereafter moved the Commission to reconsider this designation, in part because of the perceived potential interference with the District's water rights. The District also argued that the data for this segment indicated that the water quality is worse than table values for lead, cadmium, and silver, and therefore the segment should be designated use-protected.

The Commission agreed to reconsider its preliminary designation, and reopened the record to allow interested parties to submit written comments, and to comment orally at the Commission's April meeting. As a result of this reconsideration, the Commission changed its preliminary decision, and has decided to leave Segment 2 undesignated.

Taking into account all of the available information, including (1) the authorized uses of the waters in this segment, (2) the available data for this segment, and (3) the potential for interference with water rights if other agencies apply the high quality designation in a manner inconsistent with section 25-8-104, the Commission has determined that the provisions of section 3.1.8(2) do not warrant a High Quality 2 designation for this segment at this time. In addition, the Commission recognized that the antidegradation review is already presumptively applicable to this segment because of its current classification as cold water aquatic life 1. Because Segment 2 is presumptively subject to an antidegradation review without the High Quality 2 designation the Commission does not believe designating segment 2 High Quality 2 provides any significant additional protection. By finding that segment 2 should not be designated High Quality 2, the Commission is not determining that the location of a segment within a National Recreational Area, or within or adjacent to a National Park or Forest could not be an exceptional reason for designation as High Quality 2. The Commission is only stating that in this particular case the Commission has determined that the facts do not support a designation as High Quality 2 at this time. The Commission encourages the collection of additional data so that the appropriate designation of this segment can be reassessed with more complete information in the future.

Other Segments

These are water bodies whose classifications are appropriate for HQ2 designation (CW1 or WW1 and Rec 1) but had quality not suitable for a water supply classification or 85th percentile values of one or more parameters exceeding the criteria for class 1 aquatic life. Table value standards have generally been adopted for these segments, except as indicated below.

Due to uncertainties about the aquatic life class 1 classification in Willow Creek below the Bunte Ditch Diversion, segment 6a, the existing classification was retained but the segment was left undesignated. It is anticipated that a use attainability study will be completed on this reach by the next triennial review.

A temporary modification for mercury has been adopted for new segment 7b (Rock Creek), pending further evaluation of mercury levels in this stream. For new Blue River segment 2, the reach below French Gulch, 5 year temporary modifications have been established based on existing ambient quality. For Blue River segments 13 and 14, the following ambient quality-based standards have been established:

Segment	Constituents, ug/l
Blue River segment 13	CN(total) = .117
	Mn(ch) = 1.2 (Trec)
Blue River segment 14	CN(total) = .008
	S = 320
	Mn(ch) = .18 (dis)

For Roaring Fork segment 9, a three year temporary modification for iron, Fe(ch) = 2000 ug/l (Trec) has been established.

H. Changes in Classification; No Designations; Revised Numeric Standards

Eagle River segment 9

Review of available data and existing uses indicates that this segment is appropriate to be upgraded to Recreation class 1 with a corresponding fecal coliform standard of 200 MPN/100 ml. Table value standards are adopted for this segment, except that the dissolved manganese temporary modification has been left in place for six years.

I. No Changes in Classifications or Standards; No Designations

Blue River segment 9
Eagle River segment 7

No data are available on Blue River segment 9 to warrant revising the standards at this time. Variable data during Eagle Mine cleanup efforts make any change in standards for Eagle River segment 7 premature, although the description of this segment has been revised to exclude certain waters that are now included in Eagle River segment 1.

Parties to the December, 1990 Hearing

- 1. Summit County Government through its Snake River Sewer Fund
- 2. Copper Mountain Inc.
- 3. Copper Mountain Water & Sanitation District
- 4. Breckenridge Ski Corporation
- 5. Breckenridge Sanitation District
- 6. AMAX Inc.
- 7. The Winter Park Water & Sanitation District

- 8. The Granby Sanitation District
- 9. The Fraser Sanitation District
- 10. The Grand County Water & Sanitation District
- 11. Division of Wildlife
- 12. Pitkin County Board of County Commissioners
- 13. Upper Colorado River Lake Production Association
- 14. Colorado River Water Conservation District
- 15. Eagle Sanitation District
- 16. Three Lakes Water & Sanitation District
- 17. Upper Eagle Regional Water Authority
- 18. Upper Eagle Valley Consolidated Sanitation District.
- 19. Vail Valley Consolidated Water District
- 20. The Town of Gypsum
- 21. City & County of Denver acting by and through its Board of Water Commissioners
- 22. The City of Colorado Springs Water Department
- 23. Mid-Continent Resources, Inc.
- 24. Winter Park Recreational Association
- 25. Keystone Resorts Management, Inc.
- 26. The Northern Colorado Water Conservancy District
- 27. Morrison Creek Metropolitan Water & Sanitation District
- 28. The City of Steamboat Springs
- 29. Routt County
- 30. Aspen Consolidated Sanitation District
- 31. The Town of Frisco
- 32. Summit County
- 33. Grand County
- 34. The Town of Montezuma
- 35. The Town of Grand Lake
- 36. Eagle County
- 37. The Town of Vail
- 38. Summit Water Quality Committee
- 39. East Dillon Water District
- 40. Upper Yampa Water Conservancy District
- 41. Lake Catamount No. 1 Metro District
- 42. Paramount Communications Inc.
- 43. Silverthorne/Dillon Joint Sewer Authority

33.20 FINDINGS REGARDING BASIS FOR EMERGENCY RULE SEPTEMBER 9, 1991:

The Commission held this emergency rulemaking hearing to readopt the numerical standards for one segment of the Upper Colorado River Basin to correct clerical errors in the original filing. The affected regulation was amended on May 8, 1991, and was filed within the required timeframes with the Secretary of State's Office and the Office of Legislative Legal Services. The Commission learned recently that there were errors in the published version of the numerical standards for segment 5 of the Eagle River, page 8 of the tables.

The Commission finds that the immediate adoption of the revised regulation is imperatively necessary for the preservation of public health, safety, or welfare and that compliance with normal notice requirements would be contrary to the public interest. Emergency adoption is necessary to assure that the published regulation is consistent with the regulation that the Commission adopted, to avoid confusion for the public and to assure than an anticipated request for permit revisions for a discharge by Paramount Communications Inc. to this segment is processed in a manner consistent with the Water Quality Control Commission's water quality standards decisions.

33.21 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; JANUARY, 1992 HEARING:

The provisions of 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402 C.R.S. provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4), C.R.S., the following statement of basis and purpose.

Basis and Purpose:

On May 8, 1991, following a rulemaking hearing on December 3, 1990, the Commission took final action to adopt numerous revisions to water quality classifications and standards throughout the Upper Colorado River Basin. On September 9, 1991 the Commission held an emergency rulemaking hearing to correct certain clerical errors in the revisions as filed following May 8 action, specifically relating to segment 5 of the Eagle River. To reflect the proper classifications and standards for this segment, the correction of these clerical errors has now been made permanent.

In addition, clerical errors for segment 7 of the Eagle River have also been corrected in this hearing.

PARTIES TO THE JANUARY 6, 1992 HEARING

1. Paramount Communications, Inc.

33.22 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; MARCH 1, 1993 HEARING:

The provisions of 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402 C.R.S. provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4), C.R.S., the following statement of basis and purpose.

BASIS AND PURPOSE:

The changes to the designation column eliminating the old High Quality 1 and 2 (HQ1, HQ2) designations, and replacing HQ1 with Outstanding Waters (OW) designation were made to reflect the new mandates of section 25-8-209 of the Colorado Water Quality Act which was amended by HB 92-1200. The Commission believes that the immediate adoption of these changes and the proposals contained in the hearing notice is preferable to the alternative of waiting to adopt them in the individual basin hearings over the next three years. Adoption now should remove any potential for misinterpretation of the classifications and standards in the interim.

In addition, the Commission made the following minor revisions to all basin segments to conform them to the most recent regulatory changes:

- 1. The glossary of abbreviations and symbols were out of date and have been replaced by an updated version in section 3.3.6(2).
- 2. The organic standards in the Basic Standards were amended in October, 1991, which was subsequent to the basin hearings. The existing table was based on pre-1991 organic standards and are out of date and no longer relevant. Deleting the existing table and referencing the Basic Standards will eliminate any confusion as to which standards are applicable.
- 3. The table value for ammonia and zinc in the Basic Standards was revised in October, 1991. The change to the latest table value will bring a consistency between the tables in the basin standards and Basic Standards.

4. The addition of acute un-ionized ammonia is meant to bring a consistency with all other standards that have both the acute and chronic values listed. The change in the chlorine standard is based on the adoption of new acute and chronic chlorine criteria in the Basic Standards in October, 1991.

Finally, the Commission confirms that in no case will any of the minor update changes described above change or override any segment-specific water quality standards.

33.23 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE: AUGUST 2, 1993 RULEMAKING HEARING:

The provisions of Sections 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402 C.R.S., provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted, in compliance with 24-4-103(4), C.R.S., the following statement of basis and purpose.

BASIS AND PURPOSE:

The temporary modification for the un-named tributary near Willow Creek, Segment 6c, would have expired before either the ongoing studies were completed, or the next rulemaking hearing was held. The short-term extension granted here will allow for a 207 hearing to proceed with the benefit of a complete data set late in 1994.

The Eagle River temporary modifications were established to accommodate a Superfund cleanup schedule. It was not possible to simple reaffirm the originally scheduled expiration data because that would have resulted in a greater than three year duration, a practice contrary to Commission policy. The expiration date selected will not extend beyond three years, and will allow the temporary modification to be reconsidered factoring in recent data at the basin rulemaking anticipated mid to late 1995.

33.24 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE, SEPTEMBER 7. 1993:

The provisions of 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402 C.R.S., provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted, in compliance with 24-4-103(4), C.R.S., the following statement of basis and purpose.

BASIS AND PURPOSE:

On November 30, 1991, revisions to "The Basic Standards and Methodologies For Surface Water", . 3.1.0 (5 CCR 1002-8), became effective. As part of the revisions, the averaging period for the selenium criterion to be applied as a standard to a drinking water supply classification was changed from 1-day to 30-day duration. The site-specific standards for selenium on drinking water supply segments were to be changed at the time of rulemaking for the particular basin. Only one river basin, the South Platte, has gone through basin-wide rulemaking since these revisions to the "Basic Standards". Through an oversight, the selenium standards was not addressed in the rulemaking for this basin and has since become an issue in a wasteload allocation being developed for segments 15 and 16 of the South Platte. Agreement on the wasteloads for selenium is dependent upon a 30-day averaging period for selenium limits in the effected parties permits. Therefore, the parties requested that a rulemaking hearing be held for the South Platte Basin to address changing the designation of the 1- ug/l selenium standard on all water supply segments from a 1-day to a 30-day standard. The Water Quality Control Division, foreseeing the possibility of a selenium issue arising elsewhere in the state, made a counter proposal to have one hearing to change the designation for the selenium standard on all water supply segments statewide. The Commission and the parties concerned with South Platte segments 15 and 16 agreed that this would be the most judicious way to address the issue.

The change in the averaging period may cause a slight increase in selenium loads to those segments which have a CPDS permits regulating selenium on the basis of a water supply standard. However, these segments are only five in number and the use will still be fully protected on the basis that the selenium criterion is based on 1975 national interim primary drinking water regulations which assumed selenium to be a potential carcinogen. It has since been categorized as a non-carcinogen and new national primary drinking water regulations were promulgated in 1991 that raised the standard to 50 ug/l.

The Commission also corrected a type error in the TVS for Silver by changing the sign on the exponent for the chronic standard for Trout from + 10.51 to - 10.51

33.25 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE:

The provisions of Sections 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402 C.R.S., provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted, in compliance with 24-4-103(4), C.R.S., the following statement of basis and purpose.

BASIS AND PURPOSE:

The Commission has extended the temporary modification for un-ionized ammonia on stream segment 6c in the Upper Colorado River Basin until March 1, 1996. This extension is to allow the Three Lakes Water and Sanitation District to continue sampling and collecting data on stream segment 6c through the fall, winter, and spring seasons, 1994-1995. This data will be analyzed and, if deemed necessary by the District, presented in a formal petition for revisions to the use classifications and/or water quality standards, to be considered in a November, 1995 rulemaking hearing.

33.26 PROPOSED STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE (1995 Silver hearing)

The provisions of C.R.S. 25-8-202(1)(b), (2) and 25-8-204; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

The changes described below are being adopted simultaneously for surface water in all Colorado river basins.

This action implements revisions to the Basic Standards and Methodologies for Surface Water adopted by the Commission in January, 1995. As part of a July, 1994 rulemaking hearing, the Commission considered the proposal of various parties to delete the chronic and chronic (trout) table values for silver in Table III of the Basic Standards. As a result of that hearing, the Commission found that the evidence demonstrated that ionic silver causes chronic toxicity to fish at levels below that established by the acute table values. It was undisputed that silver is present in Colorado streams and in the effluent of municipal and industrial dischargers in Colorado. The evidence also demonstrated that the removal of silver from wastewater can be costly. However, there was strongly conflicting scientific evidence regarding the degree to which silver does, or could in the absence of chronic standards, result in actual toxicity to aquatic life in Colorado surface waters. In particular, there was conflicting evidence regarding the degree to which the toxic effects of free silver are mitigated by reaction with soluble ligands to form less toxic compounds and by adsorption to particulates and sediments.

The Commission concluded that there is a need for additional analysis of the potential chronic toxicity of silver in streams in Colorado. The Commission encouraged the participants in that hearing, and any other interested parties, to work together to develop additional information that will help resolve the differences in scientific opinions that were presented in the hearing. The Commission believes that it should be possible to develop such information within the next three years.

In the meantime, the Commission decided as a matter of policy to take two actions. First, the chronic and chronic (trout) table values for silver have been repealed for the next three years. The Commission is now implementing this action by also repealing for the next three years, in this separate rulemaking hearing, all current chronic table value standards for silver previously established on surface waters in Colorado. Any acute silver standards and any site-specific silver standards not based on the chronic table values will remain in effect. The Commission intends that any discharge permits issued or renewed during this period will not include effluent limitations based on chronic table value standards, since such standards will not currently be in effect. In addition, at the request of any discharger, any such effluent limitations currently in permits should be deleted.

The second action taken by the Commission was the readoption of the chronic and chronic (trout) table values for silver, with a delayed effective date of three years from the effective date of final action. The Commission also is implementing this action by readopting chronic silver standards with a corresponding delayed effective date at the same time that such standards are deleted from the individual basins. The Commission has determined that this is an appropriate policy choice to encourage efforts to reduce or eliminate the current scientific uncertainty regarding in-stream silver toxicity, and to assure that Colorado aquatic life are protected from chronic silver toxicity if additional scientific information is not developed. If the current scientific uncertainty persists after three years, the Commission believes that it should be resolved by assuring protection of aquatic life.

In summary, in balancing the policy considerations resulting from the facts presented in the July 1994 rulemaking hearing and in this hearing, the Commission has chosen to provide relief for dischargers from the potential cost of treatment to meet chronic silver standards during the next three years, while also providing that such standards will again become effective after three years if additional scientific information does not shed further light on the need, or lack of need, for such standards.

Finally, the Division notes that arsenic is listed as a TVS standard in all cases where the Water Supply classification is not present. This is misleading since Table III in the Basic Standards lists an acute aquatic life criterion of 360 ug/l and a chronic criterion of 150 ug/l for arsenic, but a more restrictive agriculture criterion of 100 ug/l. It would be clearer to the reader of the basin standards if, for each instance where the standard "As(ac/ch)=TVS" appears, the standard "As=100(Trec)" is being inserted as a replacement. This change should make it clear that the agriculture protection standard would prevail in those instances where the more restrictive water supply use protective standard (50 ug/l) was not appropriate because that classification was absent.

The chemical symbol for antimony (Sb) was inadvertently left out of the "Tables" section which precedes the list of segments in each set of basin standards. The correction of this oversight will aid the reader in understanding the content of the segment standards. Also preceding the list of segment standards in each basin is a table showing the Table Value Standards for aquatic life protection which are then referred to as "TVS" in the segment listings. For cadmium, two equations for an acute table value standard should be shown, one for all aquatic life, and one where trout are present. A third equation for chronic table value should also be listed. The order of these three equations should be revised to first list the acute equation, next the acute (trout) equation, followed by the chronic equation. This change will also aid the reader in understanding the intent of the Table Value Standards.

PARTIES TO THE PUBLIC RULEMAKING HEARING JUNE 12, 1995

- 1. Coors Brewing Company
- 2. The Silver Coalition
- 3. Cyprus Climax Metals Company
- 4. The City of Fort Collins
- 5. The City of Colorado Springs

33.27 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY, AND PURPOSE (SEGMENT 6c, UPPER COLORADO RIVER BASIN)

The provisions of 25-8-202(1)(b) and (2); and 25-8-204 and 25-8-402, C.R.S. provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted, in compliance with 24-4-103(4), C.R.S., the following statement of basis and purpose.

BASIS AND PURPOSE:

A. Summary

In this rulemaking proceeding, the Commission (1) reaffirmed the existing acute and chronic unionized ammonia standards for Segment 6c of the Upper Colorado River Basin and (2) extended the temporary modification for un-ionized ammonia for that segment. With respect to the temporary modification, the Commission understands that existing quality is based on instream monitoring data collected by the District from 1992 through 1995, at the upper boundary of Segment 6c and reflects the District's existing monthly average discharge levels up to 15 mg/l total ammonia.

B. Background

In December, 1990, former Upper Colorado River Basin Segment 6 was resegmented into Segments 6a, 6b and 6c, due to differing water quality conditions in the three new segments. A temporary modification for un-ionized ammonia, set at ambient to reflect existing conditions of discharge and agricultural activities, was established for Segment 6c to allow Three Lakes Water and Sanitation District ("Three Lakes") time to conduct water quality monitoring and aquatic biological surveys of the segment, for the purpose of consideration of site-specific standards. In 1993 and 1994, the temporary modification was extended to allow Three Lakes to continue sampling and collecting data on Segment 6c. When the temporary modification was extended in 1994, the Commission also scheduled a rulemaking hearing for November, 1995, to consider revisions to the use classifications and/or water quality standards for Segment 6c based on the data collected by Three Lakes.

C. <u>Commission Decision</u>

The results of Three Lakes water chemistry monitoring and aquatic biological surveys of Segment 6c indicate that its habitat substantially limits any resident population or natural reproduction of fish species; most of the fish found in the segment are transient from water diversion structures. The Division and EPA remain concerned about the potential impact of un-ionized ammonia contained in the Three Lakes's effluent on aquatic life in the segment. Three Lakes presented evidence and testimony that the cost of providing capital improvements sufficient to meet the underlying standards for the benefit of the few transient fish found in the segment was estimated at 4 million dollars. Three Lakes District is a rural public entity with a limited tax and revenue base to finance any needed capital improvements.

The Commission in this rulemaking hearing approved a five year temporary modification, subject to review at approximately a three year interval into such modification. The parties to this rulemaking have entered into a stipulation which forms the basis for the action now being taken by the Commission. The Commission understands that under the stipulation Three Lakes shall comply with the following terms: (1) during the first three years of the temporary modification, Three Lakes shall enter into a contract with a consulting engineering firm for a study of the alternative facilities necessary to meet the underlying ammonia standards; (2) no later than the end of the fourth year of the temporary modification Three Lakes shall begin exploring financial arrangements for any necessary facilities or improvements to meet the underlying standards; (3) Three Lakes shall not object if its discharge permit is reopened to include the underlying ammonia standards and the five year temporary modification, and it is expected that Three Lakes' permit eventually will include a compliance schedule of approximately three years to begin after expiration of the five year temporary modification so as to allow time for the construction of any improvements or facilities and (4) Three Lakes will continue to monitor for ammonia, pH, temperature and flow in Segment 6c and its effluent.

The Commission has determined that the temporary modification is consistent with Colorado's Basic Standards and EPA's recent policy statement on variances from water quality standards (October 18, 1995 letter from EPA). The underlying ammonia standards which are adopted as part of this rulemaking are adequate to protect public health and the limited aquatic environment of the unnamed tributary and the aquatic life in Willow Creek. Nothing in this Statement of Basis and Purpose shall be construed as prohibiting any person, including the parties to this rulemaking, from requesting review or revision of these underlying standards at some future time.

PARTIES TO THE RULEMAKING

- 1. Three Lakes Water and Sanitation district
- 2. Northern Colorado Water Conservancy District and Municipal Subdistrict
- 3. Northwest Colorado Council of Governments

33.28 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY, AND PURPOSE (1996 RULEMAKING HEARING)

The provisions of 25-8-202(1)(b) and (2); and 25-8-204 and 25-8-402, C.R.S. provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted, in compliance with 24-4-103(4), C.R.S., the following statement of basis and purpose.

BASIS AND PURPOSE:

The changes described below were adopted by the Commission as proposed by the Water Quality Control Division during the rulemaking hearing:

Corrected several errors in the tables for segments not classified for water supply use. The action entailed deletion of NO3, Cl, and SO4 and revision of As, Crlll, and Se of certain standards applied to these segments that reflected protection of a water supply use. The segments whose standards were modified are: Upper Colorado segment 6c, Blue River segments 11 and 13, North Platte River Segment 6, and Yampa River segments 5, 7, and 13b.

The chronic ammonia (NH3) standard in the Yampa River Basin segment 7 was raised from 0.02 to 0.05 to correct a typographical error. The Commission had adopted the 0.05 standard for the segment in 1985 and it was subsequently inadvertently dropped from the table.

On all segments classified for water supply and aquatic life uses, the total recoverable manganese standard of 1000 ug/l is stricken. On segments classified for aquatic life and not water supply the 1000 ug/l standard is designated as dissolved. The aquatic life manganese criterion was changed in 1991 revisions to the Basic Standards from total recoverable to dissolved and on these segments classified for water supply and aquatic life, a more stringent dissolved manganese water supply standard of 50 ug/l is in place.

Mercury standards designated as total recoverable (Trec) are changed to Total (tot). This change reflects the Basic Standards designation of total mercury as the appropriate form of mercury for final residual value (FRV) standards.

The following Water Quality Control Division and Northwest Colorado Council of Governments (NWCCOG) joint proposals were adopted by the Commission.

Upper Colorado segment 7b(Rock Creek) was deleted. Segment 7a was renumbered as segment 7. This segment was no longer requires separate segment designation due to elevated mercury.

Extended (reestablished) the temporary modifications for Blue River segments 2 (Blue River below French Gulch) and 7 (Peru Creek) which had expired on April 30, 1996 in anticipation of improved water quality in these segments in the future as existing or proposed project are fully implemented. These temporary modifications were given a new expiration date of December 31, 1998.

At the request of Viacom International, Inc. the Commission extended (reestablished) the temporary modifications of the numeric standards for dissolved manganese on segments 5 and 9 of the Eagle River for an additional three-year period, from May 1, 1996 until December 31, 1998. The Commission found that the underlying numeric standard for dissolved manganese is not being met in these segments, largely as a result of the effects of past mining in the area, now mostly inactive. The former Eagle Mine and its associated tailings disposal areas have been, and continue to be the subject of remediation actives being implemented under the terms of two consent decrees by Viacom International Inc., the successor to the mine=s former owner. The remediation is still in progress, and while continued water quality improvement is expected, both the extent and the timing of such improvement are unknown at this time.

The Water Quality Control Division is planning to perform water quality measurements in the Eagle River as part of a basin-wide water quality monitoring effort during 1996 and data collected by Viacom, EPA, and the State of Colorado, and others, will be used in a comprehensive review of the classifications and standards for these segments in a rulemaking now anticipated to occur in 1998, at which time these temporary modifications can be reconsidered. Therefore, the Commission has determined that it is appropriate to retain the temporary modifications for dissolved manganese on the affected segments.

In response to the petition of Pittsburg & Midway Coal Mining Company (P&M), the Commission decided to revise the segmentation and classifications of Yampa River 13a, by adding a new segment 13c. P&M had asked the Commission to remove the water supply designation for these waters. P&M argued that there is no water supply use currently in place for this segment, that such use is unlikely in the future, that existing quality does not meet water supply standards, and that water supply standards would result in unreasonable treatment costs for P&M. NWCCOG argued that the legal requirements for downgrading had not been met, and instead recommended that a temporary modification of sulfate standard be adopted.

The Commission decided to retain the water supply classification for this segment for the period June through February annually, while removing this classification and corresponding numerical standards on a seasonal basis, for the period March through May. The evidence presented indicated that P&M should not have a problem meeting the effluent limitations associated with a seasonal sulfate standard, so long as that standard is properly implemented as a 30-day average concentration.

Finally, the Commission notes that its decision to remove the water supply classification on a seasonal basis is influenced by the fact that the critical standard at issue--sulfate--is based on a secondary drinking water standard rather than a health-based primary standard.

The Commission agreed to consider a proposal by the Water Quality Control Division for a proposed designation of outstanding waters for Upper Colorado segment 9 in the scheduled basin-wide rulemaking in 1998.

Climax Molybdenum Company withdrew their proposal to bifurcate Upper Colorado River segment 8. The concerns with manganese and iron standards will be addressed in a request for a rulemaking hearing on this segment next year.

PARTIES TO THE RULEMAKING HEARING 1996

- 1. Northwest Colorado Council of Governments
- 2. Pittsburg & Midway Coal Mining Company
- 3. Viacom International, Inc.
- 4. State of Colorado, Division of Wildlife, Department of Natural Resources
- 5. City of Colorado Springs, Water Resources Department
- 6. Climax Molybdenum
- 7. Northern Colorado Water Conservancy District

33.29 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; JULY, 1997 RULEMAKING

The provisions of sections 25-8-202 and 25-8-401, C.R.S., provide the specific statutory authority for adoption of the attached regulatory amendments. The Commission also adopted, in compliance with section 24-4-103(4) C.R.S., the following statement of basis and purpose.

BASIS AND PURPOSE

The Commission has adopted a revised numbering system for this regulation, as a part of an overall renumbering of all Water Quality Control Commission rules and regulations. The goals of the renumbering are: (1) to achieve a more logical organization and numbering of the regulations, with a system that provides flexibility for future modifications, and (2) to make the Commissions internal numbering system and that of the Colorado Code of Regulations (CCR) consistent. The CCR references for the regulations will also be revised as a result of this hearing.

33.30 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; OCTOBER, 1997 RULEMAKING

The provisions of sections 25-8-202, 25-8-204 and 25-8-401, C.R.S., provide the specific statutory authority for adoption of the attached regulatory amendments. The Commission also adopted, in compliance with section 24-4-103(4) C.R.S., the following statement of basis and purpose.

BASIS AND PURPOSE

A stipulation was presented by the parties to the Commission at the hearing whereby Climax Molybdenum Company withdrew its proposal to adopt seasonal iron and manganese standards for the Williams Fork River. The parties agreed to the adoption of temporary modifications for iron and manganese with an expiration of December 31, 1999. During the term of the temporary modifications, the parties will identify a well as a potential point of compliance and Climax will monitor the iron and manganese levels in the well to obtain baseline water quality data. Assuming that the iron and manganese levels are below the water supply standards, it is expected that the well will be proposed at a subsequent hearing as a point of compliance and that the temporary modifications will be deleted. Any discharge of iron or manganese from the Climax facility during the term of the temporary modification will be regulated based on the 1000 ug/l aquatic life standards.

Parties to the Hearing

- 1. Climax Molybdenum Company
- 2. Northwest Colorado Council of Governments
- 3. Grand County Board of County Commissioners
- 4. U.S. EPA Region VIII

33.31 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; NOVEMBER, 1998 RULEMAKING

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

The Commission has recently approved a new schedule for triennial reviews of water quality classifications and standards for all river basins in Colorado. In this hearing the Commission has extended the expiration dates of temporary modifications [and, for the Animas Basin, the effective dates of underlying standards] without substantive review, so that the next substantive review of the temporary modifications can occur as part of the overall triennial review of water quality standards for the particular watershed. This will avoid the need for multiple individual hearings that would take staff resources away from implementation of the new triennial review schedule.

33.32 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; AUGUST, 1999 RULEMAKING

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

A. Resegmentation

Some renumbering and/or creation of new segments was made in the basin due to information which showed that: a) the original reasons for segmentation no longer applied; b) new water quality data showed that streams should be resegmented based on changes in their water quality; and/or c) certain segments could be grouped together in one segment because they had similar quality and uses. The following changes were made

<u>Upper Colorado segments 3 and 5</u> - combined into one segment 3. Past data showed water quality differences, more recent data shows there is no significant difference in water quality.

<u>Upper Colorado segment 5</u> - now consists of Wolford Mountain Reservoir which was bifurcated from Upper Colorado segment 6a due to its supporting a Recreation Class 1 use.

<u>Yampa River segments 8, 9, 10 and 11</u> - combined into one segment 8. With the change to recreation class 1 on segment 8, all four segments had identical classifications and standards.

B. Wetlands

In March 1993, the Commission amended the Basic Standards and Methodologies for Surface Water, Regulation #31 (5 CCR 1002-31) to include wetlands in the stream classification and standards' system for the state. Due to that action, it became necessary to revise the segment description for all segments of the "all tributary" type to clarify that wetlands are also part of the tributary system for a given mainstem segment. All tributary wetlands now clearly carry the same classifications and standards as the stream to which they are tributary as provided for in 3.1.13(1)(e)(iv).

C. Manganese

The aquatic life manganese criterion was changed in 1997 revisions to the Basic Standards (5 CCR 1002-31) from a single chronic dissolved criterion to acute and chronic hardness-based equations, i.e., Acute=e(0.7693[ln (hardness)]+ 4.4995) and Chronic=e(.5434[ln(hardness)]+ 4.7850). These manganese equations were added as table value standards in 33.6(3). As a result of the adoption of these new TVS, all segments classified for aquatic life use that had a chronic dissolved manganese standard of 1,000 ug/l had the 1,000 standard stricken and replaced with Mn(ac/ch)=TVS.

D. Selenium

The regulation in 33.6 (3) listed the table value standards for selenium as Acute=135 ug/L and Chronic=17ug/L. This was updated to reflect the existing acute and chronic criteria for selenium listed in the Basic Standards as Acute=20 ug/L and Chronic=5 ug/L which was adopted in 1995 by the Commission. This change means that all segments with standards for selenium given as TVS now have these lower acute and chronic standards. Because of this change, on all segments classified for a water supply use, the chronic total recoverable selenium of 10 ug/L was stricken and replaced with Se(ac/ch)=TVS.

E. Outstanding Waters Designations

Several segments or waterbodies were designated outstanding waters (OW) due to their meeting certain criterion pursuant to section 31.8(2)(a). Other segments that already had the OW designation but whose classifications and/or standards were inconsistent with the those prescribed by the Commission for OW waters in other basins in Colorado were corrected. These changes are discussed below for each segment.

(1) The following segments were already designated outstanding waters (OW) but needed classifications (Rec 1, Aq CW 1, WS, and Ag) and table value standards added to the tables to be consistent with Commission actions in other basins.

<u>Upper Colorado segment 1.</u> The Colorado River and tributaries in Rocky Mountain National Park.

<u>Roaring Fork River segment 1.</u> Tributaries to the Roaring Fork River within the Maroon Bells/Snowmass, Hunter/Fryingpan, Holy Cross, Raggeds and Collegiate Peaks Wilderness Areas.

North Platte River segment 1. All tributaries to the North Platte and Encampment Rivers within the Mount Zirkle and Never Summer Wilderness Areas.

<u>Yampa River segment 1.</u> All tributaries to the Yampa River which are within the Mount Zirkel Wilderness Area.

(2) Segments that were based on their waters being in wilderness areas but were not designated outstanding waters. All these waters met the following criteria for OW designation: (1) their existing water quality is better than the quality criteria specified in the 31.8(2); (2) they are designated wilderness areas; and (3) they have ecological significance (all the wilderness areas had streams containing Colorado River cutthroat trout, a state species of special concern, and Holy Cross and Mt. Zirkel W.A.'s had populations of Boreal toads, a state endangered species).

<u>Upper Colorado segment 9</u> - All tributaries to the Colorado and Fraser Rivers, within the Never Summer, Indian Peaks and Flat Tops Wilderness Areas.

Blue River segment 16 - All tributaries to the Blue River within the Gore Range - Eagles Nest Wilderness Area.

<u>Eagle River segment 1</u> - All tributaries to the Eagle River system within the Gore Range - Eagles Nest Wilderness Area and Holy Cross Wilderness Area.

North Platte River segment 2 - deleted reference to waters in Never Summer W.A. which were moved into North Platte segment 1

With respect to Eagle River segment 1, the Commission is aware of the fact that the Homestake Water Project of the Cities of Aurora and Colorado Springs predated the Holy Cross Wilderness designation and that the Project obtained a Congressional exemption which provided that the wilderness designation would not adversely impact the exercise of the Project's water rights. Act of December 19, 1980, Public Law No. 96-50, Section 102(a)(5), 94 Stat. 3265, 3266. Having taken into account the Congressional exemption, the location of the Project and its associated water rights, the potential impact of an OW designation on future project activities, the basis for the Commission's adoption of an OW designation for the segment, and the language of CRS 24-4-104, the Commission has decided to grant a project specific exemption form the OW designation to the Homestake Project as specified in footnote 1 to Eagle River segment 1. For purposes of the Project, the affected stream segment will remain "reviewable water." This project specific exemption should ensure the future protection of water quality within the segment, while recognizing legitimate pre-existing rights. The project exemption may be revisited once the project has finalized its development plans for the remaining project water rights in the area.

(3) Segments that needed descriptions of wilderness areas added. This addresses wilderness areas that were designated after the rulemaking hearing that originally established the segment. In this hearing, the only segments affected were Upper Colorado segment 9 and Yampa segment 1 which had the Flat Tops Wilderness Area added to their descriptions and Roaring Fork segment 1 which had the Holy Cross, Collegiate Peaks and Raggeds Wilderness Areas added to its description.

F. Temporary Modifications

There were several segments which had temporary modifications that were reviewed and decisions made as to delete them or to extend them, either as is or with modification of the numeric limits.

<u>Upper Colorado segment 6c - Mainstem of un-named tributary to Willow Creek from the Willow Creek Reservoir Rd to the confluence Willow Creek.</u>

This segment had 5-year temporary modification for un-ionized ammonia that will expire in 12/30/2000, but under the terms of a stipulation entered into at the 1995 rulemaking the temporary modification is "subject to review at approximately a three-year interval into the modification". The Commission determined that after review of information submitted by the Division and Three Lakes Water and Sanitation District that the present expiration date provided sufficient time for Three Lakes to develop and implement its plan for meeting the unionized ammonia standard in this segment.

Upper Colorado segment 8 - Mainstem of the Williams Fork River.

The Commission reviewed the need for the existing temporary modifications to the manganese and iron water supply standards and determined that their removal would not pose a significant hardship to Climax's ability to meet its permit limits and manage the water in its facility provided that a point of compliance is adopted. As noted in the Basis and Purpose for the October 1997 rulemaking, Climax, with the participation of Grand County and the Northwest Colorado Council of Governments, identified a well as a potential point of compliance. Climax monitored the iron and manganese levels in a well at the Aspen Canyon Ranch. The data from March 1998 through February 1999 showed that the existing water quality was well below the water supply standards for iron and manganese. In view of the above, the temporary modifications for iron and manganese are deleted and a point of compliance at the Aspen Canyon Ranch well is adopted.

Blue River segment 2 - Mainstem of the Blue River from the confluence with French Gulch to a point one mile above the confluence with Swan River.

The temporary modifications were reviewed and revised to reflect data collected from the segment in 1996-98. It was determined that an expiration date of 12/31/2002 would provide sufficient time for the French Gulch Opportunity Group (FROG) to determine the appropriate steps to address the source of the high metals in this segment which derive from French Gulch (Blue River segment 11) and complete a use attainability analysis on segment 2 which should determine the proper classifications and standards for the segment.

Blue River segment 6 - Snake River

The Commission has adopted underlying TVS with temporary modifications that reflect the existing ambient conditions to expire 12/31/02, with the understanding that at the future triennial reviews, additional changes may be necessary. Based on information in the record, the Commission suspects that ambient standards may be appropriate in the upper basin. The local stakeholders and the NWCCOG, with assistance by the WQCD, have agreed to gather data over the next few years to determine the sources of metals in the watershed and the remediation potential for those sources. This information will be used to determine if ambient standards and/or resegmentation is appropriate. In addition, a TMDL is planned for segment 7 (Peru Creek) and the lower portion of segment 6. This will help determine what degree of cleanup is possible for the lower Snake River.

Blue River segment 7 - Peru Creek.

The temporary modifications were reviewed and revised to reflect data collected from the segment in 1996-98 and they and the underlying standards were adjusted to reflect dissolved metals standards rather than the total recoverable that have been in place since 1980.

<u>Eagle River segment 5 - Mainstem of the Eagle River from the compressor house bridge at</u> Belden to the confluence with Gore Creek.

Several ambient standards for metals and a temporary modification for manganese were in place on segment 5 since 1980. The ambient standards and temporary modification were based on limited data and the metal standards were based on the total recoverable form which the Commission had specified for standards prior to 1987. In 1987, Colorado's Basic Standards prescribed dissolved metals as the standard of choice for all metals standards that are based on toxicity to aquatic life. Also, since the adoption of the standards in 1980, the Eagle Mine and mill area has been declared a Superfund site with remediation begun in 1988. Viacom International, Inc., the responsible party for the remediation, has collected an extensive record of water quality data throughout segment 5 that documents the improvements in quality to date.

The purpose of adopting new underlying standards and temporary modifications is to reflect the existing water quality, establish underlying standards (goals) based on ARARs established for the Eagle Superfund site, and make the standards consistent with the dissolve' criteria established in the 1987 Basic Standards. The underlying numeric standards for cadmium and zinc of 1.1 ug/L and 106 ug/L, respectively, are the ARAR's established by the U. S. Environmental Protection Agency. The underlying manganese standard of 50 ug/L was the existing standard which was adopted in 1980 to protect the water supply classification. The temporary modifications are adopted for two seasons, May 1 through November 30 and December 1 through April 30, because of the extreme seasonal variation shown by the data. The temporary modifications for chronic cadmium, zinc and manganese are based on the 85th percentile values of the water quality data collected in segment 5 from 1996 through 1998.

It is anticipated that at the next triennial rulemaking for the Upper Colorado River Basin the temporary modifications will be reviewed and adjusted, if necessary, to reflect the most recent instream quality of segment 5. At the time of completion of the remediation (estimated to be 10 years) or achievement of an agreed upon acceptable level of recovery of the aquatic biota, should that happen sooner, the water quality data for the segment should be reviewed to ascertain what the levels of instream metals are at that time. Based on those findings, the Commission may determine that ambient standards are appropriate for segment 5 for any metals still exceeding the underlying standards.

The previous use-protected designation for this segment has been removed, since there are now only two parameters (cadmium and zinc) which exceed table values for all or part of the year.

<u>Eagle River Segment 7 - Mainstem of Cross Creek from the source to the confluence with the Eagle River.</u>

The lower reach of Cross Creek, like segment 5 of the Eagle River, is part of the Eagle Mine Superfund site. It is still undergoing remediation and at one time the Creek was the receiving stream for the treated wastes from the Eagle Mine. The standards in place were, as in segment 5, based on outdated data, information and criteria in place in the early 80's. As a result of this hearing, temporary modifications to underlying table value standards were adopted for zinc and manganese to reflect the current instream water quality based on samples collected from 1996 through 1998. Because of the seasonality shown by the data, the temporary modifications were adopted for two periods, May 1 through October 31 for manganese (165 ug/L) and November 1 through April 30 for zinc (170 ug/L) and manganese (840 ug/L).

<u>Eagle River segment 9</u> - The existing temporary modification for manganese was reviewed and renewed for three years. Review of the most recent data from this segment indicated that there had not been a significant lowering of the manganese from the existing temporary modification of 85 ug/l. Since the manganese levels in this segment may be related to the remediation underway at the Eagle Mine Superfund site modification it was felt that the temporary modification date should track those established for Eagle River segment 5.

G. Recreation Classifications/Fecal Coliform Standards

In a continuation of the Commission's efforts to comply with the requirements contained in the federal Clean Water Act that all waters of the nation should be suitable for recreation in and on the water (known as the "swimmable" goal), the Commission reviewed all Recreation Class 2 segments. In Colorado, the "swimmable" goal translates into a Recreation Class 1, with the 200/100 ml fecal coliform standard (assigned wherever swimming, rafting, kayaking, etc. are in place or have the potential to occur). In some river basins, the Commission has adopted a Recreation Class 2 classification, with 200/100 ml standard, where only secondary contact recreation is practiced, and the existing quality supports a Class 1 Recreation use and little or no impact to dischargers will result. However, the current Basic Standards and Methodologies for Surface Water do not address this option. To maintain the existing Recreation Class 2, with the 2000/100 ml standard on a segment, it must be shown that there is minimal chance that a Recreation Class 1 activity could exist (e.g. intermittent or small streams that have insufficient depth to support any type of Recreation Class 1 use or very restricted access).

Based on the information received that showed Recreation Class 1 uses are in place, the Commission upgraded the following Recreation Class 2 segments to Class 1 with a 200/100 ml standard:

Upper Colorado segment 10.

Blue River segments 1, 2, and 14.

Eagle River segment 4, 5, and 8.

Yampa River segments 2a (was already Class 1 but had 2,000/100ml standard) and 8. Upper Colorado segment 9, Blue River segment 16, and Eagle River segment 1 were also upgraded to Recreation Class 1, but because of their being designated outstanding waters.

The following segments retained their Recreation Class 2 and 2,000 fecal coliform standard based on the evidence submitted in this rulemaking hearing, including the segment-specific information in the Division's Rationale and testimony from the parties. No evidence was submitted indicating that these segments have a reasonable potential to support Recreation Class 1 uses.

Upper Colorado segments 6a, 6b, 6c and 7c. Blue River segments 5, 7, 8, 11, 12, 13 and 20. Eagle River segment 11. North Platte River segments 2, 5, 6 and 7. Roaring Fork segments 4, and 10. Yampa River segments 4, 5, 7, 8, 12, 13d and 19.

The recreation classifications and standards for each of these segments will be reviewed by the Commission in each future triennial review. The Commission encourages all interested persons to submit any available information regarding the potential uses of these segments. In addition, the Commission notes that the system for adopting recreation use classifications and standards will be reviewed in the upcoming triennial review of the Basic Standards and Methodologies for Surface Water.

H. Full Standards Not Applied to Aquatic Life Segments

The Commission reviewed information regarding Aquatic Life Class 2 segments where the full set of inorganic aquatic life protection standards have not been applied. EPA is concerned that this be done on those segments that are receiving waters for wastewater treatment plant discharges. Generally, these are dry segments with only rudimentary aquatic life. The Commission=s policy has been that rather than adopt the full set of inorganic standards for these segments, standards for dissolved oxygen, pH and fecal coliform provide sufficient protection. The segments which were reviewed in this hearing and for which sufficient evidence was received for them to retain their present classifications and standards are:

Upper Colorado segment 6b Blue River segment 20. Eagle River segment 11. North Platte River segment 7. Yampa River segments 4b and 12.

Yampa River segment 4b (Little White Snake River) had, in a 1987 hearing, been determined to not be suitable for an aquatic life class 1 or in need of the protection of aquatic life inorganic standards. The basis and purpose of this decision is detailed in 33.19 of this regulation. In this hearing, the Commission did review the numeric standards for metals on this segment which are based on water supply and agriculture criterion. These standards were revised as appropriate to reflect any amendments to the Basic Standards that occurred since the 1987 hearing.

One segment, Blue River segment 5 (Soda Creek), was found to support a sizeable population of brook trout and was given an Aquatic Life Cold 1 classification with a full set of numeric standards. Summit County's Snake River WWTF discharges at the mouth of this stream where it enters Dillon Reservoir and it is unlikely that they will be affected by the new standards. A site-specific pH standard of 6.0, which was established in 1990, was retained.

I. Ambient Quality-Based Standards

There are several segments in the Upper Colorado and North Platte River Basins that contained ambient standards. Ambient standards are adopted where natural or irreversible man-induced conditions result in water quality levels higher than table value standards. EPA had requested the Commission review the information that are the basis for these standards as well as any new information that would indicate whether they are still appropriate, need to be modified or should be dropped. The Division reviewed the reason for the ambient standards and provided testimony that justified ambient standards being retained on the following segments:

Blue River segments 11, 12, and 14.

Ambient standards were removed from the following segments due to new data and/or changes to the basic standards which indicated ambient standards were no longer appropriate:

Blue River segments 7, 9, and 13. Eagle River segments 5 and 7.

J. Water + Fish Standards

One other issue that EPA has requested be addressed in the hearing was the justification for not having the water + fish organic basic standards applied to Aquatic Life Class 2 streams. Prior to the hearing, the Division contacted DOW fisheries personnel and other locals with extensive knowledge of sport fishing in the Upper Colorado and North Platte basins and requested information that would pinpoint any streams or lakes in Aquatic Life Class 2 segments that have fish that are presently being taken for human consumption or have fisheries that would indicate the potential for human consumption. Information received indicated only two additional waterbodies that had the potential for consumption of fish. Blue River segment 5, was reclassified as Aquatic Life Class 1 and thus received the full protection of numeric and water + fish organic basic standards. The "water + fish organics" modifier was added to North Platte segment 7.

K. Other Site-Specific Revisions

Eagle River Ammonia Standards

Corrections were made to the formatting of the un-ionized ammonia standards for Eagle River segments 1 through 10. These corrections which do not alter the adopted standards on the segments merely correct typographical errors that occurred when routine revisions were made to the Upper Colorado basin standards in 1998.

Roaring Fork Segment 3a

At the request of the Spring Valley Sanitation District, the Commission reviewed the classifications and standards for Roaring Fork segment 3 and determined that reclassification of a portion of this segment is appropriate. The Commission has established a new segment 3a, consisting of the mainstem of Red Canyon and all tributaries, wetlands, lakes and reservoirs from the source to the confluence with the Roaring Fork River, except for Landis Creek from its source to the Hopkins Ditch Diversion. Based upon a use attainability analysis prepared by the Spring Valley District, the Commission has adopted an aquatic life cold water class 2 classification for this new segment. There was considerable debate in the testimony presented in this hearing as to whether this segment should be aquatic life class 1 or class 2. The dewatering effects of the Hopkins Ditch Diversion are a major consideration in the Commission's decision that class 2 is appropriate. The Commission does not intend this site-specific change to be viewed as a precedent for headwaters streams generally.

The usual set of numerical standards has been applied to this new segment, except for a 0.1 mg/l chronic unionized ammonia standard, which is based upon a site-specific recalculation procedure analysis submitted by Spring Valley. The evidence indicates that this ammonia standard should be protective of the aquatic life present in this segment.

In addition, in accordance with the stipulation between the Division and interested parties, the Commission adopted a recreation class 2 classification with a 200 per 100 ml fecal coliform standard for this new segment.

Roaring Fork Segment 4

The aquatic life classification for this segment has been changed from cold water class 2 to cold water class 1, based on biological data that supports this change. In addition, the testimony indicated that habitat issues are being addressed to improve channel stability. The Commission has retained the use-protected designation for this segment based on evidence that it is subject to significant point source discharges and the quality currently is maintained better than standards only because the treatment achieved by the existing discharger exceeds requirements of federal and state law and might not be maintained at that level in the future.

PARTIES/MAILING LIST TO THE RULEMAKING HEARING

- 1. Viacom International
- 2. Climax Molybdenum Company
- 3. Spring Valley Sanitation District
- 4. Spring Valley Development, Inc.
- Colorado Division of Wildlife
- 6. Northwest Colorado Council of Governments
- 7. The Northern Colorado Water Conservancy District
- 8. The Cities of Aurora and Colorado Springs through the Homestake Project
- 9. The Three Lakes Water and Sanitation District
- 10. Colorado River Water Conservation District
- 11. Trout Unlimited
- 12. United States Department of the Interior, Fish and Wildlife Service
- 13. United States Environmental Protection Agency

33.33 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; MAY, 2001 RULEMAKING

The provisions of sections 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402, C.R.S., provide the specific statutory authority for adoption of the attached regulatory amendments. The Commission also adopted, in compliance with section 24-4-103(4), C.R.S., the following statement of basis and purpose.

BASIS AND PURPOSE

As a result of a July, 2000 rulemaking hearing the Commission adopted numerous revisions to the Basic Standards and Methodologies for Surface Water, Regulation #31 (5 CCR 1002-31). These revisions included revisions to the table values in Tables II and III, which are intended to apply to site-specific waters in the various river basins wherever the Commission has adopted "table value standards". In this current rulemaking, the Commission adopted revisions to section 33.6(3) of this regulation to conform with the revisions to the Basic Standards.

33.34 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE, DECEMBER, 2001 RULEMAKING

The provisions of sections 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402, C.R.S., provide the specific statutory authority for adoption of the attached regulatory amendments. The Commission also adopted, in compliance with section 24-4-103(4), C.R.S., the following statement of basis and purpose.

BASIS AND PURPOSE

In the spring of 2001, the Commission established a new schedule for major rulemaking hearings for each of its water quality classifications and standards regulations, as part of the triennial review process. As part of the transition to this new schedule, in order to facilitate an efficient and coordinated review of all water quality standards issues in this basin, in this hearing the Commission decided to extend the existing temporary modifications of water quality standards previously adopted for segments in this basin, so that such temporary modifications will not expire prior to the next scheduled major rulemaking hearing for this basin.

33.35 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE, MARCH, 2002 RULEMAKING

The provisions of sections 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402, C.R.S., provide the specific statutory authority for adoption of the attached regulatory amendments. The Commission also adopted, in compliance with section 24-4-103(4), C.R.S., the following statement of basis and purpose.

BASIS AND PURPOSE

In this hearing the Commission adopted a proposal by The Pittsburg and Midway Coal Mining Co. to modify the water supply standards for Yampa River segment 13c to conform with the revisions to the Basic Standards and Methodologies for Surface Water (Regulation #31) at 31.11(6) adopted in 2000.

P&M requested modification to the water supply standards of iron, sulfate and manganese, for Yampa River segment 13c. P&M has a permit to discharge to this segment and waiting to incorporate these changes until the next basin-wide review would result in a hardship.

By this action, Table 33.6(2) Abbreviations is modified to include the "WS(dis)" notation and the explanation from 31.11(6). In addition, the notation for Yampa River segment 13c for iron, sulfate and manganese is changed from numerical values to "WS(dis)".

PARTIES TO THE RULEMAKING HEARING

1. The Pittsburg and Midway Coal Mining Co.

33.36 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; JULY, 2003 RULEMAKING

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

A. Resegmentation

Some renumbering and/or creation of new segments was made in the basin due to information which showed that: a) the original reasons for segmentation no longer applied; b) new water quality data showed that streams should be resegmented based on changes in their water quality; and/or c) certain segments could be grouped together in one segment because they had similar quality and uses. The following changes were made:

Upper Colorado River	expanded to include all lakes and reservoirs tributary to the Colorado
segment 5	River from Rocky Mountain National Park to the Roaring Fork River
	(previously Wolford Reservoir)
Upper Colorado River	resegmented to remove Muddy Creek, Rock Creek, Deep Creek,
segment 7b	Sheephorn Creek, Sweetwater Creek and the Piney River from Upper
	Colorado River segment 7a (new)
Blue River segments 2a and	resegmented to divide existing segment 2 at a point one half mile
2b	below Summit County Road 3
North Platte River segment	resegmented to divide existing segment 5 at the Colorado State Forest
5a and 5b	boundary
Yampa River segment 2b	expanded to include all lakes and reservoirs tributary to the Yampa
	River and Elkhead Creek (previously Stagecoach Reservoir)
Yampa River segment 13d	Sage Creek resegmented into Yampa River segment 13e
Yampa River segment 13e	Sage Creek resegmented from Yampa River segment 13d, Grassy
_	Creek resegmented from Yampa River segment 12

B. Recreation Classifications/Fecal Coliform and E. Coli Standards

The biological standards were updated to include the dual standards for E. coli and fecal coliform, which were adopted by the Commission in the 2000 revisions to the Basic Standards. As stated in the statement of basis and purpose for the Basic Standards revisions, the Commission intends that dischargers will have the option of either parameter being used in establishing effluent limitations in discharge permits. In making section 303(d) listing decisions, in the event of a conflict between fecal coliform and E. coli data, the E. coli data will govern. The Commission believes that these provisions will help ease the transition from fecal coliform to E. coli standards.

In a continuation of the Commission's efforts to comply with the requirements contained in the federal Clean Water Act that all waters of the nation should be suitable for recreation in and on the water (known as the "swimmable" goal), the Commission reviewed all Recreation Class 2 segments. In Colorado, the "swimmable" goal translates into Recreation Class 1a, with the 200/100 ml fecal coliform and 126/100 ml E. Coli standard, and Class 1b with the 325/100 ml fecal coliform and 205/100 ml E. coli standard. Class 1a indicates waters where primary contact uses have been documented or are presumed to be present. Class 1b indicates waters where no use attainability analysis has been performed demonstrating that a recreation class 2 classification is appropriate, but where a reasonable level of inquiry has failed to identify any existing class 1 uses. To maintain the existing Recreation Class 2 with the 2000/100 ml fecal coliform and 630/100 ml E. coli standard on a segment, it must be shown that there is not reasonable potential for Recreation Class 1 uses to occur within the next 20-year period (e.g. ephemeral or small streams that have insufficient depth to support any type of Recreation Class 1 use or very restricted access).

A recreation class 1a classification of a segment is not intended to imply that the owner or operator of property surrounding and waterbody in a segment would allow access for primary contact recreation. The application of recreation classifications to state waters pursuant to these provisions does not create any rights of access on or across private property for the purposes of recreation in or on such waters. A recreation class 1a classification is intended to only affect the use classification and water quality standards of a segment, and does not imply public or recreational access to waters with restricted access within a segment.

For segments changing to recreation Class 1a because no information was available about actual recreational uses, the last paragraph of section 31.6(2)(b) will apply to future changes to the recreation classification where a proper showing is made through a use attainability analysis that a recreation Class 2 classification is appropriate, without application of the other downgrading criteria in this section. Moreover, the Commission is relying in part on the testimony from EPA that completion of a use attainability analysis showing that a lower recreation classification is appropriate satisfies applicable downgrading criteria. Based on these factors, the Commission intends that in a future rulemaking hearing, the test for adopting a recreation Class 2 classification would be the same as if it had been considered in this hearing

The following segments with existing Recreation Class 1 classifications were changed to Recreation Class 1a and a 126/100 ml E. coli standard was added:

Upper Colorado River segments 1, 2, 3a, 4, 5, 8, 9 and 10 Blue River segments 1, 2a, 2b, 3, 6, 9, 10, 14, 15, 16, 17 and 18 Eagle River segments 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 and 12 Roaring Fork River segments 1, 2, 3, 5, 6, 7, 8 and 9 North Platte River segments 1, 3 and 4 Upper Yampa River segments 1, 2a, 2b, 3, 6, 8, 13a, 13b, 13c, 14 and 18

Based on the information received that showed Recreation Class 1a uses are in place or are presumed to be present in at least a portion of the segment, the Commission changed the following segments from Recreation Class 2 to Recreation Class 1a with a 200/100 ml fecal coliform and 126/100 ml E. coli standard:

Upper Colorado segment 7b (Deep and Sheephorn Creeks by default)
Blue River segments 5 and 8 (Chihuahua Creek by default)
Roaring Fork River segments 4 and 10
North Platte River segment 5a
Upper Yampa River segments 13d and 19

Based on evidence presented, the Commission has changed the following from Recreation Class 2 to Recreation Class 1b with a 325/100 ml fecal coliform and 205/100 ml E. coli standard:

Blue River segments 11, 12 and 13 Eagle River segment 11 North Platte River segment 2 Upper Yampa River segments 5 and 7

The following segments retained their Recreation Class 2 classification with 2,000/100mL fecal coliform and 630/100 ml E. coli standard after sufficient evidence was received that a Recreation Class 1a or 1b use was unattainable.

Upper Colorado River segments 6a, 6b, 6c and 7a Blue River segments 7, 19 and 20 North Platte River segments 5b, 6 and 7 Upper Yampa River segments 4, 12 and 13e

Segment 3a of the Roaring Fork River retained a Recreation Class 2 classification after sufficient evidence was received that a Recreation Class 1a or 1b use was unattainable. However, a 200 fecal coliform was retained, and a 126/100 ml E. coli standard was added as per a stipulated agreement which was reached between the Division and Spring Valley Sanitation District.

C. Aquatic Life Segments without Full Standards

The Commission reviewed information regarding Aquatic Life Class 2 segments where the full set of inorganic aquatic life protection standards have not been applied. Generally, these are dry segments with only rudimentary aquatic life. The Commission's policy has been that rather than adopt the full set of inorganic standards for these segments, standards for dissolved oxygen, pH and fecal coliform provide sufficient protection.

Segments where investigation showed that fish populations were present, or where fishery habitat improvement projects were completed or underway, were upgraded with the addition of the full suite of inorganic standards. These segments are:

Blue River segment 19 Yampa River segment 13e (Grassy Creek)

There are several segments in the Upper Colorado basin which had previously been assigned Aquatic Life Use classifications but lacked a complete suite of relevant standards. Aquatic life based standards were added to the following segments:

Eagle River segment 5 Cr+3

D. Revised Aquatic Life Use Classifications

The Commission reviewed information regarding existing aquatic communities. The following segment=s aquatic life classifications were upgraded from aquatic life class 2 to aquatic life class 1 based on information presented that showed diverse aquatic communities in these segments.

Blue River segments 13 and 19

E. <u>Ambient Quality-Based Standards</u>

There are several segments in the Upper Colorado River Basin that are assigned ambient standards. Ambient standards are adopted where natural or irreversible man-induced conditions result in water quality levels higher than table value standards. EPA had requested that the Commission review the information that is the basis for these standards as well as any new information that would indicate whether they are still appropriate, need to be modified, or should be dropped.

Ambient standards were removed from the following segments due to new data and/or changes to the basic standards which indicated ambient standards were no longer appropriate:

Blue River segment 12 Cd(ch), Mn(ch)
Blue River segment 13 CN(ch)
Blue River segment 14 CN(ch)
Eagle River segment 5 Cd(ch)

F. Temporary Modifications

There were several segments where temporary modifications that reflect current ambient conditions were adopted or retained. Temporary modifications were generally set to expire on 2/28/09 to coincide with the next triennial review except as otherwise noted. The segments and the constituents are:

Blue River segment 6	Cd(ch), Cu(ch), Zn(ch)	
Blue River segment 7	Cd(ch), Cu(ch), Pb(ch), Zn(ch)	
Blue River segment 12	Zn(ch), Illinois Gulch	
Eagle River segment 5	Cd(ch), Cu(ch), Zn(ch)	2/28/06
Eagle River segment 7	Zn(ch)	2/28/06
Yampa River segment 13d	Se(ch)	

The Temporary Modification of the Yampa River segment 13d selenium standard is assigned on the basis of uncertainty as per the provisions of 31.7(3)(a)(iii) of the Basic Standards and Methodologies for Surface Waters, Regulation No. 31.

Temporary Modifications were also deleted from several segments, either because the segment is in attainment of new standards adopted by the Commission or because of improvements in water quality. These segments and constituents include:

Upper Colorado River segment 6c	NH₃(ac/ch)
Blue River segment 2	Cd(ch), Zn(ch)
Blue River segment 6	Fe(ch), Mn(ch)
Blue River segment 11	Cd(ch), Pb(ch), Zn(ch)
Eagle River segment 5	Cd(ch)
Eagle River segment 7	Mn(ch)
Eagle River segment 9	Mn(ch)

G. Modification of Water Supply Standards

Water supply standards were modified to conform to the changes made by the Commission in the 2000 revisions to the Basic Standards (see Regulation No. 31 at 31.11(6)). The Commission modified the water supply standards for iron, manganese, and sulfate that are based on secondary drinking water standards (based on esthetics as opposed to human-health risks). The numeric values in the tables were changed to Fe(ch) = WS (dis), Mn(ch) = WS (dis), and SO4 = WS. These abbreviations mean that for all surface waters with an actual water supply use, the less restrictive of the following two options shall apply as numerical standards, as discussed in the Basic Standards and Methodologies at 31.11(6): either (i) existing quality as of January 1 2000; or (ii) Iron = 300 (g/L (dissolved); Manganese = 50 (g/L (dissolved); Sulfate = 250 mg/L (dissolved). For all surface waters with a "Water Supply" classification that are not in actual use as a water supply, no water supply standards are applied for iron, manganese or sulfate, unless the Commission determined as the result of a site-specific rulemaking hearing that such standards are appropriate.

There are several segments in the North Platte River basin which had previously classified for Water Supply Use, but which had not been assigned a complete suite of water supply based numeric standards. Water Supply standards for arsenic, chloride and sulfate, in addition to the water supply standards discussed above, were added to the following segments:

North Platte River segment 4 North Platte River segment 5

H. Agriculture Standards

Numeric Standards to protect Agricultural Uses were adopted for the following segments:

Upper Colorado River segment 6c Eagle River segment 11 Yampa River segment 12

I. Other Site-Specific Revisions

The Commission corrected several typographical and spelling errors, and clarified segment descriptions.

In addition, the following site-specific issues were addressed:

<u>Blue River segments 2a, 2b and 11:</u> Surface water quality in these segments will be influenced by ongoing CERCLA cleanup at the Wellington-Oro mine. The mine discharges to French Gulch (segment 11) above its confluence with the Blue River. The Commission has promulgated site-specific cadmium and zinc standards for segments 2a and 2b, and segment 11. The standards are based upon zinc and cadmium toxicity to the different life stages of brown trout that are expected to occur in the Blue River below French Gulch.

Prior to the 2003 Hearing, segment 2 was defined as that portion of the Blue River from the confluence with the Swan River. Habitat in the upper portion of the segment has been modified as a result of historic instream mining and construction of a kayak course within the Town of Breckenridge. There is an absence of spawning and rearing habitat for aquatic species. Below the Town fishery habitat improves markedly. Additional habitat improvement projects are under consideration. The habitat variability within this reach of the Blue River forms the basis for resegmentation into the new segments 2a and 2b. Because of the habitat differences in evidence, different life stages would be expected to be present in each. Consequently, different toxicity based cadmium and zinc standards have promulgated. These criteria will form the basis for treatment targets for the remediation effort.

The selected treatment alternative for the Wellington-Oro involves chemical precipitation accomplished via lime addition. The treatment plant discharge will consequently increase instream hardness over current ambient conditions. It is anticipated that some elevation of hardness levels will occur in the Blue River mainstem even after mixing. Increased hardness levels will ameliorate cadmium and zinc toxicity. Therefore, the zinc standards for the Blue River, and the proposed cadmium standard for the lower segment 2b, are expressed in terms of this hardness based relationship. The cadmium standard adopted for Blue River segment 2a is a technology-based criterion, however, the 4.0 ug/l standard only marginally exceeds the corresponding Table Value Standard.

Significant water quality improvement is anticipated in French Gulch itself with the initiation of treatment plant operations. However, the Commission has determined that attainment of Table Value Standards, or alternate site-specific standards intended to allow establishment of a viable aquatic population is not possible within the portion of French Gulch below the Wellington-Oro discharge. The Commission has determined that additional water quality improvement beyond that accomplished through collection and treatment of mine water at the Wellington-Oro site is infeasible. Therefore a finding has been made that post-remediation cadmium, lead and zinc levels will likely exceed Table Value Standards as a result of irreversible anthropogenic causes. On this basis, the Commission has adopted ambient based standards for these parameters which are defined as "existing quality".

<u>Blue River segment 8:</u> - The Division and NWCCOG proposed to move Jones Gulch and Camp Creek from segment 6 and place them in this segment. Keystone Resort was opposed to this resegmentation. Prior to the hearing these proposals were withdrawn, as the result of a stipulated agreement between the Division and the other parties. Pursuant to this agreement, Keystone will complete an aquatic life use attainability analysis for these streams and no ski area development will occur in the Jones Gulch watershed before the issue of appropriate standards, classifications and designations is brought before the Commission for consideration.

Eagle River segment 11: The Commission opted to assign the Aquatic Life Use-based selenium standard to Eagle River segment 11. The Commission assigned Agriculture Use-based numeric standards for other parameters. The Aquatic Life based selenium standard was assigned because the ambient selenium concentrations in Eagle River segment 11 (4.54 ug/l) approach the Aquatic Life Use-based numeric Table Value Standard of 4.6 ug/l (chronic). Section 303(c)(2)(B) of the federal Clean Water Act requires:

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses. Such criteria shall be specific numeric criteria for such toxic pollutants."

Yampa River segment 13b: The Commission adopted an ambient based iron standard of 1600 ug/L for Foidel and Middle Creeks in Segment 13b of the Yampa River. This ambient standard was adopted pursuant to Regulation 31.7(1)(b)(ii) and evidence presented by Twentymile Coal Company that the high levels of iron in those creeks are due to natural causes.

Yampa River segment 13d: The Commission changed the Aquatic Life Classification of Segment 13d from Warm 1 to Warm 2 and the Recreation Classification from Recreation 2 to 1a. It adopted a use protected designation, as well as the full set of water quality standards normally associated with Class 2 streams. The Aquatic Life Warm 2 classification was based on application of Regulation 31.13(1)(c) and evidence provided by Seneca Coal Company and the Division that showed that Dry Creek is not capable of sustaining a wide variety of biota, including sensitive species due to physical habitat and flows. The Commission adopted a temporary modification for selenium of 60 Fg/L based on uncertainty. (Reg. 31.7(3)(a)(iii).)

<u>Yampa River segment 13e:</u> The Commission moved Sage Creek from Segment 13d and Grassy Creek from Segment 12 into a new Segment 13e classified as Aquatic Life Warm 2, Recreation Class 2, Agriculture and Water Supply. It adopted a use protected designation as well as the full set of water quality standards normally associated with Class 2 streams. The Aquatic Life Warm 2 classification was based on application of Regulation 31.13(1)(c) and evidence provided by Seneca Coal Company and the Division that showed that Sage Creek and Grassy Creek are not capable of sustaining a wide variety of biota, including sensitive species due to physical habitat and water flows.

PARTIES/MAILING LIST STATUS FOR JULY, 2003 RULEMAKING HEARING

- 1. Colorado River Water Conservation District
- 2. Colorado Division of Wildlife
- 3. Jackson County Water Conservancy District
- 4. Keystone Resort
- 5. Northern Colorado Water Conservancy District
- 6. Northwest Colorado Council of Governments
- 7. Seneca Coal Company
- 8. Spring Valley Sanitation District
- 9. Twenty Mile Coal Company
- 10. U.S. EPA Region VIII
- 11. Viacom International, Inc.
- 12. Xcel Energy
- 13. Eagle Park Reservoir Company
- 14. Basalt Sanitation District
- 15. Climax Molybdenum
- 16. Eagle River Water and Sanitation District
- 17. Copper Mountain Resort

33.37 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE (Rulemaking Hearing 6/13/2005, Effective date of 7/31/2005)

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE:

Segments 13d and e of the Yampa River are classified Aquatic Life Warm Water 2. Metals standards apply to these segments, including the following standards that apply to trout: Cd (ac) = TVS (tr) and Ag (ch) = TVS (tr). It is not appropriate to apply trout standards to a warm water stream. These errors were apparently made in the 1999 basin rulemaking hearing when Dry Creek and Sage Creek were removed from Segment 12 (an all tributary segment) and included in new Segment 13d, which was classified as Aquatic Life Warm Water 1. Although the hearing notice for the 1999 proposal did not include the erroneous trout standards the final action did. These errors were duplicated in the 2003 basin rulemaking when the new Segment 13e (Sage Creek and Grassy Creek) was added. Accordingly, the Commission deleted reference to trout in the Segment 13d and e standards and adopted the following: Cd (ac/ch) = TVS and Ag (ac/ch) = TVS.

33.38 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 12, 2005 RULEMAKING EFFECTIVE DATE OF MARCH 2, 2006

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

In the process of digitally mapping the segments in the Upper Colorado Basin, the Division discovered errors and inconsistencies between segment descriptions. To resolve these issues the Commission adopted changes in the following segment descriptions:

Upper Colorado Segments 6a and 9 Blue River Segments 1, 8, 14 and 18 Yampa River Segment 2a

The Commission also deleted Yampa River segments 15, 16 and 17 because the segments, and assigned designations, uses and numeric standards are described in the Classifications and Numeric Standards for Lower Colorado River Basin, Regulation No. 37. This action removes any confusion which had been created as the result of inconsistent segment descriptions.

The Commission adopted a new segment, Yampa River segment 20, to describe the designations, uses and numeric standards assigned to waters tributary to the Yampa River which are located above the confluence with Elkhead Creek and lie within National Forest boundaries. These waters were not previously included in any described segments.

33.39 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 12, 2005 RULEMAKING EFFECTIVE MARCH 2, 2006

The provisions of sections 25-8-202; 25-8-204; 25-8-402, C.R.S., provide the specific statutory authority for adoption. The Commission also adopted, in compliance with section 24-4-103(4) C.R.S., the following statement of basis and purpose.

BASIS AND PURPOSE

The changes described below were adopted by the Commission from a joint proposal by the Hazardous Materials and Waste Management Division (HMWMD) and the U. S. Environmental Protection Agency (EPA). The joint proposal addressed segments 5 (mainstem of the Eagle River from the compressor house bridge at Belden to the confluence with Gore Creek) and segment 7 (Cross Creek).

A. History

Segments 5 and 7 are within the sphere of influence of a historic zinc-mining district, including the former Eagle Mine site. From 1980 until 1999, ambient quality-based standards for several metals had been in place on segments 5 and 7. In 1988, remediation of the Eagle Mine site began under Superfund. In the August 1999 rulemaking the Commission adopted new underlying standards (goals) and Temporary Modifications for cadmium and zinc to reflect existing water quality. The standards (goals) were based on ARARs established in the 1993 Eagle Mine Superfund Site Record of Decision (ROD). The ARARs are defined in the ROD as numerical remedial action goals subject to revision, and were based on table values in the Basic Standards. The Commission noted in the 1999 Statement of Basis and Purpose that, upon completion of remedial action or achievement of an agreed-upon acceptable level of recovery of aquatic biota in segments 5 and 7, the water quality data for the segments should be reviewed to ascertain the current levels of in-stream metals. Based on such findings, site-specific standards may be deemed appropriate for segments 5 and 7 for any metals still exceeding the underlying standards/goals.

B. <u>Temporary Modifications</u>

The Superfund remedial action requirements were completed in 2001, and have resulted in significant improvement in water quality in segments 5 and 7. Therefore, revision of the Temporary Modifications to reflect these water quality improvements is appropriate.

Because water quality data in these segments indicate very strong seasonal trends, seasonal Temporary Modifications have been established for these segments. The 85th percentile of the data for each season was used as the "chronic" value; the 95th percentile was used as the "acute". The Temporary Modifications are set to expire January 1, 2009, coincident with the effective date of standards set at the June 2008 rulemaking hearing for the next triennial review for this basin. Pending the outcome of additional activities at the Superfund Site, changes to the underlying standards will be proposed during the triennial review process. The revised Temporary Modifications adopted in this rulemaking are based on the water quality measured at an integrator station located near the downstream end of each segment; therefore, mass balance calculations conducted for permitting of discharges within the segments and attainment determinations shall be based on attainment of the standards at the downstream end of the segment.

Remaining Uncertainty: Uncertainty still exists as to the appropriate underlying standards to apply to these segments. There is uncertainty regarding what aquatic life use is attainable, based in part on uncertainty regarding the potential for additional remediation and other activity in this watershed. There is also uncertainty regarding what water quality levels are necessary to protect a selected expected aquatic life use. It appears that zinc is the primary environmental variable that negatively influences aquati life. Prior to expiration of these Temporary Modifications, additional studies will be undertaken to address this uncertainty

Duration of the Temporary Modification: The Commission has set the Temporary Modification to expire on January 1, 2009. This coincides with the anticipated effective date of changes that will be made in the next basin-wide hearing (June, 2008) The Commission expects that the above mentioned studies as well as the CERCLA process will reduce the uncertainty and provide a basis to move forward with underlying standards in the June 2008 hearing process.

C. Re-segmentation.

The Commission adopted re-segmentation of segments 5 and 7, based on recognized changes in water quality, hardness and use. Segments 5 and 7 have been subdivided into five sub-segments as described below:

- Mainstem of the Eagle River from a point immediately above the compressor house bridge at Belden to a point immediately above the Highway 24 Bridge near Tigiwon Road.
- Mainstem of the Eagle River from a point immediately above the Highway 24 Bridge near Tigiwon Road to a point immediately above the confluence with Martin Creek.
- Mainstem of the Eagle River from a point immediately above Martin Creek to a point immediately above the confluence with Gore Creek.
- 7a Mainstem of Cross Creek from the source to a point immediately below the Minturn Middle School, except for those waters included in Segment 1.
- 7b Mainstem of Cross Creek from a point immediately below the Minturn Middle School to the confluence with the Eagle River, except for those waters included in Segment 1.

D. Antidegradation

Because remediation activities have improved water quality in segments 5a, 5b, 5c and 7b, since the September 30, 2000 date established in the Basic Standards as the default baseline, the Commission has included a note in the Designation column in the tables to indicate that the September 30, 2000 default baseline date does not apply to these specific segments. In accordance with the Basic Standards (section 31.8(3)(c)(ii)(B)), the appropriate baseline date and baseline water quality will be determined at the time that a new activity triggers an antidegradation review. It is anticipated that this will be the date upon which the antidegradation review commences. The City of Colorado Springs raised concerns that the antidegradation review process includes calculations of low-flow pollutant concentrations, and that the ultimate development of upstream water rights will decrease instream flows that currently provide dilution flow to these stream segments. The Commission clarifies that nothing in this Regulation is intended to or shall be construed as requiring the maintenance of instream flows for any purpose.

PARTIES TO THE RULEMAKING

- 1. Hazardous Materials and Waste Management Division
- 2. Viacom International Inc.
- 3. EPA Superfund Remedial Program
- 4. Vail Associates, Inc.
- 5. Eagle Park Reservoir Company
- 6. Eagle River Water and Sanitation District
- 7. Colorado Division of Wildlife,
- 8. City of Colorado Springs
- 9. Northwest Colorado Council of Governments
- 10. Eagle River Watershed Council
- 11. Town of Minturn
- 12. Kamlet Shepherd & Reichert
- 13. U.S. Environmental Protection Agency

33.40 STATEMENT OF BASIN SPECIFIC STATUTORY AUTHORITY AND PURPOSE DECEMBER 2006 RULEMAKING REGARDING TEMPORARY MODIFICATIONS, EFFECTIVE MARCH 4, 2007

The provisions of C.R S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

The Commission recently restructured section 31.7(4) and established an annual rulemaking hearing to review temporary modifications (regardless of the basis) that are due to expire in the two years following the rulemaking hearing. In this hearing, the Commission considered evidence as discussed in subsections 31.7(3) (b) and (c) to determine whether the temporary modification should be modified, eliminated or extended.

The Commission deleted the temporary modifications for the following segments thereby allowing the underlying standards to go into effect:

Blue River segment 7: no Cd(ac), Cd(ch)=5.2, Cu(ch)=79, Pb(ch)=6.7, no Zn(ac), Zn(ch)=1,380 Blue River segment 12: Zn(ch) 850 Upper Yampa segment 13d: Se(ac/ch) 60

Because parties are working to resolve uncertainty and are on schedule to address these segments at the regularly scheduled basin-wide rulemaking (June 2008), the Commission took no action on the temporary modifications for the following segments, leaving their expiration dates unchanged.

Blue River segment 6: Cd(ch)=2.3, Cu(ch)=17, no Zn(ac), Zn(ch)=654 Eagle River segment 5a: seasonal temporary modification for zinc Eagle River segment 5b: seasonal temporary modification for zinc Eagle River segment 5c: seasonal temporary modification for zinc Eagle River segment 7b: seasonal temporary modification for zinc

PARTIES TO THE RULEMAKING HEARING

- 1. Trapper Mining Inc.
- 2. The City of Grand Junction
- Corrections Corporation of America
- 4. Keystone Resort
- U.S. EPA Region VII
- 6. The City of Black Hawk and the Black Hawk/Central City Sanitation District
- 7. The City of Colorado Springs
- 8. Information Network for Responsible Mining
- 9. Seneca Coal Company

33.41 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE: January 2007 Rulemaking Hearing; Final Action February 12, 2007; Revisions effective July 1, 2007

The provisions of section 25-8-202(1)(b), 25-8-204; 25-8-402, C.R.S., provide the specific statutory authority for adoption. The Commission also adopted, in compliance with section 24-4-103(4) C.R.S., the following statement of basis and purpose.

BASIS AND PURPOSE:

The Commission revised the basin-wide temperature standards as part of the 2007 rulemaking hearing. These changes clarify the numeric temperature standards that will be in effect until the basin-wide rulemaking hearing in June of 2008. At that time, the Commission intends to consider segment specific temperature standards for all segments with aquatic life uses.

The Commission applied 17 °C as an interim chronic standard for small, high elevation streams that are likely to be habitat for brook trout and cutthroat trout. First, second and third order streams are defined at section 31.5 in the Basic Standards.

The Commission also applied 18.2 °C as an interim chronic standard to waters designated by the Colorado Wildlife Commission as "Gold Medal Fisheries". The Commission agrees that it is important to protect these fisheries that provide important recreational and tourism opportunities in the headwaters of Colorado. This standard is based on a criterion to protect rainbow trout. The Colorado Division of Wildlife presented evidence that rainbow trout thrive in Gold Medal fisheries because they are provided the necessary forage base and thermal conditions to maximize their consumption and growth. Because these thermal conditions also represent the upper temperature tolerance range for this species, it was determined that an interim standard of 20 °C would not be adequate to protect these fisheries.

For the remainder of the cold water segments, the Commission left the current 20 °C in place as an interim standard with the clarification that it is a chronic standard. The existing 30 °C criterion for warm water segments was left in place as an interim standard with the clarification that is also to be applied as a chronic standard.

PARTIES TO THE RULEMAKING HEARING

- The Temperature Group (City of Aurora, City of Boulder, Colorado Springs Utilities, Littleton/Englewood Wastewater Treatment, The Metro Wastewater Reclamation District, Colorado Mining Association, Colorado Rock Products Association, Tri-State Generation & Transmission Assn., Xcel Energy, Denver Water, Northern Colorado Water Conservancy District, Southeastern Colorado Water Conservancy District)
- 2. City of Grand Junction
- 3. City of Loveland
- 4. City of Pueblo
- 5. Metro Wastewater Reclamation District
- 6. City of Aurora
- 7. City of Boulder
- 8. Colorado River Water Conservation District
- 9. Colorado Wastewater Utility Council
- 10. Bear Creek Watershed Association
- 11. Chatfield Watershed Authority
- 12. Mountain Coal Company, L.L.C.
- 13. Northern Colorado Water Conservancy District
- 14. Colorado Rock Products Association
- 15. Littleton/Englewood Wastewater Treatment Plant
- 16. Northwest Colorado Council of Governments
- 17. Southeastern Colorado Water Conservancy District
- 18. Colorado Mining Association
- 19. Colorado Division of Wildlife
- 20. South Platte Coalition for Urban River Evaluation
- 21. City and County of Denver
- 22. City of Colorado Springs and Colorado Springs Utilities
- 23. City of Westminster
- 24. Board of Water Works of Pueblo
- 25. Coors Brewing Company
- 26. City and County of Broomfield
- 27. Centennial Water and Sanitation District
- 28. Plum Creek Wastewater Authority
- 29. Climax Molybdenum Company
- 30. Cripple Creek & Victor Gold Mining Company
- 31. Tri-State Generation and Transmission Association
- 32. Xcel Energy
- 33. Sky Ranch Metropolitan District No. 2
- 34. Parker Water and Sanitation District
- 35. CAM-Colorado and CAM Mining LLC
- 36. Aggregate Industries WCR, Inc.

- 37. Grand County Water and Sanitation District #1, Winter Park Water and Sanitation District, Winter Park West Water and Sanitation District and Fraser Sanitation District
- 38. Trout Unlimited and Colorado Trout Unlimited
- 39. Colorado Contractors Association
- 40. United States Environmental Protection Agency, Region 8
- 41. Hot Springs Lodge and Pool
- 42. Denver Regional Council of Governments

33.42 STATEMENT OF BASIN SPECIFIC STATUTORY AUTHORITY AND PURPOSE MARCH 2007 RULEMAKING REGARDING AMMONIA STANDARDSEFFECTIVE SEPTEMBER 1, 2007

The provisions of C.R S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE:

At the June 2005 Basic Standards rulemaking, the Commission adopted the 1999 Update of Ambient Water Quality Criteria for Ammonia (US EPA, Office of Water, EPA-822-R-99-014, December 1999) as the numeric ammonia criteria for Colorado. These new criteria are in the form of total ammonia rather than un-ionized ammonia. The Commission modified the ammonia equations in 35.6(3) and footnotes to conform to Regulation # 31.

Consistent with the approach outlined in the Basic Standards statement of basis and purpose, the Commission provided flexibility for dischargers faced with the possibility of new, more stringent effluent limits.

Temporary modifications were generally set to expire on 12/31/11. This date is set far enough in the future to allow facilities to consider their specific circumstances and to develop a plan regarding how to proceed, yet soon enough to assure that facilities are making progress in developing facility plans. For those that feel the underlying standards are inappropriate, time is allowed to study the receiving water and develop a proposal for an alternate standard. For those that need time to plan, finance or construct new facilities, time is allowed to develop that facility improvement plan.

The intent of the Commission is that in general, the permits for dischargers to warm water segments, that need time to achieve compliance, will contain schedules of compliance in the next renewal. The Commission understands that such a compliance schedule may include time to complete necessary subtasks or milestones. For example, this might include time to do facility planning, make financing arrangements, pre-design, design, construction, startup and commissioning.

There are several opportunities to revisit the duration of the temporary modifications before they expire on 12/31/2011. For those segments in the Upper and Lower Colorado Basins (Regulations # 33 and 37), persons can come forward at the Issues Formulation hearing in November 2007 with their intent to seek a site-specific adjustment in the June 2008 hearing. For those segments in the South Platte Basin (Regulation # 38), persons can come forward at the Issues Formulation hearing in November 2008 with their intent to seek a site-specific adjustment in the June 2009 hearing. In addition, all of these temporary modifications will be subject to the Annual Temporary Review process which will have hearings in December 2009 and 2010.

The Commission intends that the temporary modifications adopted in this rulemaking are "type i" temporary modifications.

The issues raised in this rulemaking hearing have highlighted the need to clarify the relationship between the temporary modification tool and the compliance schedule tool in Colorado's water quality management program. The Commission requests that the Division consider this issue further, with input from interested stakeholders, and bring forth any suggested revisions/clarifications for the 2010 Basic Standards rulemaking.

In the meantime, because of the Commission's previously expressed concerns regarding the unique and widespread challenges associated with compliance with the new ammonia standards, the Commission's intent with respect to temporary modifications and compliance schedules regarding these new ammonia standards is as follows:

- Where a demonstration has been made that a period of time longer than the end of 2011 will be required for compliance with the new ammonia standards, the Commission has approved an appropriate site-specific temporary modification expiration date.
- For segments where the 12/31/11 expiration date applies, and for which discharge permit renewals may be issued prior to that date, it is the Commission's intent, consistent with section 31.14(15)(a), that the Division have the authority to issue compliance schedules that may not result in full attainment of the ammonia standard prior to expiration of the renewal permit. Such compliance schedules should be issued only where the Division determines that a specific demonstration has been made that additional time is needed to attain the standard. In such cases, the Commission anticipates that permits would include milestones that assure reasonable progress toward attainment of the standard.

PARTIES TO THE RULEMAKING

- 1. Boxelder Sanitation District
- Estes Park Sanitation District
- 3. City of Pueblo
- 4. The City of Boulder
- 5. The Metro Wastewater Reclamation District
- 6. The Colorado Wastewater Utility Council
- 7. The Paint Brush Hills Metropolitan District
- 8. The Grand County Water & Sanitation District #1, the Winter Park West Water & Sanitation District, the Fraser Sanitation District and the Winter Park Water & Sanitation District
- 9. Mountain Water & Sanitation District
- 10. The Town of Gypsum
- 11. The City of Grand Junction
- 12. City and County of Broomfield
- 13. Centennial Water & Sanitation District
- 14. Town of Erie
- 15. The City of Fort Collins
- 16. Plum Creek Wastewater Authority
- 17. The City of Sterling
- 18. Eastern Adams County Metropolitan District
- 19. The City of Littleton
- 20. Two River Metro District
- 21. H Lazy F Mobile Home Park
- 22. Rock Gardens Mobile Home
- 23. Blue Creek Ranch
- 24. The City of Greeley
- 25. US EPA

33.43 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE: DECEMBER 10, 2007 RULEMAKING REGARDING TEMPORARY MODIFICATIONS; EFFECTIVE MARCH 1, 2008

The provisions of C.R S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the Commission reviewed the status of temporary modifications to determine whether the temporary modification should be modified, eliminated or extended.

Language was added to subsection 33.6(2) to explain the terms "type i" and "type iii" temporary modifications.

The following segment's temporary modification was inadvertently left in the table after last year's hearing. It was deleted in this hearing.

Yampa River segment 13d, temporary modification for selenium.

Parties are working to resolve uncertainty and are on schedule to address these segments at the regularly scheduled basin-wide rulemaking (June 2008), The Commission added "type iii", but took no action on the expiration date for the following segments.

Blue River segment 6: temporary modification for cadmium, copper and zinc

Eagle River segment 5a: seasonal temporary modification for zinc

Eagle River segment 5b: seasonal temporary modification for zinc

Eagle River segment 5c: seasonal temporary modification for zinc

Eagle River segment 7b: seasonal temporary modification for zinc.

PARTIES TO THE RULEMAKING

- 1. Big Dry Creek Cities (City of Westminster, City of Northglenn, and City and County of Broomfield)
- 2. Colorado Rock Products Association
- 3. City of Grand Junction
- 4. City of Colorado Springs and Colorado Springs Utilities
- 5. Upper Clear Creek Watershed Association
- 6. City of Black Hawk and Black Hawk / Central City Sanitation District
- 7. Department of Energy Office of Legacy Management
- City of Aurora
- 9. Shell Frontier Oil & Gas, Inc.
- 10. City of Boulder
- 11. Tri-Lakes Wastewater Treatment Facility
- 12. Security Sanitation District
- 13. City of Fort Collins
- 14. Metro Wastewater Reclamation District
- 15. U.S. EPA

33.44 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; JUNE 2008 RULEMAKING: FINAL ACTION AUGUST 11. 2008: EFFECTIVE DATE JANUARY 1. 2009

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted, in compliance with 24-4-103(4) C.R.S., the following statement of basis and purpose.

BASIS AND PURPOSE:

A. Waterbody Segmentation

The Commission decided to split lakes/reservoirs from segments that contain both streams and lakes/reservoirs so that new temperature standards could be adopted. Lakes and reservoirs were deleted from the following segments that previously encompassed both streams and lakes/reservoirs:

Upper Colorado River segments: 1, 2, 9. Blue River segment: 16. Roaring Fork River segment: 1. North Platte River segments: 1, 2, 4a. Yampa River segments: 1a, 19.

The following are newly created lakes/reservoirs segments:

Upper Colorado River segments: 11, 12.

Blue River segments: 21, 22. Eagle River segments: 13, 14. Roaring Fork River segments: 11, 12. North Platte River segments: 8, 9.

Yampa River segment: 1b.

Some renumbering and/or creation of new segments was made due to information which showed that: a) the original reasons for segmentation no longer applied; b) new water quality data showed that streams should be resegmented based on changes in their water quality; and/or c) certain segments could be grouped together in one segment because they had similar quality and uses. In particular, segmentation was changed to facilitate adoption of the new temperature standards into individual segments. The following changes were made:

<u>Upper Colorado River 1:</u> The segment description was amended to exclude lakes and reservoirs. The alteration of this segment, and the resultant creation of Segment 11 were necessary to facilitate the adoption of appropriate temperature standards. Lakes and reservoirs found in this segment are now part of Segment 11.

<u>Upper Colorado River 2:</u> The segment description was amended to exclude lakes and reservoirs. The alteration of this segment, and the resultant creation of Segment 12 were necessary to facilitate the adoption of appropriate temperature standards. Lakes and reservoirs found in this segment are now part of Segment 12.

<u>Upper Colorado River 6a:</u> The segment description was amended to reflect the split of Segment 10 into Segments 10a-c; the additional exclusion of specific listings in Segments 1, 2, 4, 5 and 9; as well as the decision to move the endpoint of the segment from below to above the confluence of Muddy Creek and the Blue River. This alteration eliminated confusion regarding the segment associations pertinent to Muddy Creek and its tributaries. Muddy Creek and its tributaries are intended to be included in portions of segment 7a, 7b, and 7c. The alteration of this segment was necessary to facilitate the adoption of appropriate temperature standards.

<u>Upper Colorado River 7a:</u> The segment description was amended to exclude listings in Segment 7c and clarify the upper boundary of the segment as a point immediately above both the Blue River and Muddy Creek. The alteration of this segment, and the creation of Segment 7c were necessary to facilitate the adoption of appropriate temperature standards (CS-II).

<u>Upper Colorado River 7b:</u> The segment description was amended to include all wetlands within the existing segment.

<u>Upper Colorado River 7c:</u> This new segment was created to group similar streams formerly found within segment 7a. Muddy Creek from the source to a point immediately below the confluence with Eastern Gulch; all tributaries to and wetlands of Muddy Creek from the source to the outlet of Wolford Mountain Reservoir, except for listings in Segment 4. The mainstems of Derby, Blacktail, Cabin and Red Dirt Creeks (all below Wolford Mountain Reservoir), including all tributaries and wetlands, from their sources to their confluence with the Colorado River; except for specific listings in segment 4, were included in the newly created segment. The creation of this segment, and the resultant alteration of Segment 7a were based on geographic location and was necessary to facilitate the adoption of appropriate temperature standards (CS-I).

<u>Upper Colorado River 9:</u> The segment description was amended to exclude lakes and reservoirs and to include streams within the Vasquez Wilderness Area. The alteration of this segment, and the resultant creation of Segment 11 were necessary to facilitate the adoption of appropriate temperature standards. Lakes and reservoirs found in this segment are now part of Segment 11.

<u>Upper Colorado River 10a:</u> The segment description was amended to reflect a new endpoint of the mainstem portion of the segment. The mainstem portion of the segment now ends at a point immediately below the Rendezvous Bridge, while all tributaries to the Fraser, including wetlands, from the source to the confluence with the Colorado River are still found within this segment. The split of the mainstem, and the resultant creation of Segments 10b and 10c were necessary to facilitate the adoption of temperature standards. (See Section P)

<u>Upper Colorado River 10b:</u> This new segment was created for the mainstem of the Fraser River from a point immediately below the Rendezvous Bridge to a point immediately below the Hammond Ditch. The creation of this segment, and the alteration of Segment 10a were necessary to facilitate the adoption of temperature standards. This portion of the mainstem was previously part of Segment 10. (See Section P)

<u>Upper Colorado River 10c:</u> This new segment was created for the mainstem of the Fraser River from a point immediately below the Hammond Ditch to the confluence with the Colorado River. The creation of this segment, and the alteration of Segment 10a and 10b were necessary to facilitate the adoption of temperature standards. This portion of the mainstem was previously part of Segment 10. (See Section P)

<u>Upper Colorado River 11:</u> This new segment was created for lakes located in Rocky Mountain National Park as well as all Wilderness areas within the Upper Colorado River Basin. The creation of this segment, and the alteration of Segments 1 and 9 were necessary to facilitate the adoption of appropriate temperature standards. These lakes were previously part of Segments 1 and 9.

<u>Upper Colorado River 12:</u> This new segment was created for lakes located in Arapahoe National Recreation Area. The creation of this segment, and the alteration of Segment 2 were necessary to facilitate the adoption of appropriate temperature standards. These lakes, including Grand Lake, Shadow Mountain Lake, and Lake Granby were previously part of Segment 2.

<u>Blue River 3:</u> The segment description was amended to include only lakes located in the Blue River Drainage above Dillon Reservoir with the exception of lakes located within Segment 21. The alteration of this segment, and the resultant creation of Segment 4 were necessary to facilitate the adoption of appropriate temperature standards. Stream portions of the segment were moved to Segment 4.

<u>Blue River 4a:</u> This new segment was created for tributaries to Dillon Reservoir, including wetlands, except for specific listings in Segments 1, 2a, 2b, 4b, 5, 6, and 10-14. The creation of this segment, and the alteration of Segment 3 were necessary to facilitate the adoption of appropriate temperature standards and antidegradation designations. These streams were previously part of Segment 3. (See Section R)

<u>Blue River 4b:</u> This new segment was created for the North Fork of the Swan River, including all tributaries and wetlands, from the source to the confluence with the Swan River. The creation of this segment, and the alteration of Segment 4a, were necessary to facilitate the adoption of an outstanding waters antidegradation designation. (See Section R)

<u>Blue River 6a:</u> The segment description was amended to reflect the creation of segment 6b. A portion of this segment; Jones gulch, including all tributaries and wetlands; was also moved to Segment 8. The alteration of this segment, the creation of Segment 6b, and the inclusion of Jones Gulch (and tributaries and wetlands) in Segment 8 were necessary to facilitate the adoption of appropriate zinc standards.

<u>Blue River 6b:</u> This new segment was created for the mainstem of Camp Creek, including all tributaries and wetlands from the source to confluence with the Snake River. The creation of this segment and the alteration of Segment 6a were necessary to facilitate the adoption of appropriate zinc standards.

<u>Blue River 8:</u> The segment description was amended to reflect the inclusion of the mainstem of Jones gulch, including all tributaries and wetlands from the source to the confluence with the Snake River. The addition of these stream reaches, formerly found in segment 6, was necessary to facilitate the adoption of appropriate zinc standards.

<u>Blue River 16:</u> The segment description was amended to exclude lakes and reservoirs. The alteration of this segment, and the resultant creation of Segment 21 were necessary to facilitate the adoption of appropriate temperature standards. Lakes and reservoirs found in this segment are now part of Segment 21.

<u>Blue River 21:</u> This new segment was created for lakes located in Wilderness areas within the Blue River Basin. The creation of this segment, and the alteration of Segments 3 and 16 were necessary to facilitate the adoption of appropriate temperature standards. These lakes were previously part of Segment 16.

<u>Blue River 22:</u> This new segment was created for lakes located in the Blue River drainage below Dillon Reservoir, except specific listings in Segment 21. The creation of this segment was necessary to facilitate the adoption of appropriate temperature standards. These lakes were previously unassigned to a particular segment.

<u>Eagle River 9a:</u> The segment description was amended to reflect a new endpoint of the segment. The segment now ends at a point immediately below the confluence with Rube Creek. The split of the segment, and the resultant creation of Segment 9b were necessary to facilitate the adoption of appropriate temperature standards.

<u>Eagle River 9b:</u> This new segment was created for the mainstem of the Eagle River below the confluence with Rube Creek. The creation of this segment, and the alteration of Segment 9a were necessary to facilitate the adoption of appropriate temperature standards. This portion of the mainstem was previously part of Segment 9.

<u>Eagle River 10a:</u> The segment description was amended to exclude specific listings in segment 10b. The alteration of this segment and the creation of Segment 10b were necessary to facilitate the adoption of appropriate antidegradation designations. (See Section R)

<u>Eagle River 10b:</u> This new segment was created for Abrams Creek, including all tributaries and wetlands, from the source to the eastern boundary of the United States Bureau of Land Management lands. The creation of this segment, and the alteration of Segment 10a, were necessary to facilitate the adoption of an outstanding waters antidegradation designation. (See Section R)

<u>Eagle River 13:</u> This new segment was created for lakes located in Wilderness areas within the Eagle River Basin. The creation of this segment was necessary to facilitate the adoption of appropriate temperature standards. These lakes were previously unassigned to a particular segment.

<u>Eagle River 14:</u> This new segment was created for lakes located in the Eagle River Basin, except for specific listings in Segment 13. The creation of this segment was necessary to facilitate the adoption of appropriate temperature standards. These lakes were previously unassigned to a particular segment.

<u>Roaring Fork River 1:</u> The segment description was amended to exclude lakes and reservoirs. The alteration of this segment, and the resultant creation of Segment 11 were necessary to facilitate the adoption of appropriate temperature standards. Lakes and reservoirs found in this segment are now part of Segment 11.

Roaring Fork River 3a: The segment description was amended to reflect a new endpoint of the mainstem portion of the segment. The mainstem portion of the segment now ends at a point immediately below the confluence with the Fryingpan River. All tributaries to the Roaring Fork, including wetlands, from the source to the confluence with the Colorado River are still found within this segment, except for specific listings in Segment 1 and 3b-10. The split of the mainstem, and the resultant creation of Segment 3c were necessary to facilitate the adoption of appropriate temperature standards.

Roaring Fork River 3c: This new segment was created for the mainstem of the Roaring Fork below the confluence with the Fryingpan River to facilitate the adoption of appropriate temperature standards. The mainstem of Three Mile Creek, including all tributaries and wetlands, from the source to the confluence with the Roaring Fork River, is also included in this segment. The creation of this segment, and the alteration of Segment 3a were necessary to facilitate the adoption of appropriate temperature standards. These streams were previously part of Segment 3a.

<u>Roaring Fork River 11:</u> This new segment was created for lakes located in Wilderness areas within the Roaring Fork River Basin. The creation of this segment, and the alteration of Segment 1 were necessary to facilitate the adoption of appropriate temperature standards. These lakes were previously part of Segment 1.

Roaring Fork River 12: This new segment was created for lakes located in the Roaring Fork River Basin, except specific listings in Segment 11. The creation of this segment was necessary to facilitate the adoption of appropriate temperature standards. These lakes were previously unassigned to a particular segment.

<u>North Platte River 1:</u> The segment description was amended to also exclude lakes and reservoirs and to facilitate the adoption of appropriate temperature standards. Lakes and reservoirs found in this segment are now part of Segment 8.

North Platte River 2: The segment description was amended to exclude lakes and reservoirs. The alteration of this segment, and the resultant creation of Segment 9 were necessary to facilitate the adoption of appropriate temperature standards. Lakes and reservoirs found in this segment are now part of Segment 9.

North Platte River 4a: The segment description was amended to exclude lakes and reservoirs. The segment description was additionally amended to exclude listings in segment 4b. The alterations of this segment, and the resultant creations of Segments 4b and 9 were necessary to facilitate the adoption of appropriate temperature standards. Lakes and reservoirs found in this segment are now part of Segment 9

North Platte River 4b: This new segment was created to group similar streams formerly found within segment 4a. Included in this segment is the Illinois River and all tributaries and wetlands from a point immediately below the confluence with Indian Creek to the confluence with the Michigan River, except for specific listings in Segments 7a and 7b. The mainstem of the Canadian River below 12E Road to the confluence with the North Platte River, as well as all tributaries and wetlands which enter the Canadian River from the southwest side of the mainstem, were also included in the new segment.

North Platte River 5a: The segment description was amended to reflect a new endpoint of the segment. The segment now ends at a point immediately below the confluence with the North Fork Michigan River. The alteration of this segment, and the resultant change of Segment 5b were necessary to facilitate the adoption of appropriate temperature standards.

North Platte River 5b: The segment description was amended to reflect a new upper boundary of the segment. The segment now starts at a point immediately below the confluence with the North Fork Michigan River. The alteration of this segment, and the change of Segment 5a were necessary to facilitate the adoption of appropriate temperature standards.

North Platte River 7a: The segment description was amended to reflect a new endpoint of the segment. The segment now ends at the outlet of Spring Creek (Number 31) Reservoir. The alteration of this segment, and the resultant creation of Segment 7b were necessary to facilitate the adoption of appropriate temperature standards.

North Platte River 7b: The segment description was amended to reflect a new upper boundary of the segment. The segment now starts at the outlet of Spring Creek (Number 31) Reservoir. The creation of this segment, and the alteration of Segment 7a were necessary to facilitate the adoption of appropriate temperature standards.

North Platte River 8: This new segment was created for lakes located in Wilderness areas within the North Platte River Basin. The creation of this segment, and the alteration of Segment 1 were necessary to facilitate the adoption of appropriate temperature standards. These lakes were previously part of Segment 1.

North Platte River 9: This new segment was created for lakes located in the North Platte River Basin, except specific listings in Segments 8. The creation of this segment, and the alteration of Segments 2 and 4a were necessary to facilitate the adoption of appropriate temperature standards. These lakes were previously part of Segments 2 and 4a.

<u>Yampa River 1a:</u> The segment description was amended to also exclude lakes and reservoirs and to facilitate the adoption of appropriate temperature standards. Lakes and reservoirs found in this segment are now part of Segment 1b.

<u>Yampa River 1b:</u> This new segment was created for lakes located in Wilderness areas within the Yampa River Basin. The creation of this segment, and the alteration of Segment 1a were necessary to facilitate the adoption of appropriate temperature standards. These lakes were previously part of Segment 1a.

<u>Yampa River 2a:</u> The segment description was amended to reflect a new endpoint of the segment. The segment now ends at a point immediately below the confluence with Oak Creek. The alteration of this segment, and the resultant creation of Segment 2c were necessary to facilitate the adoption of appropriate temperature standards.

<u>Yampa River 2b:</u> The segment description was amended to include all lakes and reservoirs tributary to the Little Snake River and to reflect the split of Segment 1 into Segments 1a and 1b. The segment description was additionally amended to reflect the creation of Segment 1b. The alteration of this segment was necessary to facilitate the adoption of appropriate temperature standards. These lakes were previously part of Segment 19.

<u>Yampa River 2c:</u> This new segment was created for the mainstem of the Yampa River below the confluence with Oak Creek. The creation of this segment, and the alteration of Segment 2a were necessary to facilitate the adoption of appropriate temperature standards. This portion of the mainstem was previously part of Segment 2a.

<u>Yampa River 3:</u> The segment description was amended to exclude the new Segment 13f. The alteration of this segment, and the creation of Segment 13f were necessary to facilitate the adoption of appropriate temperature standards.

<u>Yampa River 11:</u> This new segment was created for Fish Creek, including all tributaries and wetlands, above Country Road 27, except for specific listings in Segment 20. The creation of this segment, and the alteration of Segment 12 were necessary to facilitate the adoption of appropriate temperature standards. These streams were previously part of Segment 12.

<u>Yampa River 12:</u> The segment description was amended to reflect the creation of Segment 11 which removed the Fish Creek, including all tributaries and wetlands, above County Road 27 from the segment. The alteration of this segment, and the resultant creation of Segment 11 were necessary to facilitate the adoption of appropriate temperature standards.

<u>Yampa River 13a:</u> The segment description was amended to reflect the creation of Segment 13f, which removed the portion of Trout Creek, including all tributaries and wetlands, below the confluence with Fish Creek from the segment. The alteration of this segment, and the resultant creation of Segment 13f were necessary to facilitate the adoption of appropriate temperature standards.

<u>Yampa River 13d:</u> The segment description was amended to clarify which Dry Creek is intended to be described for this segment. This segment is meant to describe the Dry Creek that has its confluence with the Colorado River immediately below the town of Hayden, Colorado.

<u>Yampa River 13f:</u> This new segment was created for Trout Creek, including all tributaries and wetlands, below the confluence with Fish Creek. The creation of this segment, and the alteration of Segment 13a were necessary to facilitate the adoption of appropriate temperature standards. These streams were previously part of Segment 13a.

<u>Yampa River 14:</u> The segment description was amended to reflect new endpoints of the segment. The segment now ends at points immediately below the confluence with Calf Creek and below 80A Road on the Dry Fork of Elkhead Creek. The alteration of this segment, and the resultant creation of Segment 15 were necessary to facilitate the adoption of appropriate temperature standards.

<u>Yampa River 15:</u> This new segment was created for Elkhead Creek, including all tributaries and wetlands, from a point immediately below the confluence with Calf Creek and below 80A Road on the Dry Fork of Elkhead Creek, to the confluence with the Yampa River. The creation of this segment, and the alteration of Segment 14 were necessary to facilitate the adoption of appropriate temperature standards. These streams were previously part of Segment 14.

<u>Yampa River 19:</u> The segment description was amended to exclude lakes and reservoirs. The alteration of this segment was necessary to facilitate the adoption of appropriate temperature standards. Lakes and reservoirs found in this segment are now part of Segment 2b.

<u>Yampa River 20a:</u> The segment description was amended to reflect new endpoints of the segment. The Elkhead Creek and First Creek portions of the segment now end at the eastern boundary of state lands in California Park. The alteration of this segment, and the resultant creation of Segment 20b were necessary to facilitate the adoption of the appropriate recreation use classification. (See Section X)

<u>Yampa River 20b:</u> This new segment was created for portions of First Creek and Elkhead Creek below the eastern boundary of state lands in California Park. The creation of this segment, and the alteration of Segment 20a were necessary to facilitate the adoption of the appropriate recreation use classification. These streams were formerly part of Segment 20. (See Section X)

B. Revised Aquatic-Life Use Classifications

The Commission reviewed information regarding existing aquatic communities. The following changes to the existing aquatic-life use classifications were made.

Yampa River 14 was split and portions were moved to segment 15: a change from Cold 1 to Warm 1.

C. Recreation Classifications and Standards

As part of the Basic Standards hearing of 2005, recreation classifications were revised into four new classifications. The Commission reviewed the previous segment classifications (1a, 1b and 2) and determined the appropriate new classification based on classification criteria presented as part of the Basic Standards Hearing, use attainability analyses or other basis. In addition, during the 2005 Basic Standards Hearing, the transition from the use of the fecal coliform standard to *E. coli* standard was completed. Fecal coliform criteria were deleted from the numeric standards.

Based on the information that showed existing primary contact recreation use is in place in at least a portion of the segment, the Commission converted the following segments from Recreation Class 1a to Recreation Class E with a 126/100 ml *E. coli* standard:

Upper Colorado River segments: 1-5, 7b, 8-10a.
Blue River segments: 1-3, 5, 6, 8-10, 14-18.
Eagle River segments: 1-9a, 10, 12.
Roaring Fork River segments: 1-3a, 4-10.
North Platte River segments: 1, 3, 4a, 5a.

Yampa River segments: 1a, 2a, 2b, 3, 6, 8, 13a-d, 14, 18-20a.

The following segments were converted from Recreation Class 1b to Recreation Class P with a 205/100 ml *E. coli* standard:

Blue River segments: 11-13. Eagle River segment: 11. North Platte River segment: 2. Yampa River segments: 5, 7.

Based on review of existing Use Attainability Analyses showing that primary contact recreation is not attainable, the following segments were converted from Recreation Class 2 to Recreation Class N classification with 630/100 ml E. coli standard:

Upper Colorado River segments: 6b, 6c, 7a.

Blue River segments: 7, 19, 20. Roaring Fork River segment: 3b. North Platte River segments: 5b-7a. Yampa River segments: 4, 12, 13e.

D. Addition of Water Supply Use Classification and Standards

Based on review of information regarding the location of public water supplies, no additional Water Supply use classifications or standards were added to Regulation No. 33.

E. Agriculture Standards

A review of the standards associated with the Agriculture use classification showed that many segments were missing a nitrate standard protective of the use. A nitrate standard, NO₃ =100, was added to the following segments with Agriculture use classification:

Upper Colorado River segments: 6b, 6c.

Blue River segments: 11, 13.
Roaring Fork River segment: 4.
Yampa River segments: 5, 7, 13b-e.

F. Changes to Antidegradation Designation

<u>Decoupling Cold 2 and UP:</u> As part of the Basic Standards hearing of 2005, the Commission eliminated the direct linkage between cold-water aquatic life class 2 and the use-protected designation. Therefore, all cold-water aquatic life class 2 segments that are use-protected were reviewed to determine if that designation is still warranted. The following segments are now reviewable:

Upper Colorado River segments: 6b, 6c.

Blue River segment: 12. Eagle River segment: 11.

Roaring Fork River segments: 3b. North Platte River segment: 7a. Yampa River segments: 4, 12.

<u>Decoupling Aquatic Life Warm 2 and UP:</u> There was no decoupling of the segments with an Aquatic Life Warm 2 classification in the Basin.

Outstanding Waters: See Section R.

G. Ambient Quality-Based Standards

There is one segment in the Basin that has ambient metals standards. Ambient standards are adopted where natural or irreversible man-induced conditions result in exceedances of table value standards. The Commission reviewed the information that is the basis for these standards as well as any new information that would indicate whether they are still appropriate, need to be modified, or should be dropped. The following ambient based standards have been revised based on a recalculation using existing data:

Yampa River segment 13b: Middle Creek: Fe(ch)=1035(Trec).

The WAT standard is not attainable in the majority of large lakes (>100 acres in surface area) including many lakes with apparently healthy cold-water fish populations. Summertime temperature for large lakes and reservoirs (collectively referred to as lakes) is very well correlated to the lake's elevation. Since the thermal properties are natural or man-induced irreversible (in the case of reservoirs) the Commission adopted ambient temperature standards for large lakes wherever data were available to characterize a WAT. For lakes, the WAT is assumed to be equivalent to the average temperature of the mixed layer. If there were less than three years of data, the highest observed WAT was selected for the summertime ambient standard. If three to five years of data were available, the second highest observed WAT was used as the ambient standard. Where temperature data from multiple stations in the same reservoir were collected on the same date, the Division used an average of those stations to calculate the WAT.

Upper Colorado River segment 5:	Wolford Mountain Res:	April-December T(WAT)= 19.73°C
		(See Section O.)
	Williams Fork Res:	April-December T(WAT)= 21.55°C
Upper Colorado River segment 12:	Shadow Mountain Res:	April-December T(WAT)= 19.30°C
	Granby Reservoir:	April-December T(WAT)= 19.42°C
Roaring Fork River segment 12:	Ruedi Reservoir:	April-December T(WAT)= 20.33°C
North Platte River segment 9:	Lake John:	April-December T(WAT)= 20.77°C
:	North Delaney Lake:	April-December T(WAT)= 20.14°C
Yampa River segment 2b:	Stagecoach Reservoir:	April-December T(WAT)= 21.40°C
	Steamboat Reservoir:	April-December T(WAT)= 21.60°C

H. Aquatic Life Metals Standards

<u>New Table Value Standards:</u> As part of the Basic Standards hearing of 2005, new zinc and cadmium table values were adopted. The acute and chronic zinc and cadmium equations in 33.6(3) were modified to conform to Regulation No. 31.

<u>Site-Specific Zinc Standards for Mottled Sculpin:</u> In low hardness situations (hardness below 113 mg/L) the new zinc chronic equation is not protective of mottled sculpin (*Cottus bairdi*), a native west-slope fish species. The Commission adopted a mottled sculpin-specific chronic zinc equation as site-specific standards for the following segments that are inhabited by mottled sculpin and also have low hardness:

Upper Colorado River segments: 1-3, 7b, 8, 10a-c.

Blue River segments: 1, 4a, 4b, 8, 14, 17. Eagle River segments: 1, 2, 4, 6, 7a, 8. Roaring Fork River segments: 2, 5, 6, 10.

Yampa River segments: 2a, 2c, 3, 8, 13a, 18, 19.

<u>Chromium III Standards:</u> A review of the chromium III standards showed that the chromium standard associated with the Water Supply use classification was not protective of aquatic life where the average hardness was less than 61 mg/l. A chromium standard, CrIII(ch)=TVS was added to following segments with average hardness values less than 61 mg/l.

Upper Colorado River segments: 1, 2, 8, 10a-c. Blue River segments: 4a, 4b, 5, 8 - 10, 15, 18.

Eagle River segments: 1, 4, 6, 7a, 7b. Roaring Fork River segments: 2, 5. North Platte River segments: 1, 2, 4b. Yampa River segments: 1a, 3, 8, 18.

I. Arsenic Standards

For arsenic, each use (except recreation) has a different arsenic ("As") value, including Fish Ingestion (FI) and Water Plus Fish (W+F). In different combinations of uses, different values become the most limiting. In order to eliminate the confusion, the Commission added the operative value to the individual segments. The following matrix displays the most limiting arsenic criteria.

Most Limiting Arsenic Criteria

Depending on the Possible Combinations of Uses and Qualifiers

Boponaing on the receible combinations of cooc and Qualificity		
If the Use Classifications were:	These Arsenic Standards were Applied (dissolved unless otherwise noted)	
Class 1 aquatic life, water supply	As(ac) = 340, As(ch) = 0.02(Trec)	
Class 2 aquatic life (water + fish standards), water supply	As(ac) = 340, As(ch) = 0.02(Trec)	

Class 2 aquatic life (no fish ingestion standards), water supply	As(ac) = 340, As(ch) = 0.02 - 10(Trec)
Class 1 aquatic life	As(ac) = 340, As(ch) = 7.6(Trec)
Class 2 aquatic life (fish ingestion standards)	As(ac) = 340, As(ch) = 7.6(Trec)
Class 2 aquatic life (no fish ingestion standards),	As(ac) = 340, As(ch) = 100(Trec)
agriculture	
Agriculture only	As(ch) = 100(Trec)
Water supply only	As(ch) = 0.02 - 10(Trec)

J. Uranium Standards

At the 2005 Basic Standards rulemaking hearing, the Commission changed the drinking water supply table value for uranium from 40 pCi/L to 30 ug/L.

K. <u>Temporary Modifications</u>

All temporary modifications were re-examined to determine whether to delete the temporary modification or to extend them, either as existing or with modifications of the numeric standards. Because of the June 2005 changes to Regulation No. 31, temporary modifications were not automatically extended if non-attainment persisted. The following segments had temporary modifications that were not renewed:

Blue River segments: 6, 7, 12.

The following segments have temporary modifications for ammonia that were amended to clarify the chronic standard as 0.02, rather than just "TVS old". As specified in 61.8(2)(c)(iii) (the Permit Rules, Regulation No. 61), where a temporary modification has been adopted, limits in permits are to be set based on the temporary modification and the provision strictly limiting the loading from the facility does not apply. These temporary modifications will be subject to review and rulemaking for the two years before their scheduled expiration in order to track progress towards the full attainment of water body standards and uses.

Yampa River segment: 13d.

In some cases the Commission adopted temporary modifications of underlying standards with the notation of "existing quality" rather than a numeric. This was done where it was not possible to derive an appropriate characterization of current instream concentrations or temperature conditions. The Commission's intent of using the notation "existing quality" is to preserve the status quo during the term of the temporary modification. Dischargers to those segments shall maintain the existing water quality or pollutant loading characteristics of their effluent with respect to the parameter that has the temporary modification. The Commission does not intend the temporary modifications to apply to new facilities or in Preliminary Effluent Limitations. The Commission adopted type iii temporary modifications of temperature standards equal to "existing quality," for the following segments:

Eagle River segments: 8 and 9a.

L. Temperature

As part of the Basic Standards hearing of 2007, new table values were adopted for temperature. Temperature standards were applied to individual segments based upon the distribution of fish species, as provided by the CDOW, temperature data, and other available evidence.

The following segments are cold stream tier one (CS-I):

Upper Colorado River segments: 1, 2, 4, 6a, 7b-10a.

Blue River segments: 1-2b, 4a-20.

Eagle River segments: 1-9a, 10a-12. Roaring Fork River segments: 1-3a, 4-10. North Platte River segments: 1, 2, 4a, 5a, 6, 7a.

Yampa River segments: 1a, 2a, 3, 5, 6, 8, 11, 13a, 18-20b.

The following segments are cold stream tier two (CS-II):

Upper Colorado River segments: 3, 6b-c, 7a, 10b-c.

Eagle River segment: 9b.

Roaring Fork River segments: 3b, 3c. North Platte River segments: 3, 4b, 5b, 7b.

Yampa River segments: 2c, 4, 7, 12, 13b-c, 13f, 14.

The following segments are cold lakes or cold large lakes (CL,CLL):

Upper Colorado River segments: 5, 11, 12.

Blue River segments: 3, 21, 22.
Eagle River segments: 13, 14.
Roaring Fork River segments: 11, 12.
North Platte River segments: 8, 9.
Yampa River segments: 1b, 2b.

The following segments are warm stream tier two (WS-II):

Yampa River segments: 13d, 13e, and 15.

The Commission recognizes that in some cases there is uncertainty about the temperature standards adopted in this hearing. The uncertainty stems from a lack of data about temperature or the aquatic community or where there is a conflict between the lines of evidence. It is the Commission's intent that the Division and interested parties work to resolve the uncertainty for the following segments by the next basin-wide review.

<u>Upper Colorado River segment 10b and 10c:</u> limited temperature data indicate that numeric attainment may be a problem but that brook and rainbow trout are present. (See Section P.)

Yampa River segment 13d and 13e: limited temperature data indicate that numeric attainment may be a problem and limited biological information was available. (See Section V.)

M. Other Site-Specific Revisions

<u>Upper Colorado River 6b:</u> The cyanide standard was revised to reflect that CN=0.2 is an acute standard. The standard now reads CN(ac)=0.2.

<u>Upper Colorado River 6a:</u> The recreation use classification was changed from Class 2 (Secondary Contact) to Class P (Potential Primary Contact) to reflect the operation of a guest ranch located on Willow Creek which features fishing and other access to the stream. There are also many other potential opportunities for public access to various stream reaches within this segment.

<u>Upper Colorado River 9:</u> The segment description was amended to include the Vasquez Wilderness Area, which had been previously unlisted within the Upper Colorado River Basin.

<u>Eagle River 7a:</u> The CrIII standard was revised to reflect that the 50(Trec) standard is acute rather than chronic.

North Platte 5b: The CrIII acute standard was revised to reflect that the acute standard is 50(Trec) rather than TVS.

North Platte River 7a/b: The "Water + Fish organics apply" qualifier was changed to "Fish Ingestion" to reflect an oversight from the 2003 hearing and the lack of a water supply use classifications for these segments.

Yampa River 13a: The temporary modification for NH₃ found on this segment was moved to Segment 13d. The Hayden treatment plant discharges to Segment 13d, thus prior assignment of this temporary modification to Segment 13a was incorrect.

N. Other Changes

The Commission corrected several typographical and spelling errors, and clarified segment descriptions.

O. Wolford Mountain Reservoir

The River District proposed site-specific D.O. and temperature standards for Wolford Mountain Reservoir. After discussions with the Division, EPA and the Division of Wildlife ("DOW"), the River District agreed to withdraw its proposal in order to further study the possible reasons for non-attainment of the D.O. standard in the reservoir. The Division, EPA, and DOW will assist the River District in developing a study to better understand the reasons for the non-attainment and provide assistance in their respective areas of expertise.

The River District and the Division determined that the WAT for Wolford Mountain Reservoir is 19.73°C based on data collected between 2003 and 2007 and measured at the dam (USGS Station #09041395). When determining compliance with the temperature standard for Wolford Mountain Reservoir in the future, the temperature shall be measured at the dam.

P. Fraser River, Upper Colorado Basin—Temperature Standards

Grand County Water and Sanitation District #1, the Winter Park West Water and Sanitation District, the Fraser Sanitation District, the Winter Park Sanitation District (Grand County Districts) proposed resegmentation and temperature standards for waters in the Fraser River watershed.

The Commission determined that the physical conditions in the Fraser River basin warranted resegmentation based on the instream temperatures, habitat, and fish community composition. Based on instream temperature and fish population monitoring conducted by and for the Grand County Districts and the Grand County Water Information Network (GCWIN), the Commission concluded that a single segment and accompanying temperature standards is not appropriate for the Fraser River. The temperature data indicate a transition from very cold-to cold-to cool in a downstream direction, which is reflected in changes in the fish community with brook trout expected to occur in the upper reaches and a mixed cold water fishery of both game and non-game species in the lower reaches.

Based on these findings, the Commission determined that segment 10 would be split into three distinct segments at specific landmarks and hydrologic breaks that represent shifts in floodplain and stream characteristics. Segment 10a ends at the Rendezvous Bridge, located at or near the former confluence of Leland Creek and the Fraser River. It was determined that CS-I TVS for temperature were appropriate for this upper segment for protection of brook trout.

The rest of pre-existing segment 10 was split into two segments (10b and 10c) at the Hammond ditch, a major irrigation ditch located just north of County Road 8. Even though the classifications and standards are the same for both segments, the stream's physical and biological characteristics are substantially different. CS-II TVS for temperature were applied to both segments 10b and 10c reflecting the presence of rainbow and brown trout; however, the existing temperature data demonstrate a small number of exceedances of the CS-II TVS in segment 10b and numerous exceedances of the CS-II TVS in segment 10c, causing uncertainty regarding attainment of the CS-II TVS in these segments. The data also indicate no significant effect of discharges of municipal effluent on stream temperatures.

The Commission intends to revisit the temperature standards for segments 10b and 10c in 2013. It is anticipated that the ongoing biological and temperature monitoring will provide information to lessen the uncertainties regarding the appropriate long-term stream classifications and temperature standards. (See Section L)

Q. Grand Lake, Upper Colorado Basin—Clarity Standard

The Northwest Colorado Council of Governments, supported by Grand County and the Greater Grand Lake Shoreline Association, proposed a clarity standard for Grand Lake of 4 meter Secchi disk depth, effective July through September.

The Commission determined that it is appropriate to adopt water quality standards for the protection of Grand Lake's clarity because of Grand Lake's uniqueness as Colorado's largest natural lake. Grand Lake adjoins and complements Rocky Mountain National Park in the headwaters of the Colorado River and its social and economic importance is worthy of protection. Senate Document 80 (which recorded the legislative intent of the federal Congress in February 1937) provided in part that the Colorado Big-Thompson Project must be operated in a manner to preserve the scenic attraction of Grand Lake. Concern about the visible loss of transparency of Grand Lake has resulted in local, state and federal initiatives to address the changes in water quality. The earliest measurement of Grand Lake clarity is 9.2 meters (September 6, 1941). The 85th percentile of clarity measurements from 2006 is 2.7 meters.

The Commission recognizes that this is the first time that a clarity standard has been adopted in the Colorado. Clarity standards are being adopted pursuant to the Basic Standards at section 31.13(3), which states "In special cases where protection of beneficial uses requires standards not provided by the classification above, special standards may be assigned after full public notice and hearings." Improvement of clarity within Grand Lake is expected to improve the quality of recreational uses of this unique resource.

The Commission is adopting two clarity standards for Grand Lake. First, the Commission is establishing a narrative clarity standard, to take effect with the other revisions to this regulation. This standard is "the highest level of clarity attainable, consistent with the exercise of established water rights and the protection of aquatic life". This standard is based on the Commission's conclusion that improvement in the clarity of Grand Lake is necessary, while noting that efforts to improve clarity need to be undertaken in a manner consistent with established water rights and need to also consider the protection of the aquatic life use. In basing the standard on "attainability", the Commission intends that attainability is to be judged by whether or not a clarity level can be attained in approximately twenty years by any recognized control techniques that are environmentally, economically, and socially acceptable.

An underlying assumption in setting this narrative standard is that clarity in Grand Lake needs to improve. However, the Commission is not determining in this hearing whether the current evidence of reduced clarity warrants inclusion of Grand Lake on Colorado's Section 303(d) List or the Monitoring and Evaluation List. That issue can be addressed as appropriate in the 2010 hearing on Regulations #93 and #94, based on additional evidence and analysis developed prior to that time.

Second, the Commission is establishing a numerical clarity standard of 4 meter Secchi depth for the months of July through September, with an effective date of January 1, 2014. The intention is that for the majority of the summertime days, the water of Grand Lake shall be clearer than 4 meter Secchi depth. Attainment of the 4 meter Secchi depth standard will be assessed by comparing the 85th percentile of available Secchi depth data collected during the months July through September to the 4 meter standard. Fifteen percent of the measurements may have Secchi depth shallower than 4 meters. When two samples are collected in different locations, or by different agencies on the same day, the Secchi depth value is the average of those samples.

The Commission has determined that the adoption of the 4 meter numerical standard with a delayed effective date is an appropriate policy choice to encourage cooperative efforts to improve Grand Lake clarity prior to the time that a specific numerical standard goes into effect, while assuring that a protective numerical standard will go into effect in 2014 if monitoring, assessment and water quality improvement efforts between now and then have not resulted in identification of a more appropriate numerical standard.

All parties agreed that improvement in Grand Lake water clarity is desirable. The Commission strongly encourages all interested stakeholders to work together to further identify the causes of reduced clarity and to explore options for identifying and implementing reasonable and effective measures to improve clarity, consistent with the other factors noted in the narrative standard. The Commission anticipates that these efforts may result in a proposal for a revised site-specific numerical clarity standard for Grand Lake at a later date.

Concerns have been raised regarding the potential impact of the proposed clarity standard on the exercise of water rights. The Commission recognizes that Section 25-8-104, C.R.S. states in part that "Nothing in this article [the Colorado Water Quality Control Act] shall be construed, enforced or applied so as to cause or result in material injury to water rights." If non-attainment of the numerical clarity standard is determined to be caused by the valid exercise of those water rights and the exceedance cannot be eliminated in a manner consistent with C.R.S. 25-8-104, the Commission would consider adoption of a revised site-specific standard as provided in section 31.7(1)(b)(ii). The Commission is hopeful that options can be identified to improve Grand Lake clarity in a manner consistent with section 25-8-104. The Commission is not determining in this hearing precisely what types of options and alternatives are or are not consistent with section 25-8-104. The Commission believes that that issue is better addressed in the course of a process that more fully examines the causes of current clarity limitations on Grand Lake and the options for mitigating identified impacts.

While stating that it did not oppose a 4 meter clarity standard for Grand Lake, the Colorado Division of Wildlife noted that it is important that efforts to improve clarity in Grand Lake consider potential effects on recreational fisheries. The Commission intends that potential positive or negative impacts on aquatic life in Grand Lake be taken into account in implementing the narrative standard now being adopted, and in any efforts to consider potential refinement of the numerical standard now being adopted with a delayed effective date.

The Commission believes that this is an appropriate first step toward protecting Colorado's high quality water resources in a manner consistent with law and regulation. As with all standards, the clarity standards for Grand Lake are subject to periodic review, and the Commission expects to revisit this issue in future review cycles.

R. Trout Unlimited, Blue and Eagle River Basins—Outstanding Water Designation

Based on evidence that shows that water quality meets the requirements of 31.8(2)a and the presence of Colorado River cutthroat trout, the Outstanding Water (OW) designation was added to the new Eagle River segment 10b: Abrams Creek, including all tributaries and wetlands, from the source to the eastern boundary of the United States Bureau of Land Management lands and the new Blue River Segment 4b: North Fork of the Swan River, including all tributaries and wetlands, from the source to the confluence with the Swan River. The Commission understands that existing land uses are in place in these watersheds. The evidence demonstrates that these existing land uses are compatible with the OW designation since the current high level of water quality has been attained with these uses in place. It is the Commission's intent that this OW designation should not be used to establish additional permit requirements for existing uses within this area.

S. Keystone, Blue River Basin – Metals Standards

Keystone Resort (Keystone) proposed resegmentation of waters in the Snake River watershed and sitespecific standards for Camp Creek and its tributaries.

Blue River segment 6: The Commission moved Jones Gulch from segment 6 to segment 8 based upon monitoring data collected by Keystone which showed that Jones Gulch meets table value standards for metals. The Commission adopted re-segmentation of segment 6 by renumbering segment 6 as segment 6 and establishing segment 6b based on recognized differences in water quality characteristics between the Snake River and the Camp Creek watershed which is located within the Keystone Ski Area. Segment 6b is now the mainstem of Camp Creek, including all tributaries and wetlands from the source to the confluence with the Snake River.

Site-specific standards for dissolved zinc were adopted for Camp Creek based upon the use of the recalculation procedure. Despite the habitat limitations in Camp Creek, and the fact that it currently does not support a fish population, under a modified recalculation approach the recalculation included species expected to occur in the Blue River Basin, including sensitive fish species such as mottled sculpin. The four most sensitive genera used to calculate the site-specific standards included *Cottus, Oncorhynchus, Salmo*, and *Ranatra*. The recalculated hardness-based equations are as follows:

zinc (acute) =
$$0.978*e^{0.8537(ln \text{ Hardness})+1.5227}$$

zinc (chronic) = $0.986*e^{0.8537(ln \text{ Hardness})+1.3519}$

The recalculated standards for zinc are intended to be fully protective of the aquatic life use in Camp Creek. Keystone will implement drainage and snowmaking system improvements including plumbing modifications and changes in management practices to further reduce the amount of water transferred from the snowmaking system to Camp Creek. Keystone is also working with the NWCCOG and other interested stakeholders on the investigation and potential implementation of measures to reduce acid mine drainage impacts from the Peru Creek tributary of the Snake River which will reduce metals concentrations in the snowmaking water supply. If, after these measures have been implemented, it is determined that the recalculated standards are not attainable or if significant additional water quality improvement has been achieved, the Commission will revisit the appropriate standards for Camp Creek.

<u>Blue River segment 8:</u> Monitoring results for water samples collected from 2003 through 2007 show that Jones Gulch meets table value standards. The Commission therefore moved Jones Gulch from Segment 6 to Segment 8.

T. <u>Eagle Mine, Eagle River Basin—Metals Standards</u>

The Hazardous Materials and Waste Management Division and USEPA Superfund Program (Superfund Proponents) proposed site-specific zinc, copper and cadmium standards for segments on the Eagle River within the Eagle Mine Superfund Site. Similarly, CBS Operations Inc (CBS) (formerly Viacom International Inc) proposed a different set of site-specific zinc, copper and cadmium standards for segments on the Eagle River within the Eagle Mine Superfund Site.

After review of the evidence submitted, the Commission adopted the Superfund Proponents' modified proposal for site-specific standards for the Eagle River Segments 5a, 5b, 5c and 7b as described below. These segments are impacted by historical mining activities at the Eagle Mine Superfund Site.

Zinc: A recalculation procedure was used for the aquatic species expected to occur in these segments of the Eagle River. After extensive review of available biological data and toxicity information, the recalculation was based on the following four most sensitive species that are expected to occur in these segments of the Eagle River: Cottus bairdi (Mottled Sculpin), Oncorhynchus (Rainbow and Cutthroat Trout), Salmo trutta (Brown Trout) and Ranatra elongata (Water Scorpion). The resulting site-specific recalculated hardness-based equations are:

Acute = $0.978 * e^{0.8537[ln(hardness)]+1.4189}$

Chronic = $0.986 * e^{0.8537[ln(hardness)]+1.2481}$

Because these equations rely on Sculpin as the most sensitive species, they are referred to as "sculpin equations." An attainability analysis was conducted which showed that it is not feasible to achieve a level of cleanup that would result in attainment of the sculpin equations in Segments 5a, 5b and 7b on a year-round basis. Additional remediation projects have been identified that can be performed at the site. The analysis shows that the identified remediation projects can be expected to result in additional zinc load reduction during March and April, when metals' loading is at its peak. When compared with the species toxicity information, it is clear that the feasible reductions still result in zinc levels that would exceed the standards based on the sculpin equation at some locations during some months. A modified species list without sculpin provided an equation that is based on the following four most sensitive species: Oncorhynchus (Rainbow and Cutthroat Trout), Salmo trutta (Brown Trout), Ranatra elongata (Water Scorpion) and Limnodrilus hoffmeisteri (Worm). The resulting recalculated hardness-based equations are:

Acute = $0.978 * e^{0.8537[ln(hardness)]+2.1302}$

Chronic = $0.986*e^{0.8537[ln(hardness)]+1.9593}$

Because these equations rely on rainbow trout as the most sensitive species, they are referred to as "rainbow equations."

The biological goal for the Eagle Mine Superfund Site is a healthy brown trout fishery. Concurrent biological and water quality monitoring has shown that to achieve that goal, zinc must be maintained at levels better than those indicated by laboratory-based zinc toxicity studies with brown trout, probably because of combined effects with copper. On-going monitoring suggests that zinc and copper levels currently achieved by the cleanup are too high in March and April to maintain a healthy brown trout population. The equations based on a modified species list (rainbow equations) are incrementally more stringent than the equations based on brown trout and, at this site, offer a way to address this uncertainty and provide an adequate buffer for brown trout. These levels cannot be attained without additional remediation at the Eagle Mine Superfund Site.

The equations which represent the highest attainable water quality were applied by the Commission when and where the attainability analysis indicated they could be met. The rainbow equations were applied by the Commission to Segments 5a year-round and to segments 5b and 7b from January 1 through April 30. The sculpin equations were applied by the Commission to segment 5c year-round and to segments 5b and 7b from May 1 through December 31.

<u>Copper:</u> Similar to zinc, a recalculation procedure was conducted based on the species that are expected to occur at the site. The resulting species list includes the following as the four most sensitive species: *Ephoron virgo* (Mayfly), *Tubifex tubifex* (Worm), *Plumatella emarginata* (Bryozoan), and *Oncorhynchus* (Rainbow and Cutthroat Trout). The resulting recalculated hardness-based equations are:

Acute = $0.96 * e^{0.9801[ln(hardness)]-1.5865}$

Chronic = $0.96 * e^{0.5897[ln(hardness)]-0.4845}$

Because these equations rely on *Ephoron virgo* as the most sensitive species, they are referred to as "Ephoron equations." These recalculated copper standards are attainable and were applied to Segments 5b, 5c and 7b.

For Segment 5a, an attainability analysis was conducted which showed that it is not feasible to reduce copper loads to a level that would result in attainment of the Ephoron equations. The majority of the copper load originates from upstream sources that cannot be controlled at the site. A modified species list, without Ephoron provided an equation that is based on the following four most sensitive species: *Tubifex tubifex* (Worm), *Plumatella emarginata* (Bryzoan), *Oncorhynchus* (Rainbow and Cutthroat Trout and *Lumbriculus variegatus* (Worm). The resulting modified hardness-based equations are:

 $Acute = 0.96 * e^{0.9801[ln(hardness)] - 1.1073}$

Chronic=0.96*e^{0.5897[ln(hardness)] - 0.0053}

Because these equations rely on tubifex worms as the most sensitive species, they are referred to as "tubifex equations." The tubifex equations were applied to Segment 5a.

<u>Cadmium:</u> The Commission had previously established an acute cadmium equation "with trout" in Regulation 31. That standard already applies to Segments 5a, 5b, 5c and 7b and continues to be appropriate and attainable. Therefore, no changes were made to the acute cadmium standard. However, using a revised acute/chronic ratio that was previously approved by both EPA and the Colorado Division of Wildlife for the Arkansas River and adopted by the Commission, a revised chronic cadmium equation was derived, as follows:

Chronic = $(1.101672-[(ln(hardness)*(0.041838)])* e^{(0.7998 [ln hardness)]-3.1725)}$

This site-specific chronic Cadmium equation was applied to Segments 5a, 5b, 5c and 7b.

U. <u>Jackson County, North Platte River Basin—Metals Standards</u>

Jackson County Water Conservancy District proposed an ambient quality-based total recoverable iron standard of 1,845 ug/L for North Platte River Basin segments 3, 4 and 5b. This proposal was withdrawn prior to the rulemaking hearing; however, the Commission does recognize that the Coalmont Formation that underlies the North Platte Basin is a source of geologic iron. However, there is a need for additional information to fully characterize current iron levels and establish what anthropogenic factors might be at play. The Commission urges the Jackson County Water Conservancy District to work with the Division to re-examine the segmentation and develop information to support a joint proposal for ambient quality-based total recoverable iron standards where appropriate for the next basin-wide review in 2013.

V. Seneca Coal Company, Yampa River Basin

The Commission adopted a CS-II temperature standard for Segment 13b. The Commission adopted WS-II temperature standards for Segments 13d and 13e, while recognizing that uncertainty remains due to limited data about temperature and the aquatic community. It is the Commission's intent that the Division, Seneca and other interested parties work to resolve the uncertainty for these segments by the next basin-wide review. (See Section L)

The Commission also granted type iii temporary modifications for total recoverable iron set at "existing quality" for Segments 13d and 13e (expiration: 5/31/2011). The uncertainty is based on whether the high ambient levels of iron in these segments are caused by natural or irreversible man-induced causes. It is the intention of the parties to preserve the status quo during the term of the temporary modification, i.e., Seneca will not change its operations so as to adversely affect the quality of its discharges for total recoverable iron.

W. USFS, Yampa River Basin—Recreation Use Classification

The USFS conducted a reasonable level of inquiry to identify the recreational uses on First and Elkhead Creeks and presented their findings in a Recreation UAA. This information showed that no existing primary recreation uses are occurring on portions of segment 20, nor is there the potential for primary contact recreation uses to occur on these same reaches. Therefore, the Commission established a new segment 20b with a Recreation N classification (E. coli=630/100mL), based on changes in stream access and use characteristics. This new segment consists of the mainstem of First Creek from the eastern boundary of state lands in California Park to the confluence with Elkhead Creek as well as the mainstem of Elkhead Creek from the eastern boundary of state lands in California Park to the National Forest boundary. Consequently, the Commission revised the segment description of 20a, to exclude specific listings in segment 20b. In addition, the Commission revised the Recreation use classification of segment 20a from Class 1a to Recreation Class U (E. coli=126/100mL), due to the lack of a reasonable level of inquiry about existing recreational uses and a lack of a completed use attainability analysis having been completed for this segment.

PARTIES TO THE RULEMAKING

- 1. Jackson County Water Conservancy District
- 2. Medicine Bow-Routt National Forests
- 3. Seneca Coal Company
- 4. Northwest Colorado Council of Governments and Grand County
- 5. The Grand County Water and Sanitation District #1, the Winter Park West Water and Sanitation District, The Fraser Sanitation District and The Winter Park Sanitation District
- 6. Keystone Resort
- 7. Trout Unlimited and Colorado Trout Unlimited
- 8. Hazardous Materials and Waste Management Division and USEPA Superfund Program
- 9. CBS Operations Inc.
- 10. Shell Frontier Oil and Gas, Inc.
- 11. Tri-State Generation and Transmission
- 12. Town of Palisade
- 13. CAM-Colorado LLC and CAM Mining LLC
- 14. Public Service Company of Colorado, a Colorado corporation
- 15. Colorado River Water Conservation District
- 16. Trapper Mining, Inc.
- 17. Town of Minturn
- 18. Colorado Division of Wildlife
- 19. City of Grand Junction
- 20. Southeastern Colorado Water Conservancy District
- 21. Twenty Mile Coal Company
- 22. Eagle River Watershed Council, Inc.

- 23. ERWC Eagle Mine Ltd. and John Woodling
- 24. Ginn Entities (Ginn Battle North, LLC, Ginn Battle South, LLC, Ginn-LA Battle One, Ltd., LLLP, and Ginn-LA Battle One A, LLC)
- 25. Northern Colorado Water Conservancy District
- 26. Eagle River Water & Sanitation District
- 27. Upper Eagle Regional Water Authority
- 28. Eagle Park Reservoir Company
- 29. Vail Associates, Inc.
- 30. Black Diamond Minerals, LLC
- 31. U. S. Environmental Protection Agency (EPA), Region 8
- 32. United States Department of Agriculture Forest Service, Arapaho-Roosevelt National Forests, Sulphur Ranger District
- 33. Hot Springs Lodge and Pool
- 34. White River National Forest
- 35. U.S. Fish and Wildlife Service
- 36. City of Aurora

33.45 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE DECEMBER 2009 RULEMAKING REGARDING TEMPORARY MODIFICATIONS FINAL ACTION FEBRUARY 8, 2010; EFFECTIVE DATE JUNE 30, 2010

The provisions of C.R S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the Commission reviewed the status of temporary modifications to determine whether the temporary modification should be modified, eliminated or extended.

<u>Ammonia:</u> Temporary modification of the ammonia standard on Yampa River segment 13d was deleted because the Town of Hayden's permit had recently been reissued. Compliance schedules in recently issued permits are adequate to address any necessary treatment plant upgrade issues.

Other Parameters: The temporary modifications of the iron standard for Yampa River segments 13d and 13e were reviewed. The Commission took no action on these temporary modifications which will expire 12/31/2011 and will be reviewed again in the December 2010 Temporary Modification hearing.

PARTIES TO THE RULEMAKING

- 1. City of Grand Junction
- City of Colorado Springs and Colorado Springs Utilities
- 3. Tri-Lakes, Upper Monument, Security and Fountain Wastewater Treatment Facilities
- 4. Paint Brush Hills Metropolitan District
- 5. Pueblo West Metropolitan District
- 6. City of La Junta
- 7. Seneca Coal Company
- 8. Tri-State Generation and Transmission Association
- 9. Plum Creek Wastewater Authority
- 10. Centennial Water and Sanitation District
- 11. City and County of Broomfield
- 12. City of Fort Collins
- 13. Metro Wastewater Reclamation District
- 14. City of Black Hawk and the Black Hawk/Central City Sanitation District

33.46 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE JULY 2010 RULEMAKING REGARDING TEMPORARY MODIFICATIONS; EFFECTIVE DATE NOVEMBER 30, 2010

The provisions of C.R S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

The Commission has decided to delay the basin-wide review of water quality classifications and standards for this basin until June 2014, to accommodate an issue-specific rulemaking for nutrient criteria in June 2011. Consistent with that decision, the Commission has also decided to extend the effective date for the Grand Lake clarity standard to January 1, 2015.

PARTIES TO THE RULEMAKING HEARING

- 1. Town of Avon
- 2. City of Black Hawk and Black Hawk/Central City Sanitation District
- 3. Northern Colorado Water Conservancy District and the Municipal Subdistrict, Northern Colorado Water Conservancy District
- 4. City of La Junta
- 5. XTO Energy, Inc.
- 6. City of Pueblo
- 7. City of Colorado Springs and Colorado Springs Utilities
- 8. U.S. Environmental Protection Agency

33.47 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE DECEMBER 2010 RULEMAKING REGARDING TEMPORARY MODIFICATIONS FINAL ACTION JANUARY 10, 2011; EFFECTIVE DATE JUNE 30, 2011

The provisions of C.R S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the Commission reviewed the status of temporary modifications to determine whether the temporary modification should be modified, eliminated or extended.

Total Recoverable Iron

A. <u>Dry Creek, Yampa River segment 13d</u>

Seneca Coal Company proposed revisions to Yampa segment 13d. Based on information on the record that characterized the pre-mining condition, the Commission adopted ambient-based iron standards. The chronic ambient-based standard for Dry Creek was calculated considering pre-mining data collected by Seneca Coal Company from three available sites in the segment (WSH7, WSHF1, and WSD5). The Commission removed the temporary modification for iron for segment 13d and adopted a new seasonal ambient-based chronic standard for iron for segment 13d as follows:

In order to assure that the same methodology is used when assessing attainment of these standards in the future, Section 33.6(4) was added to the regulation to record the locations that are to be used. Subsection 33.6(4)(a) establishes the locations for Dry Creek. Approximately equal datasets from each of these sites is to be aggregated:

- Seneca II-W Stream Site 7 on Hubberson Gulch (WSH7): located in the middle reaches of Hubberson Gulch
- Seneca II-W Flume Site 1 on Hubberson Gulch (WSHF1): located on Hubberson Gulch just upstream of its confluence with Dry Creek
- Seneca II-W Stream Site 5 on Dry Creek (WSD5): located in the middle reaches of Dry Creek

B. <u>Sage and Grassy Creeks, Yampa River segment 13e</u>

Given the presence of two individual creeks in segment 13e, with different characteristics, the Commission took separate actions on each creek.

<u>Sage Creek:</u> Seneca Coal Company proposed revisions to Yampa segment 13e. Based on information on the record that characterized the pre-mining condition, the Commission bifurcated Sage Creek and adopted ambient-based iron standards for upper portion, with a dividing line at the west border of Section 18, T5N, R87W. The chronic iron ambient-based standard for upper Sage Creek was calculated to be 1250 ug/L(Trec). The iron standard for the lower portion remains 1000 ug/L (Trec).

In order to assure that the same methodology is used when assessing attainment of these standards in the future, Section 33.6(4) was added to the regulation to record the locations that are to be used. Subsection 33.6(4)(b) establishes the assessment location for upper Sage Creek.

 Yoast Stream Site 2 on Sage Creek (YSS2): located upstream of the west border of Section 18, T5N, R87W

<u>Grassy Creek:</u> Seneca also proposed ambient-based iron standards for Grassy Creek. The upper portion of this area was mined in the 1970's by the Rockcastle Coal Company (Grassy Gap Mine), which obtained bond release and terminated its NPDES permit in 1993. Seneca began its mining operation in the upper portion of the basin in 1998 and the site is currently in the reclamation process. Seneca proposed that the Commission establish ambient-based iron standards based on 1993-1998 water quality data. The Commission determined that Seneca's evidence was insufficient to characterize natural or irreversible man-induced conditions for Grassy Creek. As a result, the Commission declined to adopt ambient-based iron standards, but extended the temporary modification for iron to 12/31/2012. The Commission will consider Seneca's plan to eliminate the need for a temporary modification at the December 2011 temporary modification hearing.

PARTIES TO THE RULEMAKING HEARING

- 1. Paint Brush Hills Metropolitan District
- 2. Tri-State Generation and Transmission Association
- 3. Seneca Coal Company
- 4. Mountain Water and Sanitation District
- 5. City of Grand Junction
- 6. Colorado Division of Wildlife
- 7. City of Boulder
- 8. U. S. Environmental Protection Agency
- 9. City of Colorado Springs and Colorado Springs Utilities

33.48 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE JUNE 13, 2011 RULEMAKING REGARDING TEMPORARY MODIFICATIONS; EFFECTIVE DATE JANUARY 1, 2012

The provisions of C.R S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

The Commission's decision to delay consideration of nutrient criteria until March 2012 resulted in cancelation of the December 2011 review of temporary modifications. Accordingly, the Commission considered the expiration dates of all the temporary modifications expiring on or before December 31, 2012 in a written comment rulemaking. The Commission extended the expiration date of the following temporary modification to December 31, 2013. It will be reviewed again in a Temporary Modification hearing in December 2012.

Yampa River segment 13e (Fe).

33.49 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE DECEMBER 10, 2012 RULEMAKING; FINAL ACTION JANUARY 14, 2013 EFFECTIVE DATE JUNE 30, 2013

The provisions of C.R S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the Commission reviewed the status of temporary modifications scheduled to expire before December 31, 2014, to determine whether the temporary modification should be modified, eliminated or extended.

Temporary modifications of 3 standards on 3 segments were reviewed. The Basic Standards Statement of Basis for the 2010 hearing records the Commission's intent regarding temporary modifications. (see 31.48 at I.A)

Since temporary modifications have no impact on other aspects of Colorado's water quality management program such as the 303(d) list, the Non-point Source Program or the Total Maximum Daily Load (TMDL) Program, it is fitting that temporary modifications only be used where there are permitted discharges that would face unreasonable consequences in the absence of a temporary modification (e.g., a permit).

The Commission took no action on the temporary modifications on the following segments which are receiving waters for permitted discharges. These temporary modifications will expire 12/31/2013.

Eagle River segments 8 and 9a

Grassy Creek, Yampa River segment 13e: Seneca Coal Company proposed extending the temporary modification for iron for Grassy Creek. The Commission considered Seneca's plan to eliminate the need for the temporary modification. Seneca Coal is working to resolve uncertainty and is on schedule to address this segment at the regularly scheduled Basin hearing (June 2014). The Commission extended the expiration date to 12/31/2014, to coincide with the next basin review.

PARTIES TO THE RULEMAKING HEARING

- 1. City of Pueblo
- 2. Seneca Coal Company
- 3. Tri-State Generation and Transmission Association
- 4. Eagle River Water and Sanitation District
- 5. Board of County Commissioners for the County of Gunnison, Colorado
- 6. Colorado Parks and Wildlife
- 7. High Country Citizens' Alliance
- 8. Bill Thiebaut, DA for 10th Judicial District and the Office of the DA for the 10th Judicial District
- 9. City of Colorado Springs
- 10. Town of Crested Butte
- 11. Upper Gunnison River Water Conservancy District
- 12. U.S. Energy Corp.
- 13. Gunnison County Stockgrowers Association, Inc.
- 14. Environmental Protection Agency
- 15. Cherokee Metropolitan District
- 16. Fountain Sanitation District
- 17. Lower Fountain Metropolitan Sewage Disposal District
- 18. Monument Sanitation District
- 19. Palmer Lake Sanitation District
- 20. Town of Monument
- 21. Academy Water and Sanitation District
- 22. Tri-Lakes Wastewater Treatment Facility
- 23. Town of Palmer Lake
- 24. Woodmoor Water and Sanitation District No. 1
- 25. Upper Monument Creek Regional Wastewater Treatment Facility

33.50 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE APRIL 8, 2013 RULEMAKING; FINAL ACTION MAY 13, 2013 EFFECTIVE DATE SEPTEMBER 30, 2013

The provisions of C.R S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

In August of 2005, the Commission adopted revisions to the Basic Standards and Methodologies for Surface Waters (Regulation #31) to add a Water + Fish (W+F) table value standard for chronic arsenic of 0.02 micrograms per liter (μ g/L). W+F standards are numeric human health-based water quality standards that are calculated protective values that take into account the combined exposure from the pollutant in drinking water and the pollutant accumulated in fish flesh. This criterion automatically went into effect for Aquatic Life Class 1 waters which also have a Domestic Water Supply use, when the changes to the Basic Standards became effective. It was also adopted on a segment by segment basis for Aquatic Life class 2 waters with Domestic Water Supply where the Commission determined there are fish of a catchable size of species that are normally consumed. Because of the complicated nature of the arsenic standards, specific values were added to the basin tables in the basin hearings between 2006 and 2009.

In this hearing, the Commission adopted temporary modifications for W+F chronic arsenic where a permitted discharger with a water quality–based effluent limit compliance problem exists. The adopted temporary modification is listed in the regulation tables as "As(ch)=hybrid". An explanation of the temporary modification and its expected implementation into control requirements, such as Colorado Discharge Permit System (CDPS) effluent limitations, is described in 33.6(2)(d). The temporary modification was established by the Commission to allow for a temporarily less stringent application of the chronic arsenic standard in control requirements for both existing discharges and new or increased discharges.

For discharges existing on or before 6/1/2013, the temporary modification adopted for W+F chronic arsenic is "current condition", expiring on 12/31/2021. The Commission intends that, when implementing the temporary modification of "current condition" in a CDPS permit, the Division will assess the current effluent quality, recognizing that it changes over time due to variability in treatment facility removal efficiency and influent loading from natural or anthropogenic sources, and due to changes in the influent flow and concentration over time. Maintaining the current condition will include maintaining permitted total arsenic loading to a treatment facility from arsenic contributors at the levels existing on the effective date of the temporary modification, while expressly allowing for variability in such loading due to changes in effluent quality as described above and due to changes in the influent flow and concentration over time within the permitted design flow of that facility. The Commission understands that the Division's past practice implementing this requirement in permits has been through reporting regarding the arsenic loading to the facility, and not through numeric effluent limitations. The Commission intends that the Division will continue this practice. For facilities that lack enough representative data to quantify arsenic loading, the permittee may satisfy reporting requirements through narrative descriptions of potential sources of arsenic. No permit action shall be approved that allows an increase in permitted total arsenic loading to a treatment facility. The expiration date of the temporary modification was set at 12/31/21 to allow for CDPS permits that are issued prior to the effective date of anticipated changes to the chronic arsenic standard in the 2016 Basic Standards Rulemaking to not have the temporary modification expire within the term of a permit. The Commission adopted this temporary modification to allow time for the Division, dischargers and stakeholders to continue a workgroup process to resolve the uncertainty regarding the appropriateness of the W+F chronic arsenic standard of 0.02 µg/L with respect to a technologically feasible level of treatment.

For new or increased discharges that commence on or after 6/1/2013, the temporary modification adopted is As(ch) = 0.02-3.0 µg/L (Trec), expiring on 12/31/2021. The Commission decided that since the technologically achievable arsenic level is less stringent than the calculated W+F criterion, the temporary modification for new or increased discharges will be a range of 0.02-3.0 µg/L. The first number in the range is the health-based value, based on the Commission's established methodology for human healthbased standards that protect against the combined exposure of drinking water and eating fish. The second number in the range is the Commission's initial determination of a technologically achievable value for arsenic, set at 3.0 µg/L. Control requirements, such as discharge permits 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 during the effective period for this temporary modification. The expiration date of the temporary modification was set at 12/31/21 to allow for CDPS permits that are issued prior to the effective date of anticipated changes to the chronic arsenic standard in the 2016 Basic Standards Rulemaking to not have the temporary modification expire within the term of a permit. The Commission adopted this temporary modification to allow time for the Division, dischargers and stakeholders to continue a workgroup process to resolve the uncertainty regarding the appropriateness of the W+F chronic arsenic standard of 0.02 µg/L with respect to a technologically feasible level of treatment.

The technologically feasible level of 3.0 μ g/L for arsenic is based upon testimony heard by the Commission at the December 13, 2011 Emergency Revisions to Regulation #38. At the December 13, 2011 hearing, the Commission determined, as a practical manner, that 3.0 μ g/L is the lowest level that is technologically achievable for common types of water treatment facilities. At the April 8, 2013 Rulemaking, the Commission heard testimony that concurred with the finding from December 13, 2011 that an initial reasonable lower limit of treatment technology for arsenic is 3.0 μ g/L, pending further investigation by the Division, dischargers and stakeholders. The Division intends to address the uncertainty of the W+F chronic arsenic standard with respect to a technologically feasible level of treatment through a continued workgroup process, and propose a revised W+F chronic arsenic standards as part of the 2016 Basic Standards Rulemaking Hearing

Temporary modifications were adopted on the following segments. The segments identified have the previously adopted W+F chronic arsenic standard of 0.02 µg/L and an identified CDPS permit or permits that discharge immediately to or directly above the identified segment.

Upper Colorado River 3

Upper Colorado River 4

Upper Colorado River 6a

Upper Colorado River 7a

Upper Colorado River 7b

Upper Colorado River 8

Upper Colorado River 10a

Upper Colorado River 10b

Blue River 1

Blue River 2b

Blue River 3

Blue River 4a

Blue River 8

Blue River 14

Eagle River 1

Eagle River 3

Eagle River 4

Eagle River 5b

Eagle River 6

Eagle River 8

Eagle River 9a

Eagle River 9b

Eagle River 10a

Eagle River 10b

Roaring Fork 1

Roaring Fork 2

Roaring Fork 3a

Roaring Fork 6

Roaring Fork 8

Roaring Fork 9

Roaring Fork 10

North Platte River 4a

North Platte River 4b

North Platte River 5a

North Platte River 5b

Yampa River 1a

Yampa River 2c

Yampa River 3

Yampa River 6

Yampa River 8

Yampa River 13a

Yampa River 13c Yampa River 13f

PARTIES TO THE RULEMAKING HEARING

- 1. Colorado Mining Association
- 2. Union Gold, Inc.
- 3. Colorado Department of Transportation
- 4. City of Colorado Springs and Colorado Springs Utilities
- Town of Crested Butte
- 6. Mountain Coal Company
- 7. Centennial Water and Sanitation District
- 8. MillerCoors, LLC
- 9. Plum Creek Wastewater Authority
- 10. Tri-State Generation & Transmission Association
- 11. Climax Molybdenum Company
- 12. Littleton/Englewood Wastewater Treatment Plant
- 13. Eagle River Water and Sanitation District
- 14. City of Boulder
- 15. City and County of Denver
- 16. Parker Water and Sanitation District
- 17. U.S. Energy Corp.
- 18. U.S. Environmental Protection Agency
- 19. City of Greeley

33.51 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE DECEMBER 9, 2013 RULEMAKING REGARDING TEMPORARY MODIFICATIONS; FINAL ACTION MARCH 11, 2014 EFFECTIVE DATE JUNE 30, 2014

The provisions of C.R S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the Commission reviewed the status of temporary modifications scheduled to expire before December 31, 2015, to determine whether the temporary modification should be modified, eliminated or extended. Temporary modifications of 3 standards on 3 segments were reviewed.

Eagle River, segments 8 and 9a: The Commission deleted the temporary modifications of the temperature standards. These temporary modifications expired on 12/31/2013.

No Action: The temporary modification to the iron standard on Grassy Creek, Yampa River segment 13e, was reviewed. Seneca Coal Company presented evidence that progress is being made on the plan to resolve uncertainty. Seneca Coal Company is on schedule to address this segment at the regularly scheduled Basin hearing (June 2014).

PARTIES TO THE RULEMAKING HEARING

- 1. Rio Grande Silver, Inc.
- 2. Black Hawk/Central City Sanitation District and City of Black Hawk
- 3. Centennial Water & Sanitation District, City of Littleton, City of Englewood
- 4. Colorado Parks and Wildlife
- 5. Homestake Mining Company of California

- 6. Metro Wastewater Reclamation District
- 7. South Platte Coalition for Urban River Evaluation (SP CURE)
- 8. City of Boulder
- 9. Seneca Coal
- 10. Tri-State Generation and Transmission Association
- 11. City of Fort Collins
- 12. MillerCoors, LLC
- 13. Environmental Protection Agency
- 14. Barr Lake and Milton Reservoir Watershed Association
- 15. Plum Creek Water Reclamation Authority

33.52 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE JUNE 9, 2014 RULEMAKING; FINAL ACTION AUGUST 11, 2014; EFFECTIVE DATE DECEMBER 31, 2014

The provisions of C.R S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

A. Waterbody Segmentation

The Commission deleted, renumbered, and/or created new segments to facilitate appropriate organization of waterbodies in this regulation. The following changes were made:

<u>Upper Colorado River Segment 5</u>: This segment was deleted and the lakes and reservoirs in this segment were moved to a new Segment 13 at the end of the subbasin to be consistent with the organization of lakes and reservoirs segments in other basins.

<u>Blue River Segment 1</u>: Based on the information presented by the Upper Blue Sanitation District (UBSD), the mainstem of the Blue River from the confluence with the Swan River to Dillon Reservoir was moved to new Segment 2c to simplify the segmentation of the Upper Blue River and to facilitate the adoption of appropriate nutrient standards.

<u>Blue River Segment 3</u>: This segment was deleted and the lakes and reservoirs in this segment were moved to a new Segment 22 at the end of the subbasin to be consistent with the organization of lakes and reservoirs segments in other basins. The waters previously in Segment 22 were renumbered to Segment 23 as a result.

<u>Eagle River Segments 9a and 9b</u>: The lower portion of Eagle River Segment 9a, the mainstem of the Eagle River from a point immediately below Squaw Creek to a point immediately below Rube Creek, was moved to a new Segment 9b to facilitate the adoption of appropriate temperature standards. Segment 9b was renumbered to 9c to facilitate this change.

Roaring Fork River Segment 3d: The following waters were moved from existing Segment 3a to a new Segment 3d: Cattle Creek, including all tributaries and wetlands, from the source to the most downstream White River National Forest boundary (39.467850, -107.065410). These waters were split into different segments to facilitate the adoption of an Outstanding Waters designation for Segment 3d.

Roaring Fork River Segment 10a and 10b: The following waters were moved from existing Segment 10 to a new Segment 10b: Mainstem of North Thompson Creek, including all tributaries and wetlands, from the source to the White River National Forest boundary (39.316522,-107.305749). Mainstem of Middle Thompson Creek, including all tributaries and wetlands, from the source to a point immediately below the confluence with the South Branch of Middle Thompson Creek (39.295749, -107.308788). These waters were split into different segments to facilitate the adoption of an Outstanding Waters designation for Segment 10b.

<u>Yampa River Segment 1b</u>: The lakes and reservoirs in this segment were moved to a new Segment 21 at the end of the subbasin to be consistent with the organization of lakes and reservoirs segments in other basins. Segment 1a was also changed to Segment 1 as a result.

<u>Yampa River Segment 2b</u>: The lakes and reservoirs in this segment were moved to a new Segment 22 at the end of the subbasin to be consistent with the organization of lakes and reservoirs segments in other basins. Segment 2c was also changed to Segment 2b as a result.

<u>Yampa River Segments 6 and 7</u>: The boundary of these two segments did not change, but the description was altered as it is not the Commission's practice to use the location of an outfall as a segment boundary. The boundary is now described as "a point 0.25 mile below County Road 27" instead of "the point of discharge of the Oak Creek wastewater treatment plant."

Yampa River Segments 13b, 13d, 13e, 13g, 13h, 13i, 13j: The Commission created new segments for a number of segments in the Yampa River sub-basin. Seneca Coal, Peabody Sage Creek Mining LLC, and Twentymile Coal, LLC collected seasonal water quality and biomonitoring data over two years from multiple drainages within Yampa River segments 13b, 13d, 13e. The upper reaches of segments 13b, 13d, and 13e (i.e., Cow Camp Creek, Bond Creek, Little Grassy Creek, Grassy Creek, Sage Creek, and Dry Creek) only flow seasonally, largely in response to spring snowmelt (March – July); the remainder of the year flow is greatly limited. The lower reaches of these segments have limited flow as well; spring flows are consistent, but summer and fall streamflow is primarily restricted to small sections of flowing water and/or isolated pools, likely freezing over in the winter months. The only exceptions to this flow regime are the mainstems of Fish, Foidel, and Middle Creeks, which normally maintain flow year-round, and select locations within lower Dry and Grassy Creeks which maintain sufficient pools to support hold-over populations of fish. The reaches of the steams with ephemeral flows have been included in segments 13d, 13e, 13g, 13h, 13i. The streams with perennial flows have been included in segments 13b and 13j.

<u>Yampa River Segments 22 and 23</u>: Elkhead Reservoir was moved to a new Segment 23. These waters were split into different segments to facilitate a revision of the Aquatic Life use from Cold 1 to Warm 1.

The following segment descriptions were edited to improve clarity, correct typographical errors, and correct spelling errors:

Upper Colorado River Segment: 6c and 13 Blue River Segment: 8 and 6b Eagle River Segments: 2, 5a and 11 Yampa River Segments: 8, 14, 15 and 18

B. Revised Aquatic-Life Use Classifications

<u>Yampa River Segment 23:</u> Based on a Use Attainability Analysis (UAA) prepared by Colorado Parks and Wildlife and the Colorado River Water Conservation District, the Commission adopted a change in the Aquatic Life use classification and standard from Cold 1 to Warm 1 and a new Yampa River Segment 23 for Elkhead Reservoir. Available temperature and fish data identify that the original classification of Elkhead Reservoir as a cold water lake was in error and that only warm water species are expected to occur due to natural and man-induced irreversible conditions.

Yampa River Segments 13b, 13g: Based on fish species expected to be present, temperature data, and other available evidence in a Use Attainability Analysis submitted by Seneca Coal, Inc., the Commission changed the aquatic life use classification for Yampa River segment 13b from Cold 1 to Warm 1. For Segment 13g the Commission maintained the aquatic life use classification of Warm 1. The Commission found that this was necessary to protect the fish collected in tributaries to Fish Creek in segment 13g, which included a round tail chub, a species that has been designated by Colorado Parks and Wildlife as a species of special concern. It is likely that the chub and other species use the streams in 13g when flow and habitat are present. Segments 13h, 13i, and 13j inherited their aquatic life use classifications as a result of re-segmentation.

C. Recreation Classifications and Standards

A review of the segments with an existing Recreation use classification showed that one segment had an incorrect E. coli standard to protect that use. The E. coli standard was corrected for the following segment:

Upper Colorado River Segment: 6a

D. Water Supply Use Classification and Standards

The Commission added a Water Supply use classification and standards where the evidence demonstrated a reasonable potential for a hydrological connection between surface water and alluvial wells used for drinking water. The Water Supply use classification and standards were added to the following segments:

Roaring Fork River Segment: 4 North Platte River Segment: 6 Yampa River Segment: 7

Numerous segments were missing the "(dis)" notation for the manganese water supply standard. These errors were corrected to "Mn(ch)=WS(dis)".

A molybdenum standard of 210 ug/l was applied to the following segments to protect the Water Supply use classification:

Blue River Segments: 14 and 15

Blue River Segment 13: The Commission adopted a narrative standard for segment 13 to protect water supply uses in downstream waters. It is the Commission's intent that permit effluent limits for sources in segment 13 are written to protect downstream uses.

E. Agriculture Standards

Molybdenum: In 2010, the Commission adopted a new standard for molybdenum to protect cattle from the effects of molybdenosis. The table value adopted at that time was 300 ug/l, but included an assumption of 48 mg/day of copper supplementation to ameliorate the effects of molybdenosis. State and local experts on cattle nutrition indicated that copper supplementation in the region is common, but is not universal. Therefore, copper supplementation assumption was removed from the equation, which yields a standard of 160 ug/l. The Commission expects that this value may be revised when data on the copper and molybdenum content of local forage becomes available. The Commission also notes that in light of EPA's disapproval of the 300 ug/l table value in the Basic Standards and Methodologies for Surface Water, the Commission intends to review this value during the next Basic Standards triennial review.

The Agriculture table value assumes that the safe copper:molybdenum ratio is 4:1. Food and water intake is based on a 273 kg (600 lb) feeder steer consuming 6.8 kg/day of dry matter and 20% of its body weight in water per day. Total copper and molybdenum intakes are calculated from the following equations:

Cu intake mg/day = [([Cu] forage, mg/kg) x (forage intake, kg/day)] + [([Cu] water, mg/l) x (water intake, L/day)] + (Cu supplementation, mg/day)

Mo intake $mg/day = [([Mo] \text{ forage}, mg/kg) \times (\text{forage intake}, kg/day)] + [([Mo] \text{ water}, mg/l) \times (\text{water intake}, L/day)] + (Mo supplementation, mg/day)$

The assumed values for these equations are as follows:

[Cu] forage = 7 mg/kg, [Mo] forage = 0.5 mg/kg, forage intake = 6.8 kg/day, [Cu] water = 0.008 mg/L, [Mo] water = 0.375 mg/L, water intake = 54.6 L/day, Cu supplementation = 0 mg/day, Mo supplementation = 0 mg/day.

A molybdenum standard of 160 ug/l was adopted for the following segments in Regulation 33 that have an Agriculture use classification, and where livestock or irrigated forage are present or expected to be present.

Upper Colorado River Segments: 1, 2, 3, 4, 6a, 6b, 6c, 7a, 7b, 7c, 8, 9, 10a, 10b, 10c, 11, 12 and 13

Blue River Segments: 1, 2a, 2b, 2c, 4a, 4b, 5, 6a, 6b, 8, 9, 10, 11, 12, 16, 17, 18, 19, 20, 21, 22 and 23

Eagle River Segments: 1, 2, 3, 4, 5a, 5b, 5c, 6, 7a, 7b, 8, 9a, 9b, 9c, 10a, 10b, 11, 12, 13 and 14 Roaring Fork River Segments: 1, 2, 3a, 3b, 3c, 3d, 4, 5, 6, 7, 8, 9, 10a, 10b, 11 and 12 North Platte River Segments: 1, 2, 3, 4a, 4b, 5a, 5b, 6, 7a, 7b, 8 and 9

Yampa River Segments: 1, 2a, 2b, 3, 4, 5, 6, 7, 8, 11, 12, 13a, 13b, 13c, 13d, 13e, 13f, 13g, 13h, 13i, 13j, 14, 15, 18, 19, 20a, 20b, 21, 22, and 23

The following segments have an Agriculture use classification, but livestock or irrigated forage are not expected to be present. A molybdenum standard of 160 ug/l was not applied to these segments to protect the Agriculture use classification:

Blue River Segments: 13, 14 and 15

<u>Upper Colorado Segment 8</u>: A site-specific molybdenum standard of 190 ug/l was adopted for this segment, which has an Agriculture use classification, and livestock and irrigated forage are present or expected to be present. This site-specific molybdenum standard is based on protection of a lactating cow (409 kg), which is the animal and life stage that is most sensitive to molybdenum, and site-specific factors appropriate for the Williams Fork area. The equation above and in the Regulation #31 Statement of Basis (2010, 31.48 H) was used with the following dietary and water intake values: [Cu] forage = 7 mg/kg, [Mo] forage = 0.5 mg/kg, forage intake = 10.2 kg/day (OSU, 2004), [Cu] water = 0.008 mg/L, [Mo] water = 0.375 mg/L, Cu supplementation = 0 mg/day, Mo supplementation = 0 mg/day. Water intake = 67.8 L/day (NRC, 2000), based on an ambient temperature of 80°C (ave. daily max. at Kremmling, CO).

F. Changes to Antidegradation Designation

Roaring Fork Segment 3d: The Commission adopted an Outstanding Waters (OW) designation for this segment based on evidence presented by WildEarth Guardians showing that water quality meets the requirements of 31.8(2)(a). The presence of designated Critical Cutthroat Trout Habitat by the State of Colorado proves the exceptional recreational or ecological significance of the waters. Outreach conducted by WildEarth Guardians demonstrated support for the change in designation, the outstanding nature of these waters and the need for the additional protection of the outstanding waters designation.

The Commission understands that existing land uses, including grazing, are in place in these watersheds. The evidence demonstrates that these existing land uses are compatible with the OW designation since the current high level of water quality has been attained with these uses in place. It is the Commission's intent that this OW designation should not be used to establish additional permit requirements for existing uses within this area.

Roaring Fork Segment 10b: The Commission adopted an Outstanding Waters (OW) designation for this segment based on evidence presented by Trout Unlimited showing that the criteria of 31.8(2)a has been met for these waters. In addition to meeting the water quality requirements of 31.8(2)a, these waters support Colorado River cutthroat trout, including key conservation populations in North and Middle Thompson Creek. The Colorado River cutthroat trout is listed as a species of concern in Colorado and is subject to a conservation agreement to prevent potential federal Endangered Species Act listing. The Commission notes that the outreach undertaken by Trout Unlimited as proponent of this designation helps to demonstrate broad support for the conclusion that these waters constitute an outstanding natural resource and that the additional protection provided by this designation is appropriate.

The Commission understands that existing land uses, including grazing, are in place in these watersheds. The evidence demonstrates that these existing land uses are compatible with the OW designation since the current high level of water quality has been attained with these uses in place. It is the Commission's intent that this OW designation should not be used to establish additional permit requirements for existing uses within this area.

<u>Yampa River Segments 13d, 13e, 13h, 13i, and 13j</u>: The Commission retained use protected designation for segments 13d and 13e, and segments 13h, 13i, and 13j inherited their use protected designations as a result of re-segmentation.

G. Ambient Standards

Ambient standards are adopted where natural or irreversible man-induced conditions result in exceedances of table value standards. The Commission reviewed the information that is the basis for these standards, as well as any new information that would indicate whether they are still appropriate, need to be modified, or should be dropped. In some cases, new ambient standards were adopted. The following segments have ambient-based standards that were revised:

Upper Colorado River Segments: 12 (Lake Granby) and 13 (Wolford Mountain)

North Platte River Segment: 9 (Lake John)

Yampa River Segments: 13b (Middle Creek) and 22 (Stagecoach Reservoir)

New ambient based standards were adopted for the following segments:

North Platte River Segment: 9 (South Delaney Lake)

Yampa River Segment: 2b (Pearl Lake)

Yampa River Segment 13b: Foidel Creek is achieving the table value standard for total recoverable iron which is 1000 ug/L with assessment locations specified in 33.6(4)(c), which the Commission adopted due to spatial variability in iron concentrations throughout the stream reach. Accordingly the Commission retained the 1000 ug/L total recoverable iron standard for Foidel Creek. The Commission updated the annual ambient-based standard on Middle Creek to a seasonal ambient-based standard for March-June of 2090 ug/L, based on the most recent five years of data. TVS applies for the remainder of the year for Middle Creek.

Yampa River Segments 13h and 13j: While the Commission did not adopt ambient based selenium standards proposed in this hearing on these segments, parties are encouraged to collect additional data to further evaluate the appropriateness of an ambient based selenium standard in the future.

H. Aquatic Life Ammonia and Metals Standards

New Table Value Standards: The zinc, zinc sculpin, and aluminum table values were revised in the 2010 Basic Standards hearing. The acute and chronic zinc, zinc sculpin, and aluminum equations in 33.6(3) were modified to conform to Regulation 31. The footnotes to the table values in 33.6(3) were renumbered to match the appropriate references. Footnote (4 old) was deleted and a new footnote 4 was added.

Zinc sculpin standards: In low-hardness situations (hardness below 102 mg/l), the zinc equation is not protective of mottled sculpin (Cottus bairdi), a native west-slope fish species. A review of existing hardness and fishery data showed numerous segments with low average hardness (<102 CaCO3 mg/l) and where the Colorado Division of Parks and Wildlife expects sculpin to be present. A sculpin-specific zinc equation was added to the following segments:

Blue River Segments: 13 and 18 Eagle River Segment: 3

Roaring Fork River Segment: 7
Yampa River Segment: 1

For the following segments where hardness could exceed 102 mg/l, both the zinc sculpin standard and the chronic zinc table value standard were adopted:

Upper Colorado River Segments: 1, 2, 3, 7b, 8, 10a, 10b and 10c

Blue River Segments: 1, 4a, 4b, 8, 14 and 17 Eagle River Segments: 1, 2, 4, 6, 7a and 8

Roaring Fork River Segments: 2, 5, 6, 10a and 10b Yampa River Segments: 2a, 2b, 3, 8, 13a, 18 and 19

I. Uranium Standards

At the 2010 Basic Standards rulemaking hearing, the Commission changed the Water Supply table value for uranium from 30 ug/l to a hyphenated standard of 16.8-30 ug/l. The Commission revised the language in 33.5(3)(c) to reflect the change to the basin-wide standard. A new section 33.5(3)(c)(i) was added to explain the hyphenated standard. Subsection 33.5(3)(d) was deleted because it was redundant with 33.5(3)(c).

J. Temporary Modifications

To remain consistent with the Commission's decisions regarding arsenic at 33.50, all existing temporary modifications for arsenic of "As(ch)=hybrid" (expiration date of 12/31/21) were retained. An arsenic temporary modification was added to the following segments, which had an existing or newly added chronic arsenic standard of 0.02 ug/l and a permitted discharger with a predicted water quality–based effluent limit compliance problem:

Upper Colorado River Segment: 10c Roaring Fork River Segment: 4 Yampa River Segment: 7

Where the Commission has adopted a narrative temporary modification of "current condition", the Commission intends that, when implementing the temporary modification in a CDPS permit, the permit conditions will reflect the current effluent quality, recognizing that it changes over time due to seasonal variability, change in the influent flow and the concentration over time.

Iron

Yampa River Segments 13d and 13i: The Commission adopted a narrative temporary modification for iron on the former segment 13e in the 2008 basin hearing and the temporary modification has remained in place. Since that time Peabody has been working on resolving the uncertainty surrounding the appropriate underlying standard. The Commission adopted a current conditions narrative temporary modifications on segments 13d and 13i (13i is a new segment that was formerly a part of 13e) until December 31, 2016. The Commission expects that Peabody will work with the Division and other interested stakeholders to develop a definitive plan to resolve the uncertainty for these segments for the December 2014 temporary modification hearing.

Selenium

Yampa River Segments 13b, 13d, 13e, 13g, 13i: Seneca Coal, Peabody, and Twentymile originally proposed numeric fish tissue-based site-specific standards for selenium for Yampa River segments 13b, 13d, 13e, 13g and 13i. In support of their proposal they provided data including in-stream selenium concentration and fish-tissue selenium concentrations along with proposed implementation methodologies. However, during the rulemaking process EPA issued new draft selenium criteria. In response to EPA's May 2014 draft selenium criteria, Seneca Coal, Peabody, and Twentymile withdrew their site-specific standard proposal and revised their proposal to a narrative "current conditions" temporary modification for selenium for these segments.

The Commission adopted a current conditions temporary modification for selenium for these segments. Peabody presented information that shows a demonstrated or predicted compliance problem for each of these segments. Additionally, the Commission found there was significant uncertainty regarding the water quality standard necessary to protect current and/or future uses, and that there is substantial uncertainty about the extent to which existing quality is the result of natural or irreversible human-induced conditions.

Molybdenum

Blue River Segment 14: The Commission adopted a temporary modification of the molybdenum standard for this segment of Mo(ch)="current conditions" (Exp. 12/31/16). The Commission recognizes that there is new toxicological information that should be included in recalculation of a human health-based criterion. Parties do not agree on the uncertainty factors that need to be included in the calculations. Since this issue is larger than a segment-specific issue, it is more appropriate to address this situation in the review of the Basic Standards and the expiration date was set to accommodate that schedule. There is also uncertainty regarding the extent to which existing quality in Blue River Segment 14 is the result of irreversible human-induced conditions due to forthcoming new treatment facilities at the Climax Mine. Climax also presented information that shows a predicted compliance problem and has submitted an adequate plan for eliminating the need for the temporary modification.

K. Temperature

Ambient temperature standards for lakes

In the 2008 triennial review, the WAT standard was found to be unattainable for a number of cold large lakes and reservoirs with apparently healthy cold-water fish populations. Because summertime temperature in the mixed layer for large lakes and reservoirs is very well correlated to the waterbody's elevation, the Commission adopted ambient temperature standards for large lakes wherever data were available to characterize a WAT and the thermal characteristics of the lakes and reservoirs were determined to be the result of natural conditions. As a result of setting ambient temperature standards, the adequate refuge defined in Regulation 31, Table 1, footnote 5(c)(iii) was assessed using the site-specific temperature standard, and many lakes with obvious dissolved oxygen issues were considered to have adequate refuge.

Footnote 5(c)(iii) states:

When a lake or reservoir is stratified, the mixed layer may exceed the criteria in Table 1 provided that an adequate refuge exists in water below the mixed layer. Adequate refuge depends on concurrent attainment of applicable dissolved oxygen standards. If the refuge is not adequate because of dissolved oxygen levels, the lake or reservoir may be included on the 303(d) List as "impaired" for dissolved oxygen, rather than for temperature.

To ensure that adequate refuge is defined in a way that protects the Aquatic Life use, the Commission adopted footnote "D" which was applied to the temperature standard for deep stratified lakes. Footnote "D" states "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", and was applied to the following lake segments:

Upper Colorado River Segment: 12 (Shadow Mountain and Lake Granby)

Upper Colorado River Segment: 13 (Wolford Mountain and Williams Fork Reservoirs)

Roaring Fork River Segment: 12 (Ruedi Reservoir)

Yampa River Segment: 22 (Pearl Lake, Stagecoach and Steamboat Reservoirs)

<u>Eagle River Segments 8, 9a, 9b and 9c</u>: In the 2008 hearing, the Commission adopted temperature standards for Eagle River Segments 8 and 9a. Due to the limited temperature and biological information available at the time, the Commission recognized that there was uncertainty regarding the appropriate temperature standards adopted in that hearing. Since 2008, Eagle River Water and Sanitation District (ERWSD) has collected temperature data in Segments 8 and 9a and has worked with Colorado Parks and Wildlife (CPW) to determine the aquatic species expected to occur in Gore Creek and the Eagle River.

In this hearing, based on information presented by ERWSD and CPW, the Commission adopted site-specific temperature standards for Eagle River segments 8, 9a, and 9b to protect the aquatic life use (31.7(1)(b)(iii)) and re-segmentation where appropriate (Section A). The spring shoulder season standards were adjusted to protect cutthroat trout spawning and incubation. The fall shoulder season standards were adjusted to protect brook and brown trout migration and spawning. The basis for these temperature standards is specific to the temperature and biological conditions in the Eagle River Segments 8, 9a, and 9b, and accounts for the seasonal temperature requirements for the various life stages of the aquatic species expected to occur in this area while recognizing that these segments include a transitional zone between Cold Stream Tier I and Tier II. This action is not intended to revise the biological goals for the Eagle River established by the Commission in 2008, regarding the Eagle Mine Superfund Site.

The Commission recognizes the high quality fishery that exists in these segments is economically important, yet is currently stressed and in recovery. Local stakeholders are actively working to protect and improve water quality including projects associated with urban runoff, stream and riparian restoration, hydrologic conditions, and the Eagle Mine Superfund Site. Future refinements of temperature standards for these segments may be warranted as more information becomes available regarding their natural and existing thermal regimes, and the temperatures needed to protect the aquatic species expected to occur.

Segment 8: The lower portion of this segment is currently designated a Gold Medal Fishery. Cutthroat, brook, brown and rainbow trout are all expected to occur in this segment. The Commission adopted site-specific chronic temperature standards based on a modification of Cold Stream Tier I table values

Segment 9a: This segment is impacted by metals contributions from historic mining. Cutthroat, brook, rainbow, and brown trout could occur in this segment. The Commission adopted site-specific chronic temperature standards based on a modification of Cold Stream Tier I table values.

Segment 9b: This segment is also impacted by metals contributions from historic mining. Rainbow and brown trout are expected to occur in this segment, and this area is a transition zone. Cutthroat and brook trout may use this segment seasonally, and when hydrologic conditions are favorable. The Commission adopted site-specific acute and chronic temperature standards based on a modification of Cold Stream Tier II table values.

Segment 9c: Segment 9b was renumbered to segment 9c, and retained its use classifications and Cold Stream Tier II temperature standards.

Yampa River Segments 13b, 13d, 13e, 13g, 13h, 13i, and 13j: Based on fish species expected to be present, temperature data, and other available evidence submitted by Peabody, Warm Stream Tier II temperature standards were retained for segments 13d and 13e, and were adopted for segments 13b and 13g. Segments 13h, 13i, and 13j inherited their Warm Stream Tier II temperature standards as a result of re-segmentation.

L. Nutrients

In March 2012, the Commission adopted interim nutrient values in the Basic Standards (Regulation 31) and created a new statewide control regulation (Regulation 85) to address nutrients in Colorado. Regulation 31.17 includes interim nutrient values for total phosphorus, total nitrogen, and chlorophyll *a* for both lakes and reservoirs, and rivers and streams. Due to the phased implementation approach adopted with these criteria (31.17(e)), the Commission adopted only total phosphorus and chlorophyll *a* standards at this time. Nitrogen standards were not considered as part of this rulemaking hearing, but will be considered in the next triennial review, currently scheduled for June, 2019.

Total phosphorus and chlorophyll *a* standards were adopted for waters upstream of all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012, and any non-domestic facilities subject to Regulation 85 effluent limits and discharging prior to May 31, 2012. A new section (4) was added at 33.5 describing implementation of the interim nutrient values into the tables at 33.6, and includes a table which lists these facilities and the segment to which they discharge.

- For segments located entirely above these facilities, nutrient standards apply to the entire segment.
- For segments with portions downstream of these facilities, *nutrient standards only apply above these facilities*. A footnote "C" was added to the total phosphorus and chlorophyll a standards in these segments. The footnote references the table of qualified facilities at 33.5(4).
- For segments located entirely below these facilities, nutrient standards do not apply.
- For rivers and streams segments, total phosphorus standards were adopted above the dischargers listed at 33.5(4) for segments with an Aquatic Life use. Chlorophyll *a* standards were adopted above the dischargers listed at 33.5(4) for segments with either an E, P, or U Recreation use classification.
- For lakes and reservoirs segments, total phosphorus and chlorophyll standards were adopted with a footnote "B" as these standards only apply to waterbodies larger than 25 acres surface area.

31.17(e)(ii) also allows the Commission to adopt numeric nutrient standards for Direct Use Water Supply (DUWS) lakes and reservoirs. No proposals were made by the Division to adopt standards based on this provision in this rulemaking.

31.17(e)(iii) also allows the Commission to adopt numeric nutrient standards for circumstances where the provisions of Regulation 85 are not adequate to protect waters from existing or potential nutrient pollution. No proposals were made to adopt standards based on this provision in this rulemaking.

Chlorophyll a standards were adopted for the following segments:

Upper Colorado River Segments: 1, 2, 3, 4, 6a, 7b, 8, 9, 10a, 11, 12 and 13 Blue River Segments: 1, 2a, 4a, 4b, 5, 6a, 6b, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 21, 22 and 23 Eagle River Segments: 1, 2, 3, 4, 6, 7a, 7b, 8, 10a, 10b, 11, 12, 13 and 14 Roaring Fork River Segments: 1, 2, 3a, 3c, 3d, 4, 5, 6, 7, 8, 9, 10a, 10b, 11 and 12 North Platte River Segments: 1, 2, 3, 4a, 4b, 5a, 8 and 9 Yampa River Segments: 1, 2a, 3, 5, 6, 7, 8, 13a, 13b, 13c, 13d, 13f, 13g, 13h, 14, 15, 18, 19, 20a, 21, 22 and 23

Total Phosphorus standards were adopted for the following segments:

Upper Colorado River Segments: 1, 2, 3, 4, 6a, 6b, 7a, 7b, 7c, 8, 9, 10a, 11, 12 and 13 Blue River Segments: 1, 2a, 4a, 4b, 5, 6a, 6b, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 21, 22 and 23 Eagle River Segments: 1, 2, 3, 4, 6, 7a, 7b, 8, 10a, 10b, 11, 12, 13 and 14 Roaring Fork River Segments: 1, 2, 3a, 3b, 3c, 3d, 4, 5, 6, 7, 8, 9, 10a, 10b, 11 and 12 North Platte River Segments: 1, 2, 3, 4a, 4b, 5a, 5b, 6, 7a, 7b, 8 and 9 Yampa River Segments: 1, 2a, 3, 4, 5, 6, 7, 8, 11, 12, 13a, 13b, 13c, 13d, 13e, 13f, 13g, 13h, 13i, 13j, 14, 15, 18, 19, 20a, 20b, 21, 22 and 23

<u>Blue River Segments 1, 2a, 2b and 2c:</u> Nutrient standards were adopted for Blue River Segment 1, as this segment is located entirely above qualified dischargers. Nutrient standards were adopted with a footnote "C" for Segment 2a, as the Upper Blue Sanitation District's (UBSD) lowa Hill Water Reclamation Facility is a qualified discharger listed at 33.5(4) and is located within this segment. Nutrient standards were not adopted for Blue River Segment 2b and new Segment 2c, as these segments are located entirely below the lowa Hill Water Reclamation Facility and nutrient standards do not apply.

The UBSD's South Blue River wastewater treatment facility is located within Blue River Segment 1. However, this facility discharges to groundwater and it is not subject to Regulation 85 nutrient limitations for surface water discharges. It is therefore not a qualified discharger listed at 33.5(4). If the nature of the discharge from UBSD's South Blue River wastewater treatment facility changes to include a discharge to surface water, this issue will be revisited to reflect such a change.

M. Direct Use Water Supply Sub-classification

Also in the March 2012 rulemaking hearing, the Commission adopted a sub-classification of the Domestic Water Supply Use called "Direct Use Water Supply Lakes and Reservoirs Sub-classification" (Regulation 31, at 31.13(1)(d)(i)). This sub-classification is for water supply lakes and reservoirs where there is a plant intake location in the lake or reservoir or a man-made conveyance from the lake or reservoir that is used regularly to provide raw water directly to a water treatment plant that treats and disinfects raw water. In this action today, the Commission has begun to apply this sub-classification and anticipates that it will take several basin reviews to evaluate all the reservoirs in the basin. The Commission adopted the DUWS sub-classification on the following reservoirs and added "DUWS" to the classification column in the standards tables. The public water systems are listed along with the reservoirs and segments.

Upper Colorado River Segment 12: Grand Lake (YMCA)

Upper Colorado River Segment 13: Ute Creek Reservoir (Climax – Henderson Mill)
Blue River Segment 22: Goose Pasture Tarn (Town of Breckenridge)
Roaring Fork River Segment 12: Leonard Thomas Reservoir (City of Aspen)

Roaring Fork River Segment 12: Wildcat Reservoir (Wildcat Ranch)

Yampa River Segment 22: Steamboat Lake (Steamboat Lake State Park)
Yampa River Segment 22: Steamboat Lake (Steamboat Lake State Park)

Yampa River Segment 22: Yampa River Holding Pond (PSCO OF CO - Hayden Station)

31.17(e)(iii) also allows the Commission to adopt numeric nutrient standards for Direct Use Water Supply ("DUWS") lakes and reservoirs. No standards were adopted based on this provision in this rulemaking.

N. Chromium III Standards

A review of the chromium III standards showed that standards to protect the Aquatic Life use classification may not be protective of the Agriculture use in some high-hardness situations. A chromium III standard of CrIII(ch)=100(Trec) was added to segments with Aquatic Life and Agriculture use classifications, but no Water Supply use. The acute chromium III standard associated with the Water Supply use is protective of the Agriculture use, but is not protective of the Aquatic Life use when hardness is less than 61 ug/I. For segments that have both Aquatic Life and Water Supply use classifications, a chronic chromium III standard of CrIII(ch)=TVS was added to all segments that did not previously have that standard. Changes were made to the following segments:

Upper Colorado River Segments: 3, 4, 6c, 7a, 7b, 7c, 9, 11, 12 and 13 Blue River Segments: 1, 6a, 6b, 11, 12, 13, 14, 16, 17, 19, 20, 21, 22 and 23 Eagle River Segments: 2, 3, 5a, 5b, 5c, 8, 9a, 9b, 9c, 10a, 10b, 12, 13 and 14 Roaring Fork River Segments: 1, 3a, 3b, 3c, 3d, 4, 6, 7, 8, 9, 10a, 10b, 11 and 12 North Platte River Segments: 3, 6, 7a, 7b, 8 and 9 Yampa River Segments: 2a, 2b, 5, 6, 7, 13a, 13b, 13c, 13d, 13e, 13f, 13g, 13h, 13i, 13j, 14, 15, 19, 20a, 20b, 21, 22 and 23

O. Other Site-Specific Revisions

<u>Upper Colorado River Segment 12</u>: The Commission determined in 2008 that the adoption of a 4 meter numerical standard with a delayed effective date was an appropriate policy choice to encourage cooperative efforts to improve Grand Lake clarity. At the same time, the Commission adopted the following narrative "The highest level of clarity attainable, consistent with the exercise of established water rights and the protection of aquatic life" as the effective standard. Efforts since 2008 have focused on data collection and understanding the factors controlling clarity.

In today's action, the Commission adopted a change to the narrative clarity standard that added "protection of water quality throughout the Three Lakes System" as another consideration for attainability in order to recognize the interdependence of water quality in the entire system. The Commission also decided that further delay in the effective date of the numerical standard was justified in view of the progress that has been made cooperatively by the parties and by the obstacles they have yet to overcome.

Sufficient effort has not yet been focused on determining an "attainable" level of clarity that is consistent with the constraints identified in the narrative standard. It is the Commission's hope that improvement in clarity can be achieved by a balanced approach that does not sacrifice water rights, the recreational fishery, or water quality. The Commission expects and anticipates a cooperative effort that will focus on identifying an attainable and protective Grand Lake clarity standard. The effort should address the following questions that consider the constraints imposed on attainability:

- 1) What are the water rights constraints?
- 2) What are the aquatic life constraints?
- 3) What are the water quality constraints from the perspective of the Three Lakes system?

4) What are the financial constraints?

The Commission expects that the cooperative effort will also evaluate alternatives for describing the water transparency necessary to protect the assigned use classifications

Ultimately, the goal of the effort is to develop and propose by January 2016 an attainable and protective clarity standard for Grand Lake for consideration by the Commission. If this cooperative effort does not result in a proposal for an attainable and protective clarity standard by January 2016, the standard will be determined by a site specific clarity standard hearing to be scheduled for 2016.

<u>Blue River Segment 5:</u> The pH standard for Soda Creek was changed from 6.0-9.0 to the table value of 6.5-9.0, based on data demonstrating this value was currently being attained.

<u>Eagle River Segment 11</u>: The "(ac)" notation was deleted from the nitrite and nitrate standards for this segment.

Roaring Fork River Segment 3b: A footnote "A" was added to the chronic arsenic standard to explain the hyphenated standard.

<u>Yampa River Segment 4</u>: A footnote "A" was added to the chronic arsenic standard to explain the hyphenated standard.

<u>Yampa River Segment 13d</u>: A footnote "A" was added to the chronic arsenic standard to explain the hyphenated standard.

PARTIES TO THE RULEMAKING HEARING

- Grand County, Northwest Colorado Council of Governments and Northern Colorado Water Conservancy District
- 2. Eagle River Water and Sanitation District
- 3. Trout Unlimited
- 4. WildEarth Guardians
- 5. Tri-State Generation and Transmission Association
- 6. Seneca Coal Company, Peabody Sage Creek Mining, LLC, and Twentymile Coal Company
- 7. Western Resource Advocates
- 8. Colorado River Water Conservation District
- 9. Climax Molybdenum Company
- 10. Trapper Mining, Inc.
- 11. Upper Blue Sanitation District
- 12. Clinton Ditch & Reservoir Company
- 13. Vail Resorts, Inc. and Vail Summit Resorts, Inc.
- 14. Eagle Park Reservoir Company
- 15. Upper Eagle Regional Water Authority
- 16. Colorado Parks and Wildlife
- 17. Denver Water
- 18. Environmental Protection Agency
- 19. Powdr-Copper Mountain, LLC
- 20. Town of Frisco

33.53 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 8, 2014 RULEMAKING; FINAL ACTION JANUARY 12, 2015; EFFECTIVE DATE JUNE 30, 2015

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the Commission reviewed the status of temporary modifications scheduled to expire before December 31, 2016, to determine whether the temporary modification should be modified, eliminated or extended. Temporary modifications of standards on two segments were reviewed.

No action: The Commission took no action on the temporary modification of the chronic molybdenum standard for Blue River segment 14: Climax Molybdenum has presented evidence of an adequate plan for eliminating the need for the temporary modification and progress is being made on resolving the uncertainty regarding the underlying molybdenum standards on Blue River segment 14. The Commission made no change to the expiration date of 12/31/2016 as the original time allotment was deemed adequate.

Extension: The Commission reviewed the definitive temporary modification implementation plan submitted by Seneca Coal Company and Peabody-Sage Creek Mining, LLC ("Peabody"). Based on the existence of that plan, as modified at the hearing, the Commission extended the temporary modification to the iron standard for Yampa River Segment 13i to December 31, 2017. The Commission expects that Peabody will meet with the Division, CPW and EPA in the spring and fall of 2015 regarding the reference site approach and progress on its plan. Progress on the Plan will be reviewed by the Commission in December 2015.

PARTIES TO THE RULEMAKING HEARING

- 1. Pioneer Natural Resources USA, Inc. and XTO Energy, Inc.
- 2. U.S. Energy Corp.
- 3. Plum Creek Water Reclamation Authority
- 4, Upper Clear Creek Watershed Association
- 5. Upper Thompson Sanitation District
- 6. Colorado Parks and Wildlife
- 7. U.S. Environmental Protection Agency
- 8. High Country Conservation Advocates
- 9. Metro Wastewater Reclamation District
- 10. Climax Molybdenum Company
- 11. Rio Grande Silver, Inc.
- 12. City of Pueblo
- 13. Tri-State Generation and Transmission, Inc.
- 14. Centennial Water and Sanitation District
- 15. Xcel Energy
- 16. MillerCoors
- 17. Seneca Coal Company
- 18. Peabody-Sage Creek Mining, LLC
- 19. City of Boulder

33.54 STATEMENT OF BASIS AND PURPOSE REGARDING THE ADOPTION OF NON-SUBSTANTIVE CHANGES TO THE CLASSIFICATION AND NUMEIRC STANDARDS FOR UPPER COLORADO RIVER BASIN AND NORTH PLATTE RIVER (PLANNING REGION 12), JANUARY 11, 2016 RULEMAKING; EFFECTIVE DATE MARCH 1, 2016

The provisions of C.R.S. 25-8-202(1)(i) and 25-8-401(2) provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

The Commission, in a public rulemaking hearing adopted extensive changes to the format of this regulation. The Commission does not intend to change any existing designations, use classifications or standards, or the implementation of any standards as the results of changing the format.

This rulemaking was in response to longstanding issues with managing the information contained in the standards tables. The changes made in this hearing reflect a change from storing the information in word processing documents to storing the information in a relational database. This change in platform will provide better consistency, facilitate error checking as well as a more readable format for the standards tables. Storing the information in a database allows it to be used more efficiently by other programs in the Division.

While it was the Commission's intent not to change the substantive meaning of the regulations in this rulemaking, in cases where there was ambiguity the revised regulation reflects the Commission's interpretation of the previous format based on Regulation #31 (the Basic Standards and Methodologies for Surface Water) and the experience of the Commission and its staff.

Overall format changes: The new format displays parameters by name, rather than by period table element abbreviations. The section formerly titled "Temporary Modifications and Qualifiers" does not appear in the new format. Instead, there is a separate section for qualifiers, and an "Other" section. Temporary modifications, variances and other footnotes are displayed in the "Other" section. Many items that were formerly in the "Temporary Modifications and Qualifiers" column will be displayed in the "Other" column and will have a different appearance or modified wording, although the information is substantively the same. Each footnote in the "Other" section is preceded by a heading that indicates where the footnote applies:

- Footnotes regarding a use classification will begin with the heading "Classification..."
- Footnotes regarding the antidegradation designation begin with the heading "Designation..."
- Footnotes that relate to a particular standard begin with the name of the parameter, for example "Selenium(chronic)= ..."

Also, since there is more room for information within each segment, footnotes "B" and "C" were replaced with the full text in each segment where these footnotes were applied. Footnote "A" was maintained because the text is too long to be displayed in the "Other" section for each segment where it applies. Footnote "D" was changed to footnote "B" and was maintained because the text is too long to be displayed in the "Other" section.

<u>Constraints of the new format</u>: Some adjustments were made to the way that data is displayed in order to be compatible with the functions of the Standards Database. Database organization requires that information which relates to multiple standards must be attached to each individual parameter. For example, a segment with a temporary modification listed for "all parameters" in the old format will have a temporary modification listed for each individual parameter in the new format. There are also spacing constraints in the new format, which require some information to be moved either to the "other" box on the new format, or moved out of the segment entirely and into another location in the regulation.

<u>Clarification of changes</u>: The shift to a database organizational structure required consistency in the way each data element is addressed. To insure that data is stored and displayed correctly, the following changes were made

- The "type" of temporary modification is no longer displayed in the segment tables, since they have no regulatory effect and have been inconsistently displayed.
- In the old format, waters that had a reviewable antidegradation designation were identified by the absence of either "UP" or "OW" in the designation column. These segments now display the word "reviewable" under the designation heading. There needed to be a value in the designation column for every segment.
- Dissolved standards are not specifically noted as dissolved in the new format. All metals standards are dissolved unless noted with a "T" or a "t". For example, a manganese standard in the old format of "WS(dis") is displayed as "WS" in the new format.
- A new footnote 7 was added to clarify that although E. coli is listed in the "chronic" column, the standard is a two-month geometric mean rather than a 30-day average. The language of footnote 7 was taken from Regulation 31, Table 1, footnote 7.
- A new footnote 8 was added to indicate that all phosphorus standards are based upon the
 concentration of total phosphorus. In the old format, individual phosphorus standards were noted
 as "total" in some basins and not others.
- A new footnote 9 was added to clarify that although pH is listed in the "acute" column, the standard is not applied as a 1-day average. The language of footnote 7 was taken from Regulation 31, Table 1, footnote 3.
- Physical and Biological Parameters: Some parameters are not specifically identified in the old format segment tables as acute or chronic. The new format requires that each parameter is placed in either the acute or chronic column. Specifically, these parameters and the basis for being identified as acute or chronic are as follows:
 - pH (acute) Regulation #31, Table 1, footnote 3
 - E. Coli (chronic) Regulation #31, Table 1, footnote 7
 - D.O. (chronic) Regulation #31, Table 1, footnote 1
 - cyanide (acute) Regulation #31, Table 2
 - sulfide (chronic) Regulation #31, Table 2
 - nitrate (acute) Regulation #31, Table 2
 - nitrite (chronic) not specified in Regulation #31. Nitrite has been implemented as a 30day average standard in permits and assessments.

- chloride (chronic) Regulation #31, Table 2
- boron (chronic) Regulation #31, Table 2
- sulfate (chronic) Regulation #31, Table 2
- The footnote on Blue River Segment 13 was modified to reduce the text to less than 200 characters, which is the maximum that can be included in the segment. Text longer than 200 characters has to be moved to a footnote outside the segment table (either at the front of the regulation or following the segment tables). The text change is as follows:

"Any water quality based effluent shall not cause or contribute to exceedances of water quality standards adopted to protect downstream uses."

33.55 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 14, 2015 RULEMAKING; FINAL ACTION JANUARY 11, 2016; EFFECTIVE DATE JUNE 30, 2016

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the Commission reviewed the status of temporary modifications scheduled to expire before December 31, 2017, to determine whether the temporary modification should be modified, eliminated or extended. Temporary modifications of standards on two segments were reviewed.

Blue River segment 14: Temporary modification of the chronic molybdenum standard. Climax Molybdenum has presented evidence that they are making progress on the plan for eliminating the need for the temporary modification and on resolving the uncertainty regarding the underlying molybdenum standards on Blue River segment 14. However, the results of a key study will not be available in time for consideration in the June 2016 Basic Standards hearing. Therefore, the Commission extended the expiration date of the "current conditions" temporary modification for molybdenum to 12/31/2017 in order that the expected study results may be considered at a special hearing subsequent to the regularly scheduled Basic Standards hearing in June 2016.

Yampa River segment 13d: Temporary modification of the iron standard. Peabody Sage Creek Mining Company and Seneca Coal Company presented evidence that the expiration date of the iron temporary modification should be aligned with the expiration date of the iron temporary modification on Yampa River segment 13i (which was the subject of rulemaking last year). These segments are subject to the same study plan, and should have the same expiration date. The Commission extended the temporary modification to the iron standard for Yampa River segment 13d to 12/31/2017.

In addition, the Commission corrected the Regulation #33 numeric tables for Yampa River segment 13i to indicate that the iron temporary modification applies to Grassy Creek, not Little Grassy Creek. This correction is consistent with Regulation #33 and its Statements of Basis and Purpose for the iron temporary modification on Grassy Creek as adopted by the Commission in the Colorado Basin hearings in 2008 and 2014.

PARTIES TO THE RULEMAKING HEARING

1. City of Delta

- 2. Resurrection Mining Company
- 3. U.S. Energy Corp.
- 4. City of Pueblo
- 5. Peabody Sage Creek Mining and Seneca Coal Company
- 6. Climax Molybdenum Company
- 7. Rio Grande Silver
- 8. City of Colorado Springs and Colorado Springs Utilities
- 9. Tri-State Generation and Transmission Association, Inc.
- 10. High Country Conservation Advocates
- 11. U.S. Environmental Protection Agency
- 12. Colorado Parks and Wildlife
- 13. Town of Crested Butte and Coal Creek Watershed Coalition
- 14. Public Service Company of Colorado

33.56 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; APRIL 11, 2016 RULEMAKING; FINAL ACTION MAY 9, 2016; EFFECTIVE DATE JUNE 30, 2016

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

While United States Senate Document No 80, does not bind the Commission, the portion entitled "Manner of Operation of Project Facilities and Auxiliary Features," states that the Colorado-Big Thompson Project must be operated in such a manner as to most nearly effect the following primary purposes:

- 1. To preserve the vested and future rights in irrigation.
- 2. To preserve the fishing and recreational facilities and the scenic attractions of Grand Lake, the Colorado River, and the Rocky Mountain National Park.
- 3. To preserve the present surface elevations of the water in Grand Lake and to prevent a variation in these elevations greater than their normal fluctuation.
- 4. To so conserve and make use of these waters for irrigation, power, industrial development, and other purposes, as to create the greatest benefits.
- 5. To maintain conditions of river flow for the benefit of domestic and sanitary uses of this water.

In 2008, the Commission adopted dual numeric and narrative standards for the protection and improvement of water clarity in Grand Lake pursuant to 31.13(3), because of Grand Lake's uniqueness as Colorado's largest natural lake. In doing so, the Commission stated that "Improvement of clarity within Grand Lake is expected to improve the quality of recreational uses of this unique resource." In 2008, the Commission also adopted a delayed effective date for the numeric standard as an appropriate policy choice to encourage cooperative efforts to improve Grand Lake clarity. These efforts have been difficult and protracted, but they have also yielded important progress in understanding the factors controlling clarity of Grand Lake. In 2014, the effective date was extended for two more years and the parties were directed that "the goal of the effort is to develop and propose by January 2016, an attainable and protective clarity standard for Grand Lake for consideration by the Commission." The purpose of this hearing was to consider a joint proposal by Grand County, Northwest Colorado Council of Governments, Colorado River Water Conservation District, and Northern Colorado Water Conservancy District ("Proponents") to modify the numeric clarity standard for Grand Lake.

While arguments were raised that the noticed proposal may go beyond the Commission's authority, the Commission did not make that finding. Rather, the Commission adopted a compromise proposal from the Division, and supported by the Proponents, the Bureau of Reclamation and other parties, that better balances the clarity, the water rights, the recreational fishery, and the water quality in the Three Lakes system. In today's hearing, the Commission deleted the 4-meter standard (which has not yet become effective) and adopted the proposed numeric values of 3.8-meter Secchi depth average and 2.5-meter Secchi depth daily minimums as Goal Qualifiers to the existing narrative standard. Goal Qualifiers are unique to Colorado's water quality standards framework and are not subject to EPA section 303(c)(2) review and approval and federal Clean Water Act standards and, in themselves, do not trigger section 303(d) assessment and listing. Goal Qualifiers are defined in Regulation #31 as appending to the use classification, and have been traditionally used in conjunction with a temporary modification. However, a temporary modification is not appropriate for Grand Lake because there are no permitted discharges (now a prerequisite for temporary modifications). The Commission has, in at least two other instances (Lower Yampa Segment 3b, Johnson Gulch; and Animas River Segments 3a, 4a and 9), used Goal Qualifiers to express a future desired water quality condition, rather than a future use classification goal.

The existing 4-meter summertime 85th percentile value standard was revised to 3.8-meter average Goal Qualifier as a refinement of the estimate of resulting clarity when there has been no pumping for at least seven days. The season was also refined to end just after the Labor Day weekend. This is the same concept that was the basis for the 2008 action, and achieving this level of clarity would signify protection of Grand Lake's clarity. The Commission also added a 2.5-meter daily minimum Goal Qualifier as a floor on clarity such that averaging clarity measurements over the entire summer will not mask abrupt decreases in clarity.

In this hearing the Commission reaffirmed its commitment to improved water clarity in Grand Lake. The Commission reiterates that improvement in the clarity of Grand Lake is necessary, while noting that a single "attainable" level of clarity may not exist. The current and future cooperative efforts should continue to focus on a feasible, balanced approach that does not sacrifice water rights, the recreational fishery, or water quality in the Three Lakes system. The Commission remains concerned that it may be infeasible or impractical to find a single numeric standard that can be implemented uniformly in all years due to the fundamental requirement for the CB-T system to operate in a manner which varies year-to-year depending on supply of and demand for water. Any future, proposed attainability-based numeric standard must address these implementation issues.

The Goal Qualifiers should be useful to guide the adaptive management process as embodied in the Memorandum of Understanding between the Proponents and the Bureau of Reclamation. Over the next five years, the Commission expects that the Parties to the MOU will engage in adaptive management that will improve clarity, and inform the operational component of the alternatives being considered. The adaptive management process will result in regular communication between the Parties to the MOU, monitoring of the operational adjustments on clarity, and an evaluation of the relative clarity improvements. Exhibit C to the MOU outlines the monitoring protocols. Three monitoring sites are identified (GL-WES, GL-MID, GL-ATW) and a sampling schedule is outlined, which states that samples will be collected once a week starting May 1 (or as soon as ice is off), 3 times per week from July 1 through September 11 (may be increased to daily sampling based on operational planning), and once a week from September 12 through October 30. From July 1 through September 11, measurements must be taken at all three sites, and will be averaged to evaluate whether the Goal Qualifiers are being met. If data for at least one of the three sites are missing on any given day, an average for that day will not be computed.

The narrative standard remains in effect and can serve to inform the purpose and need statement for the Bureau of Reclamation's assessment of alternatives. Once the Bureau's assessment is complete and there is a final assessment of the attainability constraints already identified, a proposal for an attainability-based clarity standard can be considered by the Commission.

The Division will assess consistency with the adopted narrative standard by monitoring whether the Proponents continue to implement the adaptive management process described in their Memorandum of Understanding and will review clarity measurements. Evaluation of the Goal Qualifiers will be accomplished by reviewing annual reports and summarizing progress at the Basin Issues Scoping Hearing. In addition, as with all standards, the clarity standards (and goals) for Grand Lake are subject to periodic review, and the Commission expects to review and revisit this issue in future review cycles.

PARTIES TO RULEMAKING

- 1. Grand County
- 2. Northwest Colorado Council of Governments
- 3. Colorado River Water Conservation District
- 4. Northern Colorado Water Conservancy District
- 5. Larimer County
- 6. Mid-West Electric Consumers Association
- 7. New Red Top Valley Ditch Company
- 8. U. S. Bureau of Reclamation
- Environmental Protection Agency
- 10. Colorado Parks and Wildlife

33.57 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 12, 2016 RULEMAKING; FINAL ACTION JANUARY 9, 2017; EFFECTIVE DATE JUNE 30, 2017

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the commission reviewed the status of temporary modifications scheduled to expire before December 31, 2018, to determine whether the temporary modification should be modified, eliminated or extended.

No action: The commission took no action on the following temporary modifications:

Blue River Segment 14: temporary modification of the molybdenum standard. The commission made no change to the expiration date of 12/31/2017 since this issue will be addressed in mid-2017 in a molybdenum-specific hearing.

Yampa River Segments: Seneca-Peabody presented evidence that it is making progress on the plan for eliminating the need for need for the temporary modifications. The commission made no change to the expiration date of the temporary modifications on these segments as the original time allotment was deemed adequate to resolve the uncertainty.

Segment 13b, selenium, (exp 12/31/2018) Segment 13d, selenium, (exp 12/31/2018) Segment 13e, selenium, (exp 12/31/2018) Segment 13g, selenium, (exp 12/31/2018) Segment 13i, selenium, (exp 12/31/2018)

Extension

Yampa River Segments 13d and 13i: temporary modifications of the iron standards. Seneca-Peabody presented evidence that additional time was necessary to resolve the uncertainty regarding the underlying iron standard. The commission extended the expiration dates of the iron temporary modifications to December 31, 2018.

New Temporary Modifications of the Arsenic Standard:

Consistent with the actions taken in 2013, the commission adopted a temporary modification of the arsenic standard on segments on the following list, with an expiration date of 12/31/2021. At the April 8, 2013 rulemaking, the commission heard testimony that concurred with the finding from December 13, 2011 hearing that an initial reasonable lower limit of treatment technology for arsenic is $3.0~\mu g/L$, pending further investigation by the division, dischargers and stakeholders. The temporary modification was established by the commission to allow for a temporarily less stringent application of the chronic arsenic standard in control requirements for both existing discharges and new or increased discharges.

Upper Colorado Segment 1

Blue River Segment 6a

Blue River Segment 12

Blue River Segment 17

Blue River Segment 18

Eagle River Segment 2

Eagle River Segment 5c

Eagle River Segment 9b

Eagle River Segment 12

Roaring Fork Segment 3c

Roaring Fork Segment 10b

PARTIES TO THE RULEMAKING HEARING

- 1. Colorado Parks and Wildlife
- 2. Resurrection Mining Company
- 3. Public Service Company of Colorado
- 4. City of Pueblo
- 5. Peabody Sage Creek Mining Company and Seneca Coal Company
- 6. Tri-State Generation and Transmission Association, Inc.
- 7. Climax Molybdenum Company
- 8. Rio Grande Silver, Inc.
- 9. Mt. Emmons Mining Company
- 10. Plum Creek Water Reclamation Authority
- 11. Environmental Protection Agency
- 12. Raytheon Company
- 13. City of Boulder Open Space and Mountain Parks
- 14. High Country Conservation Advocates
- 15. City of Colorado Springs and Colorado Springs Utilities
- 16. City of Black Hawk and Black Hawk/Central City Sanitation District
- 17. Town of Crested Butte and Coal Creek Watershed Coalition
- 18. Parker Water and Sanitation District

33.58 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE AUGUST 7, 2017 RULEMAKING; FINAL ACTION AUGUST 7, 2017; EFFECTIVE DATE SEPTEMBER 30, 2017

The provisions of C.R S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

Blue River Segment 14: Temporary Modification of the chronic molybdenum standard. Climax Molybdenum Company presented evidence that progress has been made on its plan to eliminate the need for a temporary modification and to resolve uncertainty associated with the underlying molybdenum standard of 210 ug/L on Segment 14. A third study sponsored by the International Molybdenum Association (IMOA) on the health effects of molybdenum was completed in late 2016. An abstract and a study report were made available to the Division and other interested stakeholders in early 2017. Because of unanticipated delays associated with the IMOA's finalization of the full study report it was necessary for the Commission to postpone the hearing concerning the molybdenum standards that was scheduled for August 2017. The molybdenum hearing will be held December 12, 2017. The current temporary modification expires December 31, 2017. In view of the above, the Commission extended the temporary modification in Segment 14 to December 31, 2018.

33.59 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 11, 2017 RULEMAKING; FINAL ACTION JANUARY 8, 2018; EFFECTIVE DATE JUNE 30, 2018

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the commission reviewed the status of temporary modifications scheduled to expire before December 31, 2019 to determine whether the temporary modification should be modified, eliminated, or extended.

No action: The commission took no action on the temporary modifications on the following segments:

Blue River Segment 14: temporary modification of the molybdenum standard (expires 12/31/2018). The commission took no action on this temporary modification.

Extension:

Yampa River Segments 13b, 13d, 13e, 13g, 13h, 13i, and 13j: temporary modifications of the iron standards (Segments 13d and 13i, expire 12/31/2018) and selenium standards (Segments 13b, 13d, 13e, 13g, 13i, expire 12/31/2018) were reviewed. Based on evidence submitted by Peabody Sage Creek Mining Company, Seneca Coal Company, and Twentymile Coal, LLC (Peabody) that demonstrated a need for additional time to resolve the uncertainty in the underlying standards, the commission extended the iron temporary modifications on Yampa River segments 13d and 13i. The commission also extended the temporary modifications of the selenium standards on Yampa River segments 13b, 13d, 13e, 13g, and 13i, and adopted temporary modifications of the selenium standards of Yampa River Segments 13h and 13j.

Iron

Peabody originally proposed ambient-based iron standards for Yampa River Segment 13i and revised ambient-based iron standards for Yampa River Segment 13d. However, the commission decided instead to extend the temporary modifications. The commission found that there is still uncertainty about the potential for iron concentrations to stabilize over time, the potential for iron concentrations to improve with additional reclamation activities, and the spatial and seasonal variability of the natural or irreversible iron concentrations. The commission reviewed the revised plan to resolve uncertainty submitted by Peabody and determined that additional time is required for data collection. Peabody revised its proposal to seek extensions of the temporary modifications and agreed to continue to characterize the spatial and temporal variability of iron in these segments. The commission extended the current conditions temporary modifications for iron on Segments 13d and 13i with an expiration date of 6/30/2023.

Selenium

Peabody had originally proposed site-specific criteria-based standards for Yampa River Segments 13b, 13d, 13e, 13g, and 13i, and site-specific ambient-based standards for Yampa River Segments 13h and 13j. Based on discussions with the division, and due to the lack of final guidance on EPA selenium criteria as well as ongoing Colorado-specific selenium studies, Peabody revised its proposal to seek extensions and adoptions of selenium temporary modifications on these segments. Based on the evidence presented by Peabody, the commission extended the temporary modifications for selenium on Yampa River Segments 13b, 13d, 13e, 13g, and 13i, and adopted temporary modifications for selenium on Segments 13h and 13j, as follows:

Yampa River Segment 13b: Selenium(chronic) = current condition for Foidel and Middle Creeks, expiration date of 12/31/2022

Yampa River Segments 13d, 13e, 13g, 13h, 13i, and 13j: Selenium(chronic) = current condition, expiration date of 12/31/2022

If compliance and permitting issues on Cow Camp (in Segment 13g) and Little Grassy (in Segment 13i) creeks are resolved sooner than 12/31/2022 and eliminate the need for temporary modifications on these waterbodies, the commission can modify the temporary modifications during the June 2019 Upper Colorado River basin review, the 2020 Temporary Modifications hearing, or the 2021 Temporary Modifications hearing, when these temporary modifications are scheduled for review.

Typographical and other corrections:

The commission made edits to improve clarity and correct typographical errors in section 33.6(4) and the corresponding tables for Yampa River sub-basin segments.

New temporary modifications of the arsenic standard:

Consistent with the actions taken in 2013, the commission adopted a temporary modification of the arsenic standard on segments on the following list, with an expiration date of 12/31/2021. At the April 8, 2013 rulemaking, the commission heard testimony that concurred with the finding from a December 13, 2011 rulemaking hearing that an initial reasonable lower limit of treatment technology for arsenic is 3.0 μ g/L, pending further investigation by the division, dischargers and stakeholders. The temporary modification was established by the commission to allow for a temporarily less stringent application of the chronic arsenic standard in control requirements for both existing discharges and new or increased discharges.

Upper Colorado Segment 2 Blue River Segment 2a Roaring Fork Segment 12 Yampa River Segment 2a

PARTIES TO THE RULEMAKING HEARING

- 1. Peabody Sage Creek Mining Company, Seneca Coal Company and Twentymile Coal, LLC
- 2. Tri-State Generation and Transmission Association, Inc.
- 3. Colorado Parks and Wildlife
- 4. Environmental Protection Agency
- 5. City of Black Hawk and Black Hawk/Central City Sanitation District
- 6. Rio Grande Silver. Inc.
- 7. MillerCoors LLC
- 8. Plum Creek Water Reclamation Authority
- 9. Public Service Company of Colorado
- 10. City of Pueblo

33.60 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; JANUARY 8, 2018 RULEMAKING; FINAL ACTION MARCH 12, 2018 EFFECTIVE DATE JUNE 30, 2018

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

Blue River Segment 14: Temporary Modification of the chronic molybdenum standard for water supply.

Climax Molybdenum Company presented evidence that progress has been made on its plan to eliminate the need for a temporary modification and to resolve uncertainty associated with the underlying molybdenum standard of 210 μ g/L on Segment 14.

Three studies sponsored by the International Molybdenum Association (IMOA) on the health effects of molybdenum were completed and full reports were made available for consideration in a hearing originally scheduled for December 12, 2017. The hearing was to consider revisions to both the water supply and agriculture molybdenum standards in Regulations 31 and 33, as well as to resolve the temporary modification to the molybdenum water supply standard on Blue River Segment 14.

At the prehearing conference on November 29, 2017, the Commission hearing chair heard arguments regarding a Climax request to continue the rulemaking hearing. These arguments centered on the Division's position in rebuttal that the Commission should not consider any revisions to the water supply molybdenum standard until the most recent IMOA study was peer-reviewed and published as a technical journal article, and until the Agency of Toxic Substances and Disease Registry (ATSDR) considers the recent IMOA study results in the updated version of its draft toxicological profile for molybdenum. The Division presented evidence at the prehearing conference that ATSDR planned to revisit the draft profile in spring 2018, and that an updated version could be expected in approximately one year.

On December 1, 2017, the Commission issued its Prehearing Order, continuing the consideration of water supply and agriculture molybdenum standards in Regulation 31 and Regulation 33 until November 2019. The Commission also continued the rulemaking until January 8, 2018, for the limited purpose of considering an extension of the temporary modification of the water supply standard in Blue River Segment 14. The Commission established additional filing deadlines for Climax to submit additional information to support the extension of the temporary modification.

In this hearing, the Commission considered the additional information presented by Climax in support of the extension of the temporary modification on Segment 14, and found that nonattainment of the underlying standards was demonstrated, there was predicted non-attainment of a water quality based effluent limit, and there was uncertainty regarding the water quality standard necessary to protect current uses. There is also uncertainty regarding the extent to which existing quality in Blue River Segment 14 is the result of irreversible human-induced conditions. The Commission accepted Climax's revised plan to resolve the uncertainty associated with the underlying standard of 210 µg/L with some additional considerations. Climax's plan includes publication of the third IMOA study, awaiting publication of the ATSDR revised Toxicological Profile for Molybdenum, continued water quality monitoring of effluent and Tenmile Creek, source identification, potential additional monitoring, and updates to stakeholders. Furthermore, in order to resolve the uncertainty as to whether attainment of the underlying standard is feasible, in addition to what is outlined in Climax's plan, Climax will conduct investigations for molybdenum including identification of sources, influent control measures, investigation of potential treatment alternatives and treatment optimization, and available blending. Climax will identify treatment options, source control and water management alternatives, the expected effluent quantity and quality that could be achieved with each alternative, and an estimated cost for each alternative.

Given the continuation of the Commission's consideration of revised molybdenum standards until November 2019, which is after the expiration date of December 31, 2018 of the current temporary modification, the Commission extended the "current conditions" temporary modification in Segment 14 to June 30, 2020. "Current conditions" will preserve the status quo. As expressed by the Commission in a previous rulemaking, "current conditions" recognizes that during the term of the temporary modification, variability in a permitted discharger's effluent quality may occur. See Reg. 31, Section 31.53(V)(B).

The Commission also heard evidence that Climax is committed to continuing to resolve outstanding issues associated with the agriculture standard during the pendency of the continued standards rulemaking.

PARTIES TO THE RULEMAKING HEARING

- 1. Climax Molybdenum Company
- 2. Clinton Ditch and Reservoir Company
- 3, Eagle Park Reservoir Company
- 4. Eagle River Water and Sanitation District
- 5. Upper Eagle Regional Water Authority
- 6. U.S. Environmental Protection Agency
- Denver Water
- 8. Copper Mountain Consolidated Metropolitan District
- 9. Powdr-Copper Mountain, LLC
- 10. Grand County

- 11. Northwest Colorado Council of Governments
- 12. Town of Frisco
- 13. City of Thornton

33.61 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 10, 2018 RULEMAKING; FINAL ACTION JANUARY 14, 2019 EFFECTIVE DATE JUNE 30, 2019

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the commission reviewed the status of temporary modifications scheduled to expire before December 31, 2020 to determine whether the temporary modification should be modified, eliminated, or extended.

For the temporary modifications set to expire after the effective date of this hearing, the commission reviewed progress toward resolving the uncertainty in the underlying standard and/or the extent to which conditions are a result of natural or anthropogenic conditions, and evaluated whether the temporary modifications were still necessary. The commission took no action on the following temporary modifications:

Blue River Segment 14 (COUCBL14): temporary modification of the chronic molybdenum standard (expires 6/30/2020). Climax Molybdenum Company continues to make progress to resolve the uncertainty, and the commission continues to believe that an expiration date of 6/30/2020 provides sufficient time to resolve the uncertainty.

However, the commission and parties identified concerns regarding whether "status quo" of the waterbody and effluent was being preserved, per the requirements of "current condition" temporary modifications at 31.7(3)(d). The commission directed Climax to work with stakeholders as part of this hearing to determine if existing uses are being protected and status quo is being preserved instream and in the discharge.

In this rulemaking hearing, parties disagreed about what period of record and sites should be used to represent the baseline or "status quo" that is to be preserved, and multiple options were presented to the commission. Climax restarted mining operations in May 2012, which resulted in an increase in molybdenum concentrations in Climax's effluent and Tenmile Creek. The "current condition" temporary modification was adopted in June 2014, after mining restarted and affected water quality. Until further analyses are completed, the commission has determined that the "status quo" to be preserved is the post-mining water quality condition represented by data collected from May 2012 to June 2014, when the temporary modification was originally adopted. Water quality data from two sites on Tenmile Creek near Frisco (Climax site "Frisco 3rd Ave" and Denver Water site "Ten Mile Creek above Dillon") and Climax's effluent (Outfall 001a) were evaluated to establish the instream and effluent baseline conditions.

For the May 2012 to June 2014 period of record, the 50^{th} percentile molybdenum concentrations in Tenmile Creek and Climax's effluent were 170 µg/L and 490 µg/L, respectively. These values can be used as an interim baseline to compare to data collected after the temporary modification was adopted in June 2014 using the ambient standards assessment technique in Appendix B of the 303(d) listing methodology. While a long-term (2012 to 2018) trend analysis of Tenmile Creek water quality data identified a statistically significant increasing trend in instream molybdenum concentrations since Climax restarted mining operations in 2012, 50th percentile molybdenum concentrations in Tenmile Creek and Climax's effluent from the 2015 to 2018 period of record are not statistically significantly different from the 2012 to 2014 baseline values. In addition, the ambient standards assessment methodology comparing 2012 to 2014 vs 2015 to 2018 does not indicate that the lower confidence limit of the 50^{th} percentile molybdenum concentration in 2015 to 2018 is higher than the baseline. Based on this information, at this time, the commission finds "status quo" is currently being preserved.

This hearing has highlighted challenges with "current condition" temporary modifications and how to evaluate whether "status quo" is being preserved. The commission has a hearing scheduled for November 2019 to consider a change to the underlying standard and delete the temporary modification for Tenmile Creek. While the commission does not intend that this temporary modification will be reviewed or extended, if it is, the commission directs the division to develop a numeric operative value(s) to replace the existing narrative operative value of "current condition". The purpose of this change will be to establish a baseline condition which must be preserved in Blue River Segment 14 and facilitate future evaluations of status quo preservation. Considerations in the development of the numeric value(s) will include, but are not limited to, temporal and spatial variability in molybdenum concentrations. Climax and interested stakeholders will continue to participate in this process, including continued collection and sharing of data to support evaluations of whether status quo is being preserved and existing uses are being protected.

In addition, the commission expects that Climax will share a written report detailing its investigations for molybdenum including identification of sources/source control, influent control measures, water management alternatives, available blending, potential treatment and treatment optimization options, the expected effluent quantity and quality that could be achieved with each alternative, and an estimated cost for each alternative with all stakeholders by July 1, 2019 and provide an opportunity for input. Climax shall identify any gaps in this information at that time. Further, the commission encourages Climax to share more information and data with the public and interested parties on a routine and ongoing basis.

33.62 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; JUNE 10, 2019 RULEMAKING; FINAL ACTION AUGUST 12, 2019; EFFECTIVE DATE DECEMBER 31, 2019

The provisions of C.R.S. 25-8-202(1)(a) and (b); 25-8-203; 25-8-204; and 25-8-402 C.R.S., provide the specific statutory authority for adoption of these regulatory amendments. The commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

A. Water Body Segmentation

Some segments were renumbered, combined, or new segments were created to facilitate appropriate organization of water bodies in this regulation. Renumbering and/or creation of new segments was made based on information that showed: a) the original reason for segmentation no longer applied; b) significant differences in uses, water quality and/or physical characteristics warrant a change in standards on only a portion of the existing segment; and/or c) certain segments could be merged into one segment because they had similar water quality and uses. The following changes were made:

<u>Upper Colorado segments 2, 5, and 6a</u>: The mainstem of Willow Creek from the outlet of Willow Creek Reservoir to the confluence with the Colorado River was moved from segments 2 and 6a to a new Segment 5 to facilitate adoption of appropriate temperature standards. New Segment 5 was assigned CS-II temperature standards. Segments 2 and 6a retained CS-I temperature standards. Segment 2 is classified as Recreation E, and Segment 6a is classified as Recreation P. The more protective Recreation E standards from Segment 2 were adopted on Segment 5.

<u>Upper Colorado segments 6b and 6c</u>: Segments 6b and 6c were combined into Segment 6b to facilitate improved organization of the regulation and adoption of appropriate standards to protect the Aquatic Life use. Existing standards on Segment 6c were retained for the new Segment 6b.

<u>Upper Colorado segments 7b and 7c</u>: Tributaries to Muddy Creek from the inlet of Wolford Mountain Reservoir to the outlet of the reservoir and Blacktail Creek were moved from Segment 7c to Segment 7b to facilitate adoption of a Recreation E use classification and standards on these tributaries.

<u>Upper Colorado segments 7b, 7d, and 7e</u>: The mainstem of Muddy Creek from the outlet of Wolford Mountain Reservoir to above the Highway 40 Bridge in Kremmling (40.060574, - 106.398739) was moved from Segment 7b to a new Segment 7d to facilitate adoption of appropriate temperature standards. The mainstem of Muddy Creek from above the Highway 40 Bridge in Kremmling (40.060574, -106.398739) to the confluence with the Colorado River was moved from Segment 7b to a new Segment 7e to facilitate adoption of appropriate temperature standards and to remove the Water Supply use. Segment 7b retained CS-I temperature standards and the Water Supply use. Segment 7d retained the Water Supply use and was assigned CS-II temperature standards. Segment 7e was assigned CS-II temperature standards with no Water Supply use.

<u>Blue River segments 4a and 5</u>: Soda Creek from the source to Dillon Reservoir was moved from Segment 5 to Segment 4a to facilitate improved organization of the regulation. Segment 5 was previously included as an exception to Segment 4a, but the uses and standards were the same for both segments. Segment 5 was deleted.

Roaring Fork segments 3a and 3c: Three Mile Creek, including all tributaries and wetlands, from the source to the confluence with the Roaring Fork River was moved from Segment 3c to Segment 3a to facilitate adoption of appropriate temperature standards. Segment 3c retained CS-II temperature standards.

Segment descriptions were also edited to improve clarity, correct typographical errors, and correct spelling errors. These changes are listed in Section M.

B. Aquatic Life Use Classifications and Standards

Some segments assigned an Aquatic Life use classification were missing a standard to protect that use. The commission adopted the missing standards for the following segments:

Upper Colorado River: 4 (sculpin qualifier), 6a (sculpin qualifier), 6b (full suite of aquatic life use standards), 7c (sculpin qualifier)

Eagle River: 11 (full suite of aquatic life use standards)

Yampa River: 4 (full suite aquatic life use standards), 11 (full suite aquatic life use standards), 12 (full suite aquatic life use standards), 19 (dissolved selenium)

The commission reviewed information regarding the existing aquatic communities. No segments were lacking an Aquatic Life use, but Class 2 segments with high MMI scores or a wide variety of fish species were upgraded from Class 2 to Class 1.

The following segments were upgraded from Cold 2 to Cold 1:

Yampa River: 11

The commission reviewed all Class 2 segments that have fish that are "of a catchable size and which are normally consumed and where there is evidence that fishing takes places on a recurring basis." Water + Fish or Fish Ingestion standards were applied to the following segments:

Eagle River: 11

C. Recreation Use Classifications and Standards

The commission reviewed information regarding the current Recreation use classifications and evidence pertaining to actual or potential primary contact recreation. In addition, newly created segments were given the same Recreation use classification as the segment from which they were split, unless there was insufficient evidence to support keeping that classification, or evidence to show that the existing use classification was inappropriate.

Based upon evidence that portions of these segments are publicly accessible and located in a developed area where there is easy access for children, it was determined that primary contact recreation is expected to occur. The following segments with a Recreation N use classification and standards were upgraded to Recreation E:

Upper Colorado River: 7a

Blue River: 7

Roaring Fork River: 3b North Platte River: 7b

Based upon evidence that portions of these segments are publicly accessible and/or accessible to families who live in the area or visitors to public recreation lands in these segments, it was determined that primary contact recreation is expected to occur, including water play by children. The following segments with a Recreation U use classification and standards were upgraded to Recreation E:

Yampa River: 20a

During the 2008 hearing, the commission created Segment 20a and adopted a Recreation U classification after it was determined that a lack of reasonable inquiry had been completed and no use attainability analysis was completed. The segment description specified endpoints; however, the beginning of the segment was ambiguous. It has since been identified that tributaries to the Yampa River from above the confluence with the Elk River on National Forest lands were not explicitly included in any segments. The description for Segment 20a has been amended to include this omission, and the recreation use was upgraded to Recreation E to protect existing primary contact recreation on this segment.

D. Water Supply Use Classification and Standards

The commission added a Water Supply use classification and standards where the evidence demonstrated a reasonable potential for a hydrological connection between surface water and alluvial wells used for drinking water. The Water Supply use classification and standards were added to the following segments:

Yampa River: 5, 11, 13c (changed from seasonal application to year around), 13e

The commission removed the Water Supply use classification and standards where the evidence demonstrated that a Water Supply use does not currently exist due to flow or other conditions, and that such a use is not reasonably expected in the future due to water rights, source water options, or other conditions. The Water Supply standard for chloride was retained for these segments, given concerns regarding the protection of aquatic life by the existing Water Supply standards. The Water Supply use classification and standards, except for chloride, were removed from the following segments:

Upper Colorado River: 7e

For the segments where the Water Supply use classification and standards were removed, the commission retained the 250 mg/L chronic (30-day average) standards for chloride as an interim step, based on evidence presented demonstrating the toxic effects of chloride on aquatic life. Retaining the current chloride standard is necessary to protect the assigned Aquatic Life uses and to ensure that these waters are free from substances toxic to aquatic life in accordance with 31.11(1)(a)(iv). The commission retained the numeric standard for chloride because narrative standards have often proved challenging to implement, and interim numeric standards will provide implementable interim standards while allowing time for development of robust replacement criteria based on the latest scientific information.

The commission recognizes that there is scientific uncertainty about the appropriate standards for chloride and/or sulfate to protect the Aquatic Life use, and that appropriate standards may need to recognize that toxicity is affected by site water characteristics (similar to the influence of hardness on the toxicity of dissolved metals). The commission's intention is that future revisions to the numeric standards assigned to these segments, and also to Regulation No. 31 (i.e., aquatic life-based table values chloride and/or sulfate), can be considered if: (1) EPA issues new or updated CWA § 304(a) Aquatic Life criteria recommendations, (2) another state adopts new or revised Aquatic Life criteria and EPA approves, or (3) protective criteria otherwise become available that incorporate the latest scientific information on the risks to aquatic life posed by these pollutants.

E. Agriculture Use Classification and Standards

The commission reviewed the single segment lacking an Agriculture use (COUCBL07). Based on an evaluation of the available data and information, no changes were adopted at this time.

Some segments assigned an Agriculture use classification were missing a standard to protect that use. The commission adopted the missing standards for the following segments:

Yampa River: 13g, 13h, 13i (total recoverable trivalent chromium)

F. Other Standards to Protect Agriculture, Aquatic Life, and Water Supply Uses

1. **Molybdenum:** In 2010, the commission adopted a new standard for molybdenum to protect cattle from the effects of molybdenosis. The table value adopted at that time was 300 μ g/L, but included an assumption of 48 mg/day of copper supplementation to ameliorate the effects of molybdenosis. State and local experts on cattle nutrition indicated that copper supplementation in the region is common, but is not universal. Therefore, the copper supplementation assumption was removed from the equation, which then yielded a standard of 160 μ g/L. That standard was applied in recent basin reviews.

In the 2015 Regulation No. 38 hearing, the commission adopted a standard of 150 μ g/L, based on an improved understanding of the dietary- and water-intake rates for various life-stages of cattle. This standard is protective of all life-stages of cattle (including lactating cows and growing heifers, steers and bulls) at all times of year.

The Agriculture table value assumes that the safe copper:molybdenum ratio is 4:1. Food and water intake is based on growing heifers, steers, and bulls consuming 6.7 kg/day of dry matter and 56.8 liters of water per day. Molybdenum supplementation is assumed to be zero. The table value standard (TVS), which considers total copper and molybdenum intakes, is calculated from the following equation:

Mo TVS =
$$\frac{(Cu_{\text{forage}} \text{ x Forage}_{\text{intake}}) + (Cu_{\text{water}} \text{ x Water}_{\text{intake}}) +}{Cu_{\text{supp}}} - (Mo_{\text{forage}} \text{ x Forage}_{\text{intake}})}{Cu:Mo Safe Ratio}$$

The assumed values for these equations are as follows:

In 2010, the commission also adopted a new standard for molybdenum to protect the Water Supply use that was calculated in accordance with Policy 96-2.

A molybdenum standard of 150 μ g/L was adopted for all segments in Regulation No. 33 that have an Agriculture use classification, and where livestock or irrigated forage are present or expected to be present.

The following segments (or portions of segments) have an Agriculture use classification and a Water Supply use, but livestock watering does not occur. A molybdenum standard of 210 µg/L was retained on these segments to protect the Water Supply use:

The following segment has an Agriculture use classification, but livestock watering does not occur. A numeric molybdenum standard does not apply to this segment. Instead, a narrative standard applies to protect the Water Supply use in downstream waters.

The following segment has an Agriculture use classification, but a site-specific molybdenum standard has been previously adopted. The site-specific molybdenum standard of 190 µg/L was retained on this segment to protect the Agriculture use:

Upper Colorado River: 8

2. Cadmium for Aquatic Life: The commission adopted updated hardness-based cadmium Aquatic Life standards on a targeted, site-specific basis in cold waters to reflect the most up-to-date science. The new standards, released by the U.S. Environmental Protection Agency (EPA) in March 2016, are protective of sensitive cold water aquatic life (i.e., trout). The cadmium criteria recommended by EPA and adopted by the commission are as follows:

Acute =
$$e^{(0.9789*ln(hardness) - 3.866)*}(1.136672-(ln(hardness)*0.041838))$$

Chronic =
$$e^{(0.7977*ln(hardness) - 3.909)*}(1.101672-(ln(hardness)*0.041838))$$

EPA's updated cadmium criteria are less stringent than Colorado's current cadmium standards when water hardness is greater than 45 mg/L CaCO3. Although the criteria are less stringent, they were developed using the latest science and are protective of aquatic life, and it is expected that Colorado's state-wide cadmium standards will likely be updated using the 2016 EPA cadmium criteria at a later date. Therefore, the commission determined it was appropriate to adopt the new criteria for waters known to be impaired for cadmium to ensure forthcoming clean-up goal development and Total Maximum Daily Load (TMDL) evaluations are based on the most relevant water quality standards available. The updated cadmium standards were adopted for the following segments:

Blue River: 2c, 4a, 6a, 7, 12

Eagle River: 2, 5a (acute), 5c (acute), 6

3. Cadmium, Nickel, and Lead for Water Supply: A review of the cadmium, nickel, and lead standards showed that uses were not always adequately protected by the standards currently in the tables. Depending on hardness, the Aquatic Life standards for cadmium, lead, and nickel were not protective of the Water Supply use. The division reviewed all segments in Regulation No. 33 to determine if the current standards applied to each segment are fully protective of the assigned uses, and revised or added standards where appropriate.

The cadmium Water Supply standard was added because the acute Aquatic Life standard is not protective when the hardness was greater than 200 mg/L in non-trout streams and 345 mg/L in trout streams; the lead Water Supply standard was added because the acute Aquatic Life standard is not protective when hardness is greater than 79 mg/L; and the nickel Water Supply standard was added because the chronic Aquatic Life standard is not protective when hardness is greater than 216 mg/L. Cadmium, lead, and nickel Water Supply standards were added to the following segments:

Upper Colorado River: 1, 2, 3, 4, 5, 6a, 7a, 7b, 7c, 7d, 8, 9, 10a, 10b, 10c, 11, 12, 13

Blue River: 1, 2a, 2b, 2c, 4a, 4b, 6a, 6b, 8, 9, 10, 12, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23

Eagle River: 1, 2, 3, 4, 5a, 5b, 5c, 6, 7a, 7b, 8, 9a, 9b, 9c, 10a, 10b, 12, 13, 14

Roaring Fork River: 1, 2, 3a, 3b, 3c, 3d, 4, 5, 6, 7, 8, 9, 10a, 10b, 11, 12

North Platte River: 1, 2, 3, 4a, 4b, 5a, 5b, 6, 8, 9

Yampa River: 1, 2a, 2b, 3, 4, 5, 6, 7, 8, 11, 13a, 13c, 13e, 13f, 14, 15, 18, 19, 20a, 20b, 21, 22, 23

4. Aquatic Life Criteria for Selenium, Ammonia, and Aluminum: The commission declined to adopt EPA's revised 304(a) Aquatic Life criteria for selenium, ammonia, and aluminum at this time; however, the division is committed to evaluating these new criteria. Studies are currently underway for each parameter to improve understanding of these criteria in the context of water quality conditions in Colorado and how these criteria may be adopted and implemented in Colorado in the future.

G. Antidegradation Designations

The commission reviewed all segments designated Use Protected to determine if the Use Protected designation was still warranted. Based upon available water quality data that meet the criteria of 31.8(2)b, the Use Protected designation was not removed from any segments.

The commission reviewed all Reviewable segments to determine if this Antidegradation designation was still warranted. Based upon available water quality data that fails to meet the criteria of 31.8(2)b, the Reviewable designation was not removed from any segments.

H. Ambient Quality-Based and Site-Specific Criteria-Based Standards

Ambient quality-based standards are adopted where a comprehensive analysis has been conducted demonstrating that elevated existing water quality levels are the result of natural conditions or are infeasible to reverse, but are adequate to protect the highest attainable use. All existing ambient-based standards were reviewed and no revisions were made.

Ambient-based standards were deleted from the following segment:

Blue River Segment 11 (COUCBL11):

The commission replaced the "existing quality" standards on French Gulch for acute and chronic lead with table value standards (TVS). Recent water quality data show that lead concentrations are achieving TVS in French Gulch. The commission recognizes that the 2016 accute and chronic cadmium criteria and zinc TVS are not currently attainable. The commission anticipates the necessary information will be collected to support the adoption of site-specific standards for cadmium and zinc in the next Upper Colorado basin hearing in 2024 or sooner if possible.

The 2016 revisions to Regulation No. 31.7 provide that where sources and causes of elevated pollutant levels are determined to be attributable to anthropogenic activity, a comprehensive alternatives analysis must be conducted to identify the extent to which conditions could be improved by implementing feasible pollution controls. Substantial anthropogenic impacts have been identified and studied in French Gulch. In partnership with EPA, Summit County and the Town of Breckenridge have made substantial investments in water quality studies and treatment efforts in Blue River Segment 11. Numerous non-point source clean-up projects have been completed, and in 2008 the Wellington Oro (W-O) wastewater treatment plant began operating. While a great deal of information and data were shared in this hearing, more recent information to characterize the effects of these changes is not currently available. The division will work with interested parties to complete a use attainability analysis for Segment 11, including a comprehensive alternatives analysis that meets the requirements in 31.7(1)(b)(ii), prior to the 2024 rulemaking hearing.

In 2003, in addition to the "existing quality" standards adopted on Segment 11, site-specific numeric standards were adopted downstream on Blue River segments 2a and 2b. The 4 μ g/L acute and chronic cadmium standards on Segment 2a were described as a "CERCLA treatment target concentration" (NWCCOG Rebuttal Statement). By contrast, the zinc standards on Segment 2a and cadmium and zinc standards on Segment 2b were adopted to protect various life stages of brown trout. No changes were proposed or adopted for Blue River segments 2a and 2b in this rulemaking hearing. However, because the W-O treatment facility has been operating for a decade, additional cadmium and zinc toxicity data have become available, and habitat improvements have been made in segments 2a and 2b, there is a need to review the cadmium and zinc standards as part of a use attainability analysis. The commission intends that the division and interested parties will work to identify appropriate cadmium and zinc standards to protect the highest attainable use on Blue River segments 2a and 2b as part of the effort to develop site-specific standards on Segment 11.

Treatment targets in the discharge control mechanism for the W-O facility were developed based on water quality standards in Blue River Segment 2a. The commission considered replacing the "existing quality" narrative standards for cadmium and zinc on Segment 11 with the EPA 2016 cadmium criteria and TVS, respectively, as recommended by the division but determined that it was best to retain the narrative standards until enough information is available to develop site specific standards in 2024. EPA's Superfund and Emergency Management Division will continue to monitor water quality in French Gulch and the Blue River to assess the performance of the W-O treatment facility and to assess whether there are other viable alternatives to improve water quality in French Gulch and the Blue River. In addition, EPA's Superfund and Emergency Management Division will continue to work cooperatively with interested parties to help derive appropriate cadmium and zinc standards to be proposed during the next basin rulemaking hearing.

The commission intends that the division will work with interested parties, which include EPA, CPW, and local governments, to leverage existing studies and ongoing data collection efforts to develop site-specific standards on Blue River segments 2a, 2b and 11 prior to the next basin review.

The commission reviewed all other existing site-specific standards. Based on an evaluation of the available data and information, no additional changes were adopted at this time.

I. Temporary Modifications

All existing temporary modifications were examined to determine if they should be allowed to expire or if they should be extended, either unchanged or with changes to the numeric limits.

The commission deleted temporary modifications on the following segments:

Blue River: 12
Eagle River: 1, 4
Roaring Fork River: 1
Yampa River: 1

To remain consistent with the commission's decisions regarding arsenic in section 33.50, all existing temporary modifications for arsenic of "As(ch)=hybrid" (expiration date of 12/31/21) were retained. In addition, for the following segments, an arsenic temporary modification was adopted for the 0.02 μg/L Water + Fish numeric standard in recognition of the uncertainty regarding "the water quality standard necessary to protect current and/or future uses" (31.7(3)). For arsenic, a known human carcinogen, the uncertainty is multi-faceted. For example, there are unresolved questions about existing water quality conditions (including spatial and temporal variation), the sources and causes of any numeric standard exceedances, and to what extent existing conditions may be a result of natural or irreversible sources. Likewise, with reference to the equations used to calculate the Water + Fish, Water Supply, and Fish Ingestion table value standards for arsenic (Policy 96-2), there are unresolved questions about the cancer slope, the bioconcentration or bioaccumulation factor, and the percentage of total arsenic in fish tissue that is inorganic. The commission recognizes the need to resolve the uncertainty in the arsenic standards and ensure that human health is adequately protected. Temporary modifications for arsenic were added to the following segments:

Yampa River: 5, 11, 13c (year-round application)

The commission adopted temporary modifications on the following segments:

Yampa River Segment 2b (COUCYA02b): Temporary modification of the chronic temperature standards.

The commission adopted a temporary modification of the chronic temperature standards on Segment 2b during July, August, September and November with an expiration date of December 31, 2024 and a narrative operative value of "current conditions". Steamboat presented information that shows instream non-attainment and a predicted compliance problem with the chronic water quality based effluent limit (WQBEL) for its WWTF during those months. The commission found that there is uncertainty about the extent to which the existing quality is the result of natural or irreversible human-induced conditions.

The adoption of this temporary modification is based on a predicted compliance problem in the next permit renewal, after January 2022. The commission would not typically adopt a temporary modification this far in advance of a predicted compliance problem, but is making an exception in this instance based on the work that Steamboat is already doing to characterize thermal drivers in the Yampa River and implement strategies to reduce stream temperatures. Steamboat's plan to resolve uncertainty includes an alternatives analysis for wastewater cooling technology at the city's WWTF, with an update to be presented to the commission at the December 2020 temporary modifications hearing. This information will inform whether a temporary modification continues to be justified or whether another regulatory tool such as a compliance schedule would be appropriate.

The operative value of the temporary modification is the narrative "current conditions." In future reviews, the commission will consider the need for changes to all elements of the temporary modification, including the operative value. Because the division is now working to develop methods to support derivation of numeric operative values and effluent limits, the commission anticipates that numeric operative values are likely to be adopted in the future as more data are available to characterize spatial and temporal variability in effluent and instream temperature conditions.

J. Temperature Standards

The commission revised temperature criteria in Regulation No. 31 in 2007, and again in 2010, based on the development of the Colorado Temperature Database and a lengthy stakeholder process. In 2014, the new temperature standards were adopted for all segments with an Aquatic Life use classification in Regulation No. 33. In June 2016, temperature criteria in Regulation No. 31 were further revised, including changes to the temperature table value standards, revision of warm water winter acute standards, and the addition of footnotes to protect lake trout and mountain whitefish.

- 1. Colorado Temperature Database Update: The Colorado Temperature Database was updated in 2016 to reflect the most recent research regarding the thermal requirements of Colorado's fishes, which allowed for adoption of an overall update of the cold and warm water acute and chronic temperature table value standards. In this hearing, the commission adopted revisions at 33.6(3) to bring this regulation into conformity with the revised table value standards found in Table I of Regulation No. 31.
- 2. Warm Water Winter Acute Table Values: The 2016 updates to the temperature database also allowed for the adoption of revisions to the warm water winter acute table values. When seasonal numeric temperature standards were first adopted in 2007, warm water winter acute and chronic standards were simply set at half the summer season table values, recognizing a pattern seen in cold waters. In 2016, the acute winter table values for warm water fish were revised based on lethal temperature thresholds established in laboratory experiments for fish acclimated to "winter" temperatures. Standards derived using this new method more accurately protect warm water fish from acute thermal effects in winter. In this hearing, the commission adopted revisions at 33.6(3) to bring this regulation into conformity with the revised warm water winter acute temperature table value standards found in Table I of Regulation No. 31.

3. Mountain Whitefish and Lake Trout Footnotes: In 2016, the commission adopted two footnotes to Table I of Regulation No. 31 to allow for additional thermal protection of mountain whitefish and lake trout where appropriate. These species were given special summer standards due to their thermal sensitivity and limited distributions. Lake trout occur in only a small number of lakes and reservoirs, and thermally-sensitive early life stages of mountain whitefish are known to occur only in certain cold waters during certain times of the year.

While early life stages of mountain whitefish are known to be the most thermally-sensitive, the time period these early life stages occur can vary from site to site. Mountain whitefish spawn in the fall, but timing of spawning, incubation, and emergence all depend on a variety of site-specific factors, including water temperature. The incubation period takes longer when water is colder, and that will delay hatching, emergence, and migration of fry. Depending on when spawning occurs and the water temperature in which the eggs are spawned and incubated, the incubation period could last through late spring.

Based on information provided by Colorado Parks and Wildlife (CPW), thermally-sensitive early life stages of mountain whitefish occur in certain water bodies in Regulation No. 33. Spawning begins in October and the fry life stage is complete by May in these water bodies. Therefore, only limited application of the mountain whitefish summer temperature standards to protect eggs, larvae, and fry is necessary.

In segments currently assigned CS-I temperature standards, the application of the mountain whitefish summer temperature standards is not necessary. The winter season included in CS-I temperature standards (i.e., October to May) is expected to cover the period when mountain whitefish early life stages are expected to occur (i.e., October to May). In addition, the CS-I winter standards are more stringent than the mountain whitefish summer standards. Therefore, because the CS-I temperature standards are protective of mountain whitefish early life stages, the commission did not adopt the mountain whitefish summer standards on segments with CS-I temperature standards in Regulation No. 33. While the commission made no changes to the temperature standards, mountain whitefish spawning and early life stages are known to occur in the following CS-I segments:

Upper Colorado River: 4 (Grizzly Creek and No Name Creek), 7b (Piney River) Eagle River: 9a (Eagle River from Gore Creek to Squaw Creek) Roaring Fork River: 3a (Roaring Fork River from Snowmass Creek to the Fryingpan River Threemile Creek, Fourmile Creek), 6 (Fryingpan River), 8 (Crystal River)

Yampa River: 2a (Yampa River from Stagecoach Reservoir to Oak Creek), 3 (Upper Bear River), 8 (Elk River), 20a (Mad Creek and tributaries to the Elk River)

The commission adopted standards to protect mountain whitefish on a season- and site-specific basis where information provided by CPW biologists indicated that thermally-sensitive early life stages of mountain whitefish are known to occur. CS-II summer temperature standards typically apply from April to October. Because mountain whitefish spawning and early life stages are expected to occur from October to May, the mountain whitefish summer temperature standards were applied for the months of April, May, and October. The CS-II table value standards were retained for the remainder of the summer (i.e., June through September). Standards to protect mountain whitefish were not adopted where a site-specific temperature standard was in place. Temperature standards to protect mountain whitefish were applied to the following CS-II segments for the months of April, May, and October:

Upper Colorado River: 3, 7a Roaring Fork River: 3c Yampa River: 2b, 13b, 13f

In this hearing, the commission adopted standards to protect lake trout on a site-specific basis where information provided by CPW indicated that this species occurs and protection from thermal impacts is appropriate. Adoption of lake trout standards are dependent on two factors: the existing temperature tier (cold lake or cold large lake) and whether a site-specific temperature standard was already in place. For cold lakes, only the chronic lake trout standard was adopted, as the acute cold lake temperature standard (21.2°C) is more protective than the acute lake trout standard (22.4°C). The chronic lake trout standard (16.6°C) is more protective than the chronic cold lake temperature standard (17.0°C). For cold large lakes, both acute and chronic lake trout standards were adopted unless there was a site-specific standard in place. Acute and chronic lake trout standards (22.4 and 16.6°C, respectively) are more protective than acute and chronic cold large lake standards (24.2 and 18.3°C, respectively). Lake trout standards were not proposed where an existing site-specific standard is applied.

Temperature standards to protect lake trout were applied to the following segments:

Upper Colorado River: 11 (Rim Lake MWAT), 12 (Grand Lake DM and MWAT; Lake Granby DM), 13 (Deep Lake MWAT; Williams Fork Reservoir DM) Blue River: 23 (DM and MWAT on Green Mountain Reservoir) Roaring Fork River: 11 (Savage Lake and Ivanhoe Lake MWAT, 12 (Ruedi Reservoir DM) North Platte River: 8 (Blue Lake, Lower Big Twin Lake, and Katherine Lake MWAT), 9 (Upper Big Creek Lake and Lower Big Creek Lake DM and MWAT; Agua Fria Lake MWAT)

4. Refinement of Temperature Standards: Since temperature criteria were revised in Regulation No. 31 in 2007, the division and others have worked to ensure that appropriate temperature standards were adopted for segments throughout the state. At times, this effort to assign temperature standards has also included reevaluation of the existing Aquatic Life use classifications, and use revisions have been proposed and adopted where appropriate. Incremental progress continues as temperature standards are refined based on the experience and data gains that have occurred since initial adoption of temperature standards.

In the 2016 Regulation No. 31 hearing, the commission declined to adopt the division's proposal for statewide solutions for temperature transition zones and shoulder seasons, in favor of a basin-by-basin consideration of temperature standards on a site-specific basis. The basin-by-basin approach was selected as it allows for consideration of temperature attainability and ambient quality-based site-specific temperature standards issues in the context of multiple lines of evidence and site-specific contravening evidence. The sections below describe the considerations and methods used to develop and support the site-specific temperature standards revisions adopted in this basin hearing.

i. <u>Existing Uncertainty</u>: While a great deal of progress has been made regarding the development and implementation of temperature standards, uncertainty still remains for some segments due to the lack of site-specific temperature or aquatic community information or conflicts between the lines of evidence. To address the uncertainty, additional data collection has been conducted where possible, and all new information collected since the last basin review was evaluated.

- ii. Attainability: Following the commission's 2016 direction to consider attainability issues using a basin-by-basin approach, the division reviewed all available information to identify segments where attainability issues may exist based upon available instream temperature data and expected in-stream summer maximum weekly average temperatures (MWATs). Expected MWATs were determined using regression analysis of temperature and elevation and the NorWeST Stream Temperature Regional Database and Model. This screening found that many segments, or portions of segments, were not expected to attain the summer or winter chronic temperature standards. These waters were targeted for additional review, as were waters listed as impaired for temperature on the 2016 303(d) List.
- iii. Aquatic Life Use: For these selected segments, the division conducted a comprehensive, site-specific review of the existing use classification and temperature standards. Fishery data provided by CPW was evaluated to identify fish species expected to occur, whether reproduction is expected (i.e., stocked, transient, or resident species), age class structures, and any other relevant information regarding aquatic life communities. For segments where little or no information on fish species expected to occur existed, fish population data from adjacent and representative water bodies was utilized when possible.
- iv. <u>Thermal Drivers</u>: In cases where temperature standards to protect the highest attainable use were determined, but the temperature standards were not attainable, site-specific factors that influence in-stream temperature were evaluated to identify any correctable anthropogenic thermal sources. All available data on temperature, hydrology, hydro-modification, canopy cover, groundwater influence, point and non-point thermal sources, and other relevant information was reviewed.

Temperature standards have been implemented and reviewed in Regulation No. 33 during three triennial reviews - 2008, 2014, 2018. The level of emphasis and effort dedicated to understanding the aquatic community and temperature standards implementation during these reviews has resulted in a great deal of progress and application of appropriate temperature standards across the basin. Accordingly, fewer site-specific temperature standards and/or corresponding Aquatic Life use revisions were necessary compared to previous basin reviews.

Based upon information regarding the species expected to occur, temperature data, physical habitat, land cover/use, groundwater inputs, flow conditions, and all other available information regarding thermal drivers, the commission adopted revisions of temperature standards for the segments listed below where water quality is not feasible to improve or where the thermal regime is the result of natural conditions, but is sufficient to protect the highest attainable use.

The following segments were changed from CS-II to CS-I:

Roaring Fork: 3a (Threemile Creek)

The following segments were changed from CS-I to CS-II:

Upper Colorado River: 5, 7d, 7e

Moving forward with this site-specific approach, the commission encourages the division to consider whether any additional information would be appropriate to be included in the use attainability analyses.

K. Standards Corrections and Clarifications

- 1. **Duration of Nitrite Standard:** The commission corrected the duration of the nitrite standard from chronic to acute on all segments. When the commission adopted the new format for tables in 2016, all nitrite standards were incorrectly included in the "chronic" standards column.
- 2. Uranium: To improve the clarity of the regulation, the commission included references to the basin-wide uranium standards at 33.5(3) in the Appendix 33-1 tables. For the acute and chronic uranium standards for all segments, the commission included a reference to 33.5(3) to clarify that the basic standard at 33.5(3) applies to all waters in Regulation No. 33. Because these standards already applied basin-wide, there is no practical effect of this change.
- Recoverable notation (T) to the mercury Aquatic Life and Water Supply standards. The standards apply to the total recoverable fraction of all forms, both organic and inorganic, of mercury in water. Multiple forms of mercury exist in the environment and these forms differ dramatically in both their potential to cause toxic effects and their availability for uptake by organisms. Certain aquatic conditions can lead to the conversion to the highly bioaccumulative, toxic, organic form (methylmercury). The mercury standards are designed to provide protection from the accumulation of those toxic forms and therefore, the standards address all forms of mercury. The addition of the Total Recoverable notation does not represent a change in current Colorado policy or procedures.

L. Correction of Typographical and Other Errors and Segmentation Clarification

The following edits were made to segment descriptions to improve clarity and correct typographical errors:

- The formatting of the tables in Appendix 33-1 was modified to include only parameters that have been adopted in a majority of segments. The tables include rows for physical and biological, inorganic and metals for all parameters which the commission commonly adopts into segments. In segments where there is no numeric standard for a commonly adopted parameter, a blank row for that parameter is included to show the commission's site-specific decision not to adopt a numeric standard for that parameter. The commission removed beryllium and aluminum from all segments where no standard has been adopted because these parameters have only been adopted on a site-specific basis, rather than basin-wide.
- An acronym list was added to the front of Appendix 33-1 to improve the clarity and usability of the tables.
- The order of segments presented in 33.6(4) was changed to align with the order of segments in Appendix 33-1.
- Information was added at 33.6(5) specifying that the ammonia, nitrate, and nitrate standards are to be reported as nitrogen. This is consistent with the description of the standards as they are included in Table II of Regulation No. 31.
- The segment descriptions in Appendix 33-1 were reviewed, and minor revisions were made to several segments to correct grammar, punctuation, and typos. The purpose of these changes was to improve clarity and consistency of the segment descriptions.

• Revisions were made to the sentence structure of these segments. The purpose of these changes was to improve clarity and consistency of the segment descriptions.

Upper Colorado River: 7c North Platte River: 4b

 Coordinates were added to the segment descriptions to facilitate location of segment boundaries.

Upper Colorado River: 6b, 10a, 10b, 10c

Blue River: 2a, 2b, 10, 11, 13 Eagle River: 2, 3, 5a, 5b, 6, 7a, 7b

Roaring Fork River: 3b North Platte River: 4b

Yampa River: 6, 7, 11, 13g, 14, 15, 20b

- Upper Colorado River Segment 1: The segment description was amended for clarity and consistency.
- Upper Colorado River Segment 2: An exception for Segment 5 was added to reflect a new segment.
- Upper Colorado River Segment 4: The exception for Segment 1 was removed for clarity.
- Upper Colorado River Segment 6a: The segment description was amended for clarity.
- Upper Colorado River Segment 7a: Exceptions for segments 7d and 7e were added to reflect new segments.
- Upper Colorado Segment 10a: An exception for Segment 2 was added to correct a previous omission.
- Upper Colorado segments 10b and 10c: The segment description was amended to match the diversion records in Division of Water Resources.
- Upper Colorado Segment 11: The segment description was amended for clarity.
- Upper Colorado Segment 13: The segment description was amended for clarity.
- Blue River segments 2a and 2b: The reference to Summit County Road 3 was removed and replaced with Coyne Valley Road to improve clarity.
- Blue River Segment 4a: Wetlands were added to the segment description to correct a previous omission. Exceptions for Segments 2c, 6a, and 16 were added, and the exception for Segment 5 was removed.
- Blue River Segment 12: The arsenic standard was corrected from 0.02 μg/l to 0.02-10 μg/l to reflect the existing uses.
- Blue River Segment 21: The segment description was amended for clarity and consistency.
- Eagle River Segment 3: An exception for Segment 4 was added to correct a previous omission.

- Eagle River segments 7a and 7b: Minturn Middle School was replaced with Minturn
 Water Facility in the segment description to reflect a current landmark. The middle school
 is no longer in operation. The exception for Segment 1 was removed to correct a
 previous error.
- Eagle River segments 8, 9a and 9b: Dates for temperature table value standards were added to clarify the temperature standards that are effective outside of seasonal sitespecific standards. A note was added to the daily maximum on 9b to clarify seasonal standards are effective.
- Eagle River Segment 12: An exception for Segment 1 was added for clarity.
- Eagle River Segment 13: The segment description was amended for clarity.
- Roaring Fork River Segment 3a: The exception for Segment 3c was removed to reflect Threemile Creek is now included in Segment 3a, and the exception for Segment 10 was changed to 10b to reflect current segmentation.
- Roaring Fork River Segment 5: An exception for Segment 1 was added to correct a previous omission.
- Roaring Fork River Segment 7: The segment description was amended for clarity.
- Roaring Fork River Segment 8: Exceptions for Segments 10a and 10b were added to reflect current segmentation.
- Roaring Fork River Segment 11: The segment description was amended for clarity.
- North Platte River Segment 4a: The source of the segment was added for clarity, and exceptions for Segments 5a and 5b were added to correct previous omissions.
- North Platte River Segment 7a: The reference to the outlet of Spring Creek Reservoir was removed to reflect current segmentation.
- North Platte River Segment 8: The segment description was amended for clarity.
- North Platte River Segment 9: The site-specific MWAT standard for Lake John was corrected to from 1.2 to 21.2 to reflect the standard adopted by the commission in 2014.
- Yampa River Segment 2a: The segment description was amended for clarity. The mainstem of the Yampa River begins at the confluence of the Bear River and Phillips Creek.
- Yampa River Segment 3: An exception was added for Segment 1, and exceptions for segments 8, 13a-f and 19 were removed to reflect current segmentation.
- Yampa River Segment 4: The nutrient note was added to correct a previous omission.
- Yampa River Segment 5: The segment description was amended to improve clarity.
 Chimney Creek becomes Phillips Creek prior to reaching the Yampa River.
- Yampa River Segment 8: The segment description was amended for clarity. The West Fork Elk River originates at the Elk River and confluences with the Yampa River.
 Previously it was unclear if the West Fork was included with the Elk River in Segment 8.
 The exception for 20b was removed to reflect current segmentation.

- Yampa River Segment 12: An exception was added for Segment 8 and 20a to improve clarity and consistency.
- Yampa River Segment 13a: The segment description was amended to improve clarity and consistency with Segments 13b and 13c. Over time tributaries to Trout Creek have been moved to other segments, and it was unclear which tributaries to Trout Creek were included in 13a.
- Yampa River Segment 13b: The segment description was amended for clarity. Wetlands
 were added to Fish Creek and Middle Creek to correct a previous omission. The
 erroneous trout standards were removed. The assessment location and temporary
 modification language was amended for clarity.
- Yampa River 13c: The segment description was amended for clarity and consistency with 13a and 13b. The boundary for tributaries to Trout Creek was moved from County Road 179 approximately 1500 feet downstream to the confluence with Fish Creek to improve clarity.
- Yampa River Segment 13d: The assessment location language was amended for clarity.
- Yampa River Segment 13e: The assessment location language was amended for clarity.
- Yampa River Segment 13g: The segment description was amended for clarity. Cow Camp Creek is an informal name not included on maps. The erroneous trout standards were removed.
- Yampa River Segment 13h: The spaces for total cadmium and total silver were removed from the table to correct a formatting error. Acute cadmium and chronic silver were added to replace the missing standards to protect Aquatic Life use.
- Yampa River Segment 13i: The temporary modification language was modified for clarity.
 The assessment location was removed to reflect assessment locations adopted by the commission in 33.6(4).
- Yampa River Segment 13j: The seasonal qualifier for selenium was removed to reflect selenium standards as adopted by the commission.
- Yampa River Segment 14: The segment description was amended for clarity.
- Yampa River Segment 15: The segment description was amended for clarity. Dry Fork Elkhead Creek confluences with Elkhead Creek prior to the Yampa River. The erroneous trout standards were removed.
- Yampa River Segment 18: The segment description was amended for clarity. The
 mainstem of the Little Snake River is also within the Lower Colorado River basin. The
 new description clarifies that tributaries within Segment 18 are within the Upper Colorado
 River basin.
- Yampa River Segment 20a: This segment description was amended to clarify the
 beginning of the segment is upstream of the confluence with the Elk River. Previously,
 tributaries to the Yampa River from above the confluence with the Elk River on National
 Forest land were not explicitly included in any segment, and 20a was inconsistently
 applied to National Forest lands.
- Yampa River Segment 23: The erroneous trout standards were deleted.

33.63 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 9, 2019 RULEMAKING; FINAL ACTION JANUARY 13, 2019 EFFECTIVE DATE JUNE 30, 2020

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the commission reviewed the status of temporary modifications scheduled to expire before December 31, 2021 to determine whether the temporary modification should be modified, eliminated, or extended.

For the temporary modifications set to expire after the effective date of this hearing, the commission reviewed progress toward resolving the uncertainty in the underlying standard and/or the extent to which conditions are a result of natural or anthropogenic conditions, and evaluated whether the temporary modifications were still necessary.

A. Temporary Modifications for Standards Other than Arsenic

The commission extended the following temporary modification:

Blue River Segment 14 (COUCBL14): temporary modification of the chronic molybdenum standard (expires 6/30/2023). The commission extended this temporary modification from 6/30/2020 to 6/30/2023 to provide time for information to become available to support development of an updated molybdenum standard to protect the Water Supply use. In addition, Climax Molybdenum Company continues to make progress to investigate molybdenum sources/source control, influent control measures, water management alternatives, available blending, potential treatment and treatment optimization options, and the expected effluent quantity and quality that could be achieved with each alternative.

An extension of the temporary modification is needed due to the delay in the release of the updated version of the Agency of Toxic Substances and Disease Registry's (ATSDR) draft toxicological profile for molybdenum, which will inform development of an updated molybdenum table value standard. It is unknown when the ATSDR toxicological profile will be available, which has resulted in the indefinite continuation of the commission's consideration of a revised molybdenum standard. As a result of this delay, the commission extended the "current condition" temporary modification to June 30, 2023. When the ATSDR toxicological profile becomes available, a hearing to consider a revised molybdenum standard will be scheduled expeditiously.

During the 2018 temporary modifications rulemaking hearing (see 33.61), the commission directed the division to develop a numeric operative value(s) to replace the existing narrative operative value of "current condition" if this temporary modification was extended. The intended purpose of this change was to establish a baseline condition which must be preserved in Blue River Segment 14 and facilitate future evaluations of status quo preservation in the waterbody and effluent. However, due to differences in statistical methods and the form of molybdenum used in standards assessment versus permitting, the commission determined that adoption of a numeric operative value may inadvertently cause permit compliance issues, and therefore retained the narrative "current condition" operative value for this temporary modification.

Maintenance of status quo will instead be addressed through enforceable discharge permit limits (WQCD Exhibit L) and evaluation of instream and effluent data, with the baseline instream and effluent condition characterized in this and previous (33.61) statement of basis. In addition, the division will evaluate loading and may include permit limits or conditions in permitting as appropriate (per 31.9(4)) to address loading concerns to maintain status quo and protect existing uses.

To address the requirement to maintain status quo in effluent, the division has developed implementation guidance to translate narrative "current condition" temporary modifications into numeric limits in discharge permits using past performance data as a baseline. Climax restarted operations and began producing molybdenum concentrate in May 2012. The "current condition" temporary modification was adopted in June 2014, after operations resumed at Climax. For the purposes of molybdenum in Segment 14, the relevant baseline is the water quality condition represented by data collected from May 2012 to June 2014, when the temporary modification was originally adopted. While enforceable numeric effluent limits will be developed by the division using the division's implementation method (WQCD Exhibit L), to facilitate the commission's evaluation of effluent status quo maintenance during future reviews of this temporary modification, the 50th and 95th percentiles of effluent molybdenum concentrations (at Outfall 001A) from the May 2012 to June 2014 period of record are 490 μg/L and 1610 μg/L, respectively. Use of the ambient standards assessment methodology to compare the baseline period effluent quality (May 2012 to June 2014) to current effluent quality (July 2014 to July 2019) indicates that the lower confidence limit of the 50th and 95th percentile molybdenum concentrations are currently not higher than the baselines. Based on this information, at this time, the commission finds "status quo" is currently being preserved in effluent.

To address the requirement to maintain status quo instream, the 50^{th} percentile molybdenum concentration of $170~\mu g/L$ in Tenmile Creek from the May 2012 to June 2014 period of record will be used as a baseline to compare to data collected after the temporary modification was adopted in June 2014. Comparisons are to be conducted using the ambient standards assessment technique in Appendix B of the 303(d) listing methodology and using water quality data from the two sites on Tenmile Creek near Frisco (Climax site "Frisco 3^{rd} Ave" and Denver Water site "Ten Mile Creek above Dillon"). Use of the ambient standards assessment methodology to compare the baseline period water quality (May 2012 to June 2014) to current water quality (July 2014 to September 2019) indicates that the lower confidence limit of the 50^{th} percentile molybdenum concentration is currently not higher than the baseline. Based on this information, at this time, the commission finds "status quo" is currently being preserved instream.

Climax will continue to study molybdenum source management and treatment to identify options that are technically and economically feasible, and will further its investigations into options to maintain water quality at the best level that is reasonably achievable; this information may be used by the division to develop permit limitations or other permit conditions, per 31.9(4)(c). The commission also expects that Climax will continue to provide written reports detailing its ongoing molybdenum investigations to all stakeholders each year by July 1. Further, the commission encourages Climax to continue sharing information and data with the public and interested parties on a routine and ongoing basis.

B. Temporary Modifications for Arsenic

The temporary modification of the chronic arsenic standard, which applies to numerous segments with a standard of $0.02~\mu g/l$ to protect the Water + Fish use, was extended from 12/31/2021 to 12/31/2024. No changes were made to the temporary modification operative values at 33.6(2)(c). For discharges existing on or before 6/1/2013, the temporary modification remains at As(ch)=current condition and numeric effluent limits will be developed by the division using the division's implementation method (WQCD Exhibit L). For new or increased discharges that commence on or after 6/1/2013, the temporary modification remains at $0.02-3.0~\mu g/L$ (total recoverable). The extension provides time to resolve the uncertainty in the underlying standard for arsenic to protect human health. Significant uncertainty remains regarding the appropriate standard to protect the use and the extent to which ambient levels of arsenic are the result of natural or irreversible conditions. In addition, there is widespread instream non-attainment of the underlying standard and predicted or demonstrated compliance problems with permit limits based on the underlying standard, as demonstrated in the division's Prehearing Statement.

It is anticipated that the uncertainty regarding the appropriate underlying standard for arsenic to protect human health will be resolved by June 2024, with the adoption of new statewide arsenic use-based standards. The division presented (WQCD Exhibit E) a detailed plan to resolve the multifaceted uncertainty for arsenic. The plan includes conducting a field study to investigate the proportion of inorganic (versus total) arsenic in the tissue of fish collected from Colorado waters, deriving a bioaccumulation or bioconcentration factor for arsenic, appropriate for use in Colorado, and characterizing ambient levels of arsenic in surface waters and groundwater statewide. As discussed below, the division will also be gathering, through permit requirements, targeted data from facilities benefiting from the arsenic temporary modification (WQCD Exhibit D). These data will help the division to better understand the contribution of arsenic in effluent from permitted facilities to ambient levels of arsenic in Colorado waters and will inform the extent to which ambient levels of arsenic are the result of natural or irreversible conditions.

Effluent arsenic concentration data from facilities throughout the state demonstrate that many facilities will likely have issues meeting effluent limits based on the anticipated revised arsenic water quality standard to protect human health. As a result, there is a widespread need to make progress to understand sources of arsenic and options for source control and treatment. To ensure such progress is made, when implementing the "current condition" temporary modification in permits, the division will include additional permit Terms and Conditions, which may include requirements for additional monitoring, source identification, and characterization of source control and treatment options for reducing arsenic concentrations in effluent (WQCD Exhibit D). Under the duration of the temporary modification, facilities would not be required to implement facility improvements to meet a specified effluent limit; however, facilities may be required to evaluate arsenic source control and treatment options for their facility. For purposes of evaluating options to reduce arsenic concentrations in effluent, the arsenic treatment removal recognized in the 2013 Arsenic Rulemaking (3 µg/L) can be used as a point of reference until the uncertainty in the underlying standard is resolved. Implementation guidance for these requirements was included in WQCD Exhibit D. These requirements are reasonable and would not cause undue economic burden for facilities, but will ensure that progress is being made toward future attainment of the underlying standards and protection of the classified uses. Implementation of these requirements would function to increase the amount of time facilities would have for long-term planning and encourage data collection that would facilitate implementation of the most appropriate source reduction and treatment options and selection of the most appropriate regulatory pathways once the new underlying standard is adopted for arsenic.

C. Implementation of Current Condition Temporary Modifications into Permits

Several parties to the hearing raised concerns regarding the implementation of current condition temporary modifications into permits, as described in WQCD Exhibit L. The commission was persuaded that the division has existing legal authority to proceed with implementation of these temporary modifications in the absence of a rule or policy addressing this specifically. However, the commission believes it would be beneficial to develop a policy, and therefore requested that the division work toward developing a division policy about how the division will proceed with implementing current condition temporary modifications into permits. The commission requested that the division report back to the commission next year, potentially as part of the division's annual update to the commission regarding the 10-Year Water Quality Roadmap, regarding what the division believes is a reasonable timeline and process for developing such a policy. The commission encouraged the division to continue with its current efforts at transparency and implementation of current condition temporary modifications consistent with the evidence presented in the rulemaking, including Exhibit L, into permits prior to the development of a policy.

33.64 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 9, 2019 RULEMAKING; FINAL ACTION JANUARY 13, 2019 EFFECTIVE DATE JUNE 30, 2020

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

Cadmium is a naturally-occurring element frequently found alongside other metals, and numerous treatment techniques are available to remove cadmium from wastewater. Cadmium has both acute and chronic effects on aquatic life, and can negatively impact survival, growth, reproduction, immune and endocrine systems, development, and behavior.

The commission revised the hardness-based cadmium table value standards to protect the Aquatic Life use. The updated standards incorporate toxicity data that have become available since the cadmium standards were last updated in the 2005 Regulation No. 31 rulemaking hearing. The updated standards are based on the United States Environmental Protection Agency's (EPA) "Aquatic Life Ambient Water Quality Criteria – 2016" and toxicity data that have become available since EPA's recommended criteria were released in 2016.

The updated standards include two acute equations (acute(cold) and acute(warm)) and one chronic equation. The acute(cold) and chronic equations are the same as the acute and chronic criteria recommended by EPA in 2016. The acute(cold) equation, which is lowered to protect trout, is protective of trout and other sensitive cold water species and applies in segments classified as Aquatic Life Cold Class 1 or 2. The acute(warm) equation, which is not lowered to protect trout, is protective of warm water species and applies in segments classified as Aquatic Life Warm Class 1 or 2. The chronic equation is protective of both cold and warm water aquatic life and applies in segments classified as either Aquatic Life Cold Class 1 or 2 or Aquatic Life Warm Class 1 or 2.

Compared to the previous cadmium table value standards, the updated standards are generally less stringent. The acute(cold) standard is less stringent than the previous acute(trout) standard when water hardness is greater than 45 mg/L CaCO₃. The acute(warm) equation is less stringent than the previous acute standard when water hardness is greater than 101 mg/L CaCO₃. The updated chronic equation is less stringent than the previous chronic standard at all water hardness values.

In the past, Colorado has had separate acute equations for waters with trout and waters without trout. The updated standards include separate acute equations for cold waters (both with and without trout) and warm waters. This change in approach is due to the addition of toxicity data showing that sculpin, which inhabit cold waters, are also sensitive to cadmium. To ensure protection of sculpin and other sensitive cold water aquatic life in waters where trout are absent, the acute(cold) equation applies to all cold waters. As a result, the acute trout (tr) qualifier for cadmium is no longer needed on select cold water segments and was deleted from all segments where it had applied.

During the 2019 basin review, the commission adopted EPA's 2016 recommended criteria as site-specific standards in select cold water segments. The updated table value standards for cold waters are the same as EPA's 2016 recommended criteria. Therefore, to reflect the commission's state-wide adoption of the updated table value standards, the cadmium "SSE" were replaced with "TVS" on the following segments:

Blue River: 2c, 4a, 6a, 7, 12

Eagle River: 2, 5a (acute), 5c (acute), 6

33.65 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 14, 2020 RULEMAKING; FINAL ACTION FEBRUARY 8, 2021; EFFECTIVE DATE JUNE 30, 2021

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the commission reviewed the status of temporary modifications scheduled to expire before December 31, 2022 to determine whether the temporary modification should be modified, eliminated, or extended.

For the temporary modifications set to expire after the effective date of this hearing, the commission reviewed progress toward resolving the uncertainty in the underlying standard and/or the extent to which conditions are a result of natural or anthropogenic conditions, and evaluated whether the temporary modifications were still justified.

The commission took no action on the following temporary modifications:

Yampa River Segment 2b (COUCYA02b): temporary modification of the chronic temperature standard (expires 12/31/2024). As requested by the commission in 2019 at 33.62(I), the City of Steamboat Springs provided an update on its work to resolve the uncertainty in the chronic temperature standard. Steamboat continues to make progress on resolving the uncertainty and eliminating the need for the temporary modification and determining the extent to which the existing quality is the result of natural or irreversible human-induced conditions. The commission made no change to the expiration date, as the original time allotment was deemed adequate to resolve the uncertainty.

The operative value of the temporary modification is the narrative "current conditions". In future reviews of this temporary modification, the commission will use the following values to compare to the most recent five years of representative effluent data to determine if effluent quality is maintained and ensure that the existing uses are protected. These values are for use by the commission in future reviews of the temporary modification and are not intended to direct implementation of "current condition" temporary modifications in permits:

- 1) 7/1 9/30, effluent MWAT = 20.8°C (based on data for July, August, and September from 2017 2020)
- 2) 11/1 11/30, effluent MWAT = 16.5°C (based on data for November from 2017 2019).

Data to characterize the status quo of the waterbody are being collected, but adequate data are not available at this time. It is the commission's expectation that as more data become available to characterize instream waterbody temperature conditions, representative numeric values to represent instream status quo will be determined as soon as possible for the commission's use in future reviews of this temporary modification.

Yampa River segments 13e, 13g, 13i, 13j (COUCYA13e, COUCYA13g, COUCYA13i, COUCYA13j): temporary modifications of the chronic selenium standard (expire 12/31/2022). Peabody Sage Creek Mining, LLC, Seneca Properties, LLC, and Twentymile Coal, LLC (Peabody) provided an update to the commission on progress being made on its selenium study and its plan to develop a proposal for site-specific selenium standards in the December 2021 temporary modifications rulemaking hearing. Peabody provided data that demonstrated instream nonattainment of the underlying standard and demonstrated or predicted water quality-based effluent limit compliance problems.

Peabody's plan to resolve uncertainty includes extensive data collection to develop site-specific selenium standards. In previous hearings, the commission has found there was uncertainty regarding the water quality standards necessary to protect current and/or future uses, and uncertainty about the extent to which existing quality is the result of natural or irreversible human-induced conditions. Therefore, to resolve the uncertainty regarding reversibility, the commission expects that any future proposal by Peabody will adequately characterize the extent to which existing conditions are human-induced and include an evaluation of the feasibility of reversing anthropogenic impacts.

Because Peabody intends to propose site-specific standards at the December 2021 temporary modifications rulemaking hearing, the commission did not adopt numeric operative values to determine if the status quo is being maintained during the temporary modification. The commission does not intend that these temporary modifications will be extended. However, if Peabody's proposal is delayed, representative numeric values to characterize instream and effluent status quo to facilitate future evaluations of status quo preservation and ensure existing use protection will be adopted at the next temporary modifications hearing.

The commission deleted temporary modifications on the following segments:

Yampa River segments 13b, 13d, 13h (COUCYA13b, COUCYA13d, COUCYA13h): temporary modifications of the chronic selenium standard (expire 12/31/2022). The commission deleted the temporary modifications on segments 13b and 13d because instream selenium data show that the underlying chronic selenium standard is being attained. The commission also deleted the temporary modification on Segment 13h due to a lack of evidence of a demonstrated or predicted water quality-based effluent limit compliance problem on Segment 13h or upstream in Segment 13d.

33.66 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 14, 2020 RULEMAKING; FINAL ACTION FEBRUARY 8, 2021; EFFECTIVE DATE JUNE 30, 2021

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

A. Adoption and Re-examination of Discharger-Specific Variances

In 2010, the commission adopted the discharger specific variance (DSV) provisions at Regulation 31.7(4), which allow a temporary water quality standard to be adopted in cases where water quality-based effluent limits (WQBELs) are not feasible to achieve. A DSV is a hybrid standard that maintains the long-term water quality goal of fully protecting all designated uses, while temporarily authorizing an alternative effluent limit (AEL) to be developed for a specific pollutant and specific point source discharge where compliance with the WQBEL is not feasible.

Pursuant to 40 CFR 131.14(b)(1)(v)-(vi), the commission must re-evaluate every DSV with a duration longer than five years and provide EPA notice of the results within 30 days of the completion of the reevaluation process. If the commission does not complete this action, the federal regulation states that the DSV will no longer be the applicable water quality standard for purposes of the Clean Water Act. This reevaluation is consistent with commission Regulation 31.7(4), which requires that the commission reexamine all DSVs not less than once every three years.

B. <u>Yampa River Segment 7</u>

The commission adopted a DSV for Yampa River Segment 7 (COUCYA07) for total inorganic nitrogen (TIN) that represents the highest degree of protection of the classified use that is economically feasible for the Town of Oak Creek. The AEL is an acute (1-day) concentration of 15 mg/L, which is to be achieved by the end of the variance through implementation of the selected alternatives. The DSV requires that the Town of Oak Creek's TIN effluent concentrations do not exceed the current condition at any time during the variance. To ensure that the requirements of the DSV do not result in any lowering of currently attained ambient water quality, the commission relies on the implementation of numeric initial effluent limits to be developed in a method consistent with the division's policy for current condition temporary modifications (Clean Water Policy 13). The DSV will expire on 6/30/2026.

A comprehensive alternatives analysis demonstrated that compliance with the TIN WQBEL would cause substantial and widespread adverse social and economic impacts in the area where the discharge is located. Treatment that would allow the Town of Oak Creek to meet the TIN WQBEL, such as replacing the lagoon with a mechanical plant, would result in user fees that exceed the community's ability to pay. The commission determined that any alternative that would result in user fees exceeding 1.5% of median household income for the Town of Oak Creek's residents was economically infeasible at this time, due to the current economic conditions in the Town of Oak Creek, including a high level of debt-per capita and a local median household income that is significantly lower than the State's average.

The commission adopted a DSV with an alternative effluent limit that is based upon the best feasible alternative identified for the Town of Oak Creek. This alternative includes modification of the operation of the plant to recycle a portion of the treated effluent from the moving bed bioreactor (MBBR) unit back to the anaerobic cell, where conditions favor denitrification. The five year term of this DSV provides time for the Town of Oak Creek to run a pilot test to evaluate the effectiveness of this approach. If recycling the effluent results in reductions in TIN concentrations, the recycle will be continued and optimized through the term of the variance. If no improvement is observed within the first two years, the remaining three years of this DSV will be used to modify the MBBR unit to perform both nitrification and denitrification.

Currently, there is significant seasonal variability in influent flows to the wastewater treatment plant that is believed to be due to groundwater inflow and residential sump pump contributions to the Town of Oak Creek's collection system. During the term of this variance, the Town of Oak Creek will be taking steps to reduce groundwater inflow, which will reduce influent volume.

At the re-evaluation of this DSV at the 2024 Upper Colorado Basin rulemaking hearing, the commission will review the Town of Oak Creek's progress towards achieving the alternative effluent limit, and will determine whether the requirements of the DSV continue to be the highest attainable condition. The requirements of the DSV will be reviewed during the re-evaluation rulemaking hearing, and will either remain as the AEL identified at the time of the adoption of the variance or be modified to reflect the highest attainable condition. Because there is significant uncertainty in the final effluent quality that will be achieved, the Town of Oak Creek will collect additional data to characterize the effectiveness of treatment and may request a hearing before the commission to modify the DSV before it is re-evaluated or expires. If it remains infeasible for the Town of Oak Creek to achieve TIN WQBELs at the end of the variance, a subsequent DSV may be appropriate.

33.67 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; JUNE 14-15, 2021 RULEMAKING; FINAL ACTION AUGUST 9, 2021; EFFECTIVE DATE DECEMBER 31, 2021

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

I. DISCHARGER-SPECIFIC VARIANCES

The commission deleted subsections 33.6(6) (a) and (b), which described the regulatory basis and implementation of discharger-specific variances, because this information was revised and consolidated into 31.7(4).

II. CLEANUP, CORRECTIONS, AND CLARIFICATIONS

A. Sulfate

33.6(2)(b)(ii) was edited to clarify that the sulfate standard applies to dissolved sulfate concentrations. As an ion, sulfate is found in water only in the dissolved state; therefore, either unfiltered or filtered samples may be used to determine sulfate concentrations.

B. Reformat Hardness-based Equations

The following changes were made to the hardness-based table value standard equations at 33.6(3) to improve compatibility with Excel and align with corrections made to Regulation No. 31:

- Acute and chronic aluminum, chromium III, copper, lead, manganese, nickel, silver, uranium, and zinc: the first bracket was replaced with the symbol * and the second bracket was deleted from the equation.
- Acute and chronic cadmium: extra spaces were removed.
- Acute and chronic lead: the brackets were deleted and a parenthesis was moved within the conversion factor.
- Acute silver: ½ was replaced with 0.5* in the equation.

C. Chromium Footnote

The commission revised Footnote 6 of the Table Value Standards table to improve the clarity of the footnote, which directs the implementation of the trivalent (III) and hexavalent (VI) chromium standards when data for the individual valence states are unavailable. Chromium data are infrequently reported for chromium III and chromium VI individually. Instead, data are typically reported as the total of all valence states of chromium present in the sample. This is primarily due to the difficulty of accurately measuring chromium III concentrations and the instability of chromium when the sample is acidified for analysis of the total recoverable fraction. While chromium III and chromium VI are the valence states most often found in natural waters, chromium is unstable and can convert between forms in water and in the bodies of humans and aquatic life. However, chromium VI is more water soluble and a known carcinogen. Depending on the classified use, the chromium VI standards are the same as or more stringent than the chromium III standards (Table III). Therefore, when data for individual chromium species are unavailable, the use of the chromium VI standards to assess data reported as total chromium (i.e., the total of all valence states of chromium) will ensure protection of human health and aquatic life. In addition, Footnote 6 was modified to clarify that neither the sum of the concentrations of chromium III and chromium VI (when reported individually) nor the total chromium concentration (i.e., the total of all valence states of chromium) should exceed the Water Supply standards of 50 µg/L for chromium III and chromium VI in water bodies with a Water Supply use classification.

D. Duration of Nitrite Aquatic Life Standard

The commission corrected the duration of all nitrite standards with a value of 0.05 or 0.5 mg/L from acute to chronic on all segments. The nitrite standards in this basin pre-date the nitrite standards in Regulation No. 31 (chloride-based equations). There has been confusion in recent years regarding the correct duration for these standards. There is no record available that explains the basis for these standards or the intended duration (acute or chronic). Based upon a comparison with the nitrite standards in Regulation No. 31, nitrite values of 0.05 and 0.5 mg/L are more consistent with the chronic values calculated using the chloride-based equations. Also, the study that the commission relied upon when adopting the nitrite standards in Regulation No. 31 indicates that these values are protective as chronic standards (1986 Nitrogen Cycle Committee of the Basic Standards Review Task Force Proposed Nitrogenous Water Quality Standards for the State of Colorado). In order to resolve the inconsistencies in the duration of the nitrite standards currently adopted in Regulation Nos. 32-38, the commission determined that these nitrite values should be consistently listed as chronic standards. Over time, the commission expects that these nitrite standards may be replaced with the more recent and well-documented chloride equation-based standards in Regulation No. 31.

E. Housekeeping

The following edits were made to improve clarity, correct typographical errors, and improve consistency across the basin regulations (Regulation Nos. 32-38) and with Regulation No. 31:

- All variations of *E. coli* were edited to display a consistent format in the regulation and appendix tables.
- At 33.5(2) 'Table B' was added to the reference to organic standards at 31.11 to align with changes to Regulation No. 31.
- At 33.6(1), text was added to clarify that the tables in Appendix 33-1 only show the most stringent standards, and that additional, less stringent standards may be found in Regulation No. 31.

- The reference to the 'temporary modification and qualifiers' column at 33.6(2)(c)(i) was replaced with 'Other' to align with a previous change to the appendix tables.
- References to "Trec" were replaced with "total recoverable" or "T".
- Information was added to clarify the application of the sculpin equation in the Table Value Standards table.
- Footnote 4 of the Table Value Standards table was modified to clarify that the "T" in the chronic ammonia equations stands for temperature.
- Other minor edits were made to improve clarity and consistency.

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT WATER QUALITY CONTROL COMMISSION

5 CCR 1002-33

REGULATION NO. 33
CLASSIFICATIONS AND NUMERIC STANDARDS
FOR
UPPER COLORADO RIVER BASIN AND
NORTH PLATTE RIVER (PLANNING REGION 12)

APPENDIX 33-1
Stream Classifications and Water Quality Standards Tables

Effective 12/31/2021

Abbreviations and Acronyms

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

mg/m² = milligrams per square meter

mL = milliliter

MWAT = maximum weekly average temperature

OW = outstanding waters

sc = sculpin

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

1. Mainstem of	of the Colorado River, including all t	ributaries and wetlands, within or flo	owing into Rocky Mo	untain Natioi	nal Park.		
	Classifications	Physical and				Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
OW	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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
Temporary Mo	lodification(s):	chlorophyll a (mg/m²)		150	Chromium III(T)	50	
Arsenic(chroni		E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
Expiration Date	te of 12/31/2024				Copper	TVS	TVS
*! !===:==/==	t-) - C 22 F/2) for details	Inorgan	ic (mg/L)		Iron		WS
,	te) = See 33.5(3) for details. onic) = See 33.5(3) for details.		acute	chronic	Iron(T)		1000
Oranium(cmc	offic) – See 33.3(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/TVS(sc)
2. Mainstem of	of the Colorado River, including all t	ributaries and wetlands within or flo	wing into Aranahaa		A A	(l	
7	_			National Re	creation Area, except for t		Segment 5.
	Classifications	Physical and	Biological		creation Area, except for t	Metals (ug/L)	-
Designation	Classifications Agriculture	Physical and	Biological DM	MWAT		Metals (ug/L) acute	chronic
Designation Reviewable	Classifications Agriculture Aq Life Cold 1		Biological DM CS-I	MWAT CS-I	Arsenic	Metals (ug/L)	chronic
Designation Reviewable	Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C	Biological DM CS-I acute	MWAT CS-I chronic	Arsenic Arsenic(T)	Metals (ug/L) acute 340	chronic 0.02
Designation Reviewable	Classifications Agriculture Aq Life Cold 1	Physical and Temperature °C D.O. (mg/L)	Biological DM CS-I acute	MWAT CS-I chronic 6.0	Arsenic Arsenic(T) Cadmium	Metals (ug/L) acute 340 TVS	chronic
Designation Reviewable Qualifiers:	Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C D.O. (mg/L) D.O. (spawning)	Biological DM CS-I acute	MWAT CS-I chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T)	Metals (ug/L) acute 340 TVS 5.0	chronic 0.02 TVS
Designation Reviewable	Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH	Biological DM CS-I acute	MWAT CS-I chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III	Metals (ug/L) acute 340 TVS 5.0	chronic 0.02
Designation Reviewable Qualifiers:	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T)	Metals (ug/L) acute 340 TVS 5.0 50	chronic 0.02 TVS TVS
Designation Reviewable Qualifiers: Other: Temporary Mothers Arsenic(chronic	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply codification(s): ic) = hybrid	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH	Biological DM CS-I acute	MWAT CS-I chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI	Metals (ug/L) acute 340 TVS 5.0 50 TVS	chronic 0.02 TVS TVS TVS
Designation Reviewable Qualifiers: Other: Temporary Mothers Arsenic(chronic	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	Metals (ug/L) acute 340 TVS 5.0 50	chronic 0.02 TVS TVS TVS TVS
Designation Reviewable Qualifiers: Other: Temporary Me Arsenic(chroni Expiration Date	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply codification(s): ic) = hybrid	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron	Metals (ug/L) acute 340 TVS 5.0 50 TVS	chronic 0.02 TVS TVS TVS
Designation Reviewable Qualifiers: Other: Temporary Moders Arsenic (chronic Expiration Date *Uranium (acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute	MWAT CS-I chronic 6.0 7.0 150 126 chronic	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T)	Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS	chronic 0.02 TVS TVS TVS WS 1000
Designation Reviewable Qualifiers: Other: Temporary Moders Arsenic (chronic Expiration Date *Uranium (acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead	Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS TVS	Chronic 0.02 TVS TVS TVS TVS TVS TVS TVS TVS TVS
Designation Reviewable Qualifiers: Other: Temporary Moders Arsenic (chronic Expiration Date *Uranium (acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T)	Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50	Chronic 0.02 TVS TVS TVS TVS TVS TVS TVS TVS WS 1000 TVS
Designation Reviewable Qualifiers: Other: Temporary Moders Arsenic (chronic Expiration Date *Uranium (acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS	Chronic 0.02 TVS
Designation Reviewable Qualifiers: Other: Temporary Moders Arsenic (chronic Expiration Date *Uranium (acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS	Chronic 0.02 TVS TVS TVS TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01
Designation Reviewable Qualifiers: Other: Temporary Moders Arsenic (chronic Expiration Date *Uranium (acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005	MWAT CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS TVS	Chronic 0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01
Designation Reviewable Qualifiers: Other: Temporary Moders Arsenic (chronic Expiration Date *Uranium (acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS 50 TVS 50 TVS TVS 50 TVS	Chronic 0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS
Designation Reviewable Qualifiers: Other: Temporary Moders Arsenic (chronic Expiration Date *Uranium (acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011 0.05	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS TVS	Chronic 0.02 TVS TVS TVS TVS TVS S TVS US 1000 TVS TVS/WS 0.01 150 TVS 100
Designation Reviewable Qualifiers: Other: Temporary Moders Arsenic (chronic Expiration Date *Uranium (acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011 0.05 0.11	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS	Chronic 0.02 TVS TVS TVS TVS TVS TVS S TVS TVS TVS TVS T
Designation Reviewable Qualifiers: Other: Temporary Moders Arsenic (chronic Expiration Date *Uranium (acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011 0.05 0.11 WS	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium Silver	Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS 50 TVS	Chronic 0.02 TVS TVS TVS TVS S TVS TVS TVS TVS TVS TVS T
Designation Reviewable Qualifiers: Other: Temporary Moders Arsenic (chronic Expiration Date *Uranium (acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011 0.05 0.11	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS	Chronic 0.02 TVS TVS TVS S TVS WS 1000 TVS TVS/WS 0.01 150 TVS 1000 TVS 1000 TVS

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

3. Mainstem o	f the Colorado River from the outlet	of Lake Granby to below the conflu	ence with the Roari	ng Fork Rive	er.		
COUCUC03	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:		рН	6.5 - 9.0		Chromium III		TVS
Temporary M	odification(s):	chlorophyll a (mg/m²)		150*	Chromium III(T)	50	
Arsenic(chroni	* *	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
*	re of 12/31/2024				Copper	TVS	TVS
*chlorophyll a	(mg/m²)(chronic) = applies only	Inorgani	c (mg/L)		Iron		WS
above the faci	lities listed at 33.5(4).		acute	chronic	Iron(T)		1000
*Phosphorus(of facilities listed	chronic) = applies only above the	Ammonia	TVS	TVS	Lead	TVS	TVS
	te) = See 33.5(3) for details.	Boron		0.75	Lead(T)	50	
*Uranium(chro	onic) = See 33.5(3) for details.	Chloride		250	Manganese	TVS	TVS/WS
*Temperature		Chlorine	0.019	0.011	Mercury(T)		0.01
See 33.0(4) 10	r temperature standards.	Cyanide	0.005		Molybdenum(T)		150
İ		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*
				0.002	Zinc	TVS	TVS/TVS(sc)
4. All tributarie	es to the Colorado River, including al	I wetlands, from the outlet of Lake	Granby to above the	confluence	with the Roaring Fork Riv	er, which are on Na	
-	specific listings in Segments 2, 8, 9				1		
COUCUC04	Classifications	Physical and				Metals (ug/L)	
	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	
	Recreation E Water Supply	(")	acute	chronic	Arsenic(T)		0.02
Qualifiers:	water Suppry	D.O. (mg/L)		6.0	Cadmium	TVS	TVS
		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
Temporary M	odification(s):	chlorophyll a (mg/m²)		150	Chromium III(T)	50	
Arsenic(chroni	ic) = hybrid	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
Expiration Dat	e of 12/31/2024				Copper	TVS	TVS
*Uranium(acut	te) = See 33.5(3) for details.	Inorgani	c (mg/L)		Iron		WS
,	onic) = See 33.5(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
1		Nitrate	10		Nickel	TVS	TVS
ı		Nitrite		0.05	Nickel(T)		100
.!!							
		Phosphorus		0.11	Selenium	TVS	TVS

Sulfate

Sulfide

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

MWAT = maximum weekly average temperature See 33.6 for further details on applied standards.

ws

0.002

Silver

Zinc

Uranium

TVS

TVS

varies*

TVS(tr)

varies*

TVS/TVS(sc)

5. Mainstem o	f Willow Creek from the outlet of Will	ow Creek Reservoir to the confluen	ce with the Colorac	lo River.			
COUCUC05	Classifications	Physical and B				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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
Temporary M	odification(s):	chlorophyll a (mg/m²)		150*	Chromium III(T)	50	
Arsenic(chroni		E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
,	e of 12/31/2024				Copper	TVS	TVS
·		Inorganic	(mg/L)		Iron		WS
	(mg/m²)(chronic) = applies only lities listed at 33.5(4).		acute	chronic	Iron(T)		1000
*Phosphorus(of facilities listed	chronic) = applies only above the	Ammonia	TVS	TVS	Lead	TVS	TVS
	te) = See 33.5(3) for details.	Boron		0.75	Lead(T)	50	
,	onic) = See 33.5(3) for details.	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/TVS(sc)
	ies to the Colorado River, including a						
	fluence with the Blue River and Mude Classifications	Physical and B		ept for the sp	pecific listings in Segment	S 5, 60, 8 and 10a-6 Metals (ug/L)	C
Designation	Agriculture	1 Hysical and B	DM	MWAT		acute	chronic
Reviewable	Ag Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	CHIOIIIC
T C VICWADIC	Recreation P	Temperature C	acute	chronic	Arsenic(T)	340	0.02
	Water Supply	D.O. (mg/L)		6.0	Cadmium	TVS	TVS
Qualifiers:	11.7	D.O. (spawning)		7.0	Cadmium(T)	5.0	
· ·		pH	6.5 - 9.0		Chromium III	3.0	TVS
Other:		chlorophyll a (mg/m²)	0.5 - 9.0	150*	Chromium III(T)	50	1 7 5
Temporary M	` '	E. coli (per 100 mL)		205	Chromium III(1)	TVS	TVS
Arsenic(chroni		L. John (per 100 IIIL)		200	Copper Copper	TVS	TVS
Expiration Dat	e of 12/31/2024	Ingrassia	(ma/L)		1	1 v 3	WS
	(mg/m²)(chronic) = applies only lities listed at 33.5(4).	Inorganic	,	ohronia	Iron Iron(T)		1000
*Phosphorus(d	chronic) = applies only above the	A	acute	chronic	Lead	TVS	
facilities listed	at 33.5(4). te) = See 33.5(3) for details.	Ammonia	TVS	TVS		50	TVS
,	onic) = See 33.5(3) for details.	Boron		0.75	Lead(T)		T\/\$^^/\$
J'amam(ont	5.110, 000 00.0(0) IOI UELAIIS.	Chloride		250	Manganese	TVS	TVS/WS 0.01
		Chlorine	0.019	0.011	Mercury(T)		
		Cyanide	0.005		Molybdenum(T)	 TVC	150
		Nitrate	10		Nickel	TVS	TVS
		Nitrite		0.05	Nickel(T)		100
		Phosphorus		0.11*	Selenium	TVS	TVS
		0 1/ 1		14/0			
		Sulfate		WS	Silver	TVS	TVS(tr)
		Sulfate Sulfide		WS 0.002	Silver Uranium Zinc	TVS varies* TVS	VS(tr) varies* TVS/TVS(sc)

t = total tr = trout sc = sculpin D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly a

	of un-named tributary to Willow Cree Classifications	Physical and			,	Metals (ug/L)	
Designation	Agriculture	T Hydrodi dild	DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	
	Recreation N		acute	chronic	Arsenic(T)		100
Qualifiers:	II.	D.O. (mg/L)		6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)		7.0	Chromium III	TVS	TVS
		рН	6.5 - 9.0		Chromium III(T)		100
*Phosphorus(of facilities listed	chronic) = applies only above the	chlorophyll a (mg/m²)			Chromium VI	TVS	TVS
	te) = See 33.5(3) for details.	E. coli (per 100 mL)		630	Copper	TVS	TVS
*Uranium(chro	onic) = See 33.5(3) for details.				Iron(T)		1000
		Inorgani	c (mg/L)		Lead	TVS	TVS
			acute	chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Manganese(T)		200
		Boron		0.75	Mercury(T)		0.01
		Chloride			Molybdenum(T)		150
		Chlorine	0.019	0.011	Nickel	TVS	TVS
		Cyanide	0.005		Selenium	TVS	TVS
		Nitrate	100		Silver	TVS	TVS(tr)
		Nitrite		0.05	Uranium	varies*	varies*
		Phosphorus		0.11*	Zinc	TVS	TVS
		Sulfate					
		Sulfide		0.002			

7a. All tributaries to the Colorado River, including all wetlands, from a point immediately above the confluence with the Blue River and Muddy Creek to a point immediately below the confluence with the Roaring Fork River, which are not on National Forest lands, except for specific listings in Segment 7b, 7c, 7d, 7e and in the Blue River, Eagle River, and Roaring Fork River basins.

COUCUC07A	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:		рН	6.5 - 9.0		Chromium III		TVS
Temporary Mo	odification(s):	chlorophyll a (mg/m²)		150	Chromium III(T)	50	
Arsenic(chroni	. ,	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
Expiration Date	e of 12/31/2024				Copper	TVS	TVS
*I Ironium/ocut	e) = See 33.5(3) for details.	Inorgan	ic (mg/L)		Iron		WS
•	nic) = See 33.5(3) for details.		acute	chronic	Iron(T)		1000
*Temperature	, , ,	Ammonia	TVS	TVS	Lead	TVS	TVS
See 33.6(4) for	r temperature standards.	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

7b. All tributaries to Muddy Creek, including all wetlands, from the inlet of Wolford Mountain Reservoir to the confluence with the Colorado River. Mainstems of Rock Creek, Deep Creek, Sheephorn Creek, Sweetwater Creek, Piney River and Blacktail Creek, including all tributaries and wetlands, from their sources to their confluences with the Colorado River, which are not on National Forest lands

COUCUC07B	Classifications	Physical and Bio	ological			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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
Temporary Mo	odification(s):	chlorophyll a (mg/m²)		150*	Chromium III(T)	50	
Arsenic(chroni	· /	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
Expiration Date	e of 12/31/2024				Copper	TVS	TVS
*chlorophyll a	(mg/m²)(chronic) = applies only	Inorganic	[mg/L)		Iron		WS
above the facil	ities listed at 33.5(4).		acute	chronic	Iron(T)		1000
*Phosphorus(c facilities listed	thronic) = applies only above the at 33.5(4).	Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(acut	e) = See 33.5(3) for details.	Boron		0.75	Lead(T)	50	
*Uranium(chro	nic) = See 33.5(3) for details.	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/TVS(sc)

7c. Mainstem of Muddy Creek from the source to a point immediately below the confluence with Eastern Gulch, except those waters on National Forest lands. All tributaries to Muddy Creek, including all wetlands, from the source to the inlet of Wolford Mountain Reservoir, except those waters on National Forest lands. The mainstems of Derby Creek, Cabin Creek, and Red Dirt Creeks (all tributary to the Colorado River), including all tributaries and wetlands, from their sources to their confluences with the Colorado River, except those waters on National Forest lands.

COUCUC07C	Classifications	Physical and E	Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	
	Recreation N		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
		chlorophyll a (mg/m²)			Chromium III(T)	50	
,	e) = See 33.5(3) for details.	E. coli (per 100 mL)		630	Chromium VI	TVS	TVS
*Uranium(chro	onic) = See 33.5(3) for details.				Copper	TVS	TVS
		Inorgani	c (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
		Phosphorus		0.11	Selenium	TVS	TVS
		Sulfate		WS	Silver	TVS	TVS(tr)
		Sulfide		0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)

All metals are dissolved unless otherwise noted.

T = total recoverable

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

7d. Mainstem	of Muddy Creek from the outlet of W	olford Mountain Reservoir to above	e the Highway 40 Br	idae in Krem	nmling (40.060574, -106.3	98739).	
	Classifications	Physical and I		g	1	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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
		chlorophyll a (mg/m²)		150*	Chromium III(T)	50	
	(mg/m²)(chronic) = applies only lities listed at 33.5(4).	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
*Phosphorus(o	chronic) = applies only above the				Copper	TVS	TVS
	te) = See 33.5(3) for details.	Inorgani	c (mg/L)		Iron		WS
,	onic) = See 33.5(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/TVS(sc)
7e. Mainstem	of Muddy Creek from above the High	nway 40 Bridge in Kremmling (40.0	60574, -106.39873	9) to the con	fluence with the Colorado	River.	
COUCUC07E	Classifications	Physical and I	Biological			Metals (ug/L)	
Designation	Agriculture						
Reviewable	, ignountano		DM	MWAT		acute	chronic
	Aq Life Cold 1	Temperature °C	CS-II	MWAT CS-II	Arsenic	acute 340	chronic
	- -	Temperature °C			Arsenic Arsenic(T)		
Qualifiers:	Aq Life Cold 1	Temperature °C D.O. (mg/L)	CS-II	CS-II		340	
	Aq Life Cold 1		CS-II acute	CS-II chronic	Arsenic(T)	340	 7.6
Qualifiers: Other:	Aq Life Cold 1 Recreation E	D.O. (mg/L)	CS-II acute	CS-II chronic 6.0	Arsenic(T) Cadmium	340 TVS	7.6 TVS
Qualifiers: Other: *chlorophyll a above the faci	Aq Life Cold 1 Recreation E (mg/m²)(chronic) = applies only lities listed at 33.5(4).	D.O. (mg/L) D.O. (spawning)	CS-II acute 	chronic 6.0 7.0	Arsenic(T) Cadmium Chromium III	340 TVS TVS	7.6 TVS TVS
Qualifiers: Other: *chlorophyll a above the faci *Phosphorus(o	Aq Life Cold 1 Recreation E (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the	D.O. (mg/L) D.O. (spawning) pH	CS-II acute 6.5 - 9.0	CS-II chronic 6.0 7.0	Arsenic(T) Cadmium Chromium III Chromium III(T)	340 TVS TVS	7.6 TVS TVS 100
Qualifiers: Other: *chlorophyll a above the faci *Phosphorus(ofacilities listed	Aq Life Cold 1 Recreation E (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	CS-II acute 6.5 - 9.0	CS-II chronic 6.0 7.0 150*	Arsenic(T) Cadmium Chromium III Chromium III(T) Chromium VI	340 TVS TVS TVS	7.6 TVS TVS 100 TVS
Qualifiers: Other: *chlorophyll a above the faci *Phosphorus(conditional facilities listed *Uranium(acut	Aq Life Cold 1 Recreation E (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4).	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	CS-II acute 6.5 - 9.0 	CS-II chronic 6.0 7.0 150*	Arsenic(T) Cadmium Chromium III Chromium III(T) Chromium VI Copper	340 TVS TVS TVS TVS	7.6 TVS TVS 100 TVS TVS
Qualifiers: Other: *chlorophyll a above the faci *Phosphorus(conditional facilities listed *Uranium(acut	Aq Life Cold 1 Recreation E (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4). te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	CS-II acute 6.5 - 9.0 	CS-II chronic 6.0 7.0 150*	Arsenic(T) Cadmium Chromium III Chromium III(T) Chromium VI Copper Iron(T)	340 TVS TVS TVS TVS	7.6 TVS TVS 100 TVS TVS
Qualifiers: Other: *chlorophyll a above the faci *Phosphorus(conditional facilities listed *Uranium(acut	Aq Life Cold 1 Recreation E (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4). te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	CS-II acute 6.5 - 9.0 c (mg/L)	CS-II chronic 6.0 7.0 150* 126	Arsenic(T) Cadmium Chromium III Chromium III(T) Chromium VI Copper Iron(T) Lead	340 TVS TVS TVS TVS TVS TVS	7.6 TVS TVS 100 TVS TVS 1000 TVS
Qualifiers: Other: *chlorophyll a above the faci *Phosphorus(continue) facilities listed *Uranium(acut	Aq Life Cold 1 Recreation E (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4). te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	CS-II acute 6.5 - 9.0 c (mg/L) acute	CS-II chronic 6.0 7.0 150* 126	Arsenic(T) Cadmium Chromium III Chromium III(T) Chromium VI Copper Iron(T) Lead Manganese	340 TVS TVS TVS TVS TVS TVS TVS	7.6 TVS TVS 100 TVS TVS 1000 TVS TVS
Qualifiers: Other: *chlorophyll a above the faci *Phosphorus(continue) facilities listed *Uranium(acut	Aq Life Cold 1 Recreation E (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4). te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani	CS-II	CS-II chronic 6.0 7.0 150* 126 chronic TVS	Arsenic(T) Cadmium Chromium III Chromium III(T) Chromium VI Copper Iron(T) Lead Manganese Mercury(T) Molybdenum(T) Nickel	340 TVS TVS TVS TVS TVS TVS TVS TVS	7.6 TVS TVS 100 TVS TVS 1000 TVS TVS 1000 TVS TVS TVS 0.01 150 TVS
Qualifiers: Other: *chlorophyll a above the faci *Phosphorus(continue) facilities listed *Uranium(acut	Aq Life Cold 1 Recreation E (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4). te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron	CS-II	CS-II chronic 6.0 7.0 150* 126 chronic TVS 0.75	Arsenic(T) Cadmium Chromium III Chromium III(T) Chromium VI Copper Iron(T) Lead Manganese Mercury(T) Molybdenum(T)	340 TVS TVS TVS TVS TVS TVS	7.6 TVS TVS 100 TVS TVS 1000 TVS 1000 TVS TVS 0.01
Qualifiers: Other: *chlorophyll a above the faci *Phosphorus(of facilities listed *Uranium(acut	Aq Life Cold 1 Recreation E (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4). te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron Chloride	CS-II	CS-II chronic 6.0 7.0 150* 126 chronic TVS 0.75 250	Arsenic(T) Cadmium Chromium III Chromium III(T) Chromium VI Copper Iron(T) Lead Manganese Mercury(T) Molybdenum(T) Nickel	340 TVS TVS TVS TVS TVS TVS TVS TVS TVS	7.6 TVS TVS 100 TVS TVS 1000 TVS TVS 1000 TVS TVS TVS 0.01 150 TVS
Qualifiers: Other: *chlorophyll a above the faci *Phosphorus(of facilities listed *Uranium(acut	Aq Life Cold 1 Recreation E (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4). te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine	CS-II	CS-II chronic 6.0 7.0 150* 126 chronic TVS 0.75 250 0.011	Arsenic(T) Cadmium Chromium III Chromium III(T) Chromium VI Copper Iron(T) Lead Manganese Mercury(T) Molybdenum(T) Nickel Selenium	340 TVS	7.6 TVS TVS 100 TVS TVS 1000 TVS TVS 0.01 150 TVS TVS
Qualifiers: Other: *chlorophyll a above the faci *Phosphorus(of facilities listed *Uranium(acut	Aq Life Cold 1 Recreation E (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4). te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide	CS-II acute 6.5 - 9.0 c (mg/L) acute TVS 0.019 0.005	CS-II chronic 6.0 7.0 150* 126 Chronic TVS 0.75 250 0.011	Arsenic(T) Cadmium Chromium III Chromium III(T) Chromium VI Copper Iron(T) Lead Manganese Mercury(T) Molybdenum(T) Nickel Selenium Silver	340 TVS	7.6 TVS TVS 100 TVS TVS 1000 TVS TVS 0.01 150 TVS TVS TVS TVS TVS
Qualifiers: Other: *chlorophyll a above the faci *Phosphorus(of facilities listed *Uranium(acut	Aq Life Cold 1 Recreation E (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4). te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide Nitrate	CS-II acute 6.5 - 9.0 c (mg/L) acute TVS 0.019 0.005 100	CS-II chronic 6.0 7.0 150* 126 Chronic TVS 0.75 250 0.011	Arsenic(T) Cadmium Chromium III Chromium III(T) Chromium VI Copper Iron(T) Lead Manganese Mercury(T) Molybdenum(T) Nickel Selenium Silver Uranium	340 TVS	7.6 TVS TVS 100 TVS TVS 1000 TVS TVS 0.01 150 TVS TVS TVS TVS TVS TVS TVS TVS TVS
Qualifiers: Other: *chlorophyll a above the faci *Phosphorus(continue) facilities listed *Uranium(acut	Aq Life Cold 1 Recreation E (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4). te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	CS-II	CS-II chronic 6.0 7.0 150* 126 Chronic TVS 0.75 250 0.011 0.05	Arsenic(T) Cadmium Chromium III Chromium III(T) Chromium VI Copper Iron(T) Lead Manganese Mercury(T) Molybdenum(T) Nickel Selenium Silver Uranium	340 TVS	7.6 TVS TVS 100 TVS TVS 1000 TVS TVS 0.01 150 TVS TVS TVS TVS TVS TVS TVS TVS TVS

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

8 Mainstem o	of the Williams Fork River, including						
COUCUC08	Classifications	Physical and		Idonoo wiiii	1	Metals (ug/L)	5 III COGITICINO.
Designation	Agriculture	,	DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	
	Recreation E	1 Simporataro C	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
		chlorophyll a (mg/m²)		150	Chromium III(T)	50	
Temporary M		E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
Arsenic(chron	, ,	L. con (per 100 mL)		120	Copper	TVS	TVS
Expiration Dat	te of 12/31/2024	In a new and	!- (Iron		WS*
*Iron(chronic) Canyon Rancl	= Point of compliance at Aspen	Inorgan	ic (mg/L)				1000
*Manganese(d	chronic) = Point of compliance at		acute	chronic	Iron(T)	TVS	TVS
Aspen Canyor		Ammonia	TVS	TVS	Lead		
,	te) = See 33.5(3) for details.	Boron		0.75	Lead(T)	50 T) (0	
Oranium(chro	onic) = See 33.5(3) for details.	Chloride		250	Manganese	TVS	TVS/WS*
		Chlorine	0.019	0.011	Mercury(T)		0.01
		Cyanide	0.005		Molybdenum(T)		190
		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/TVS(sc)
9. All tributarie Wilderness Ar	es to the Colorado and Fraser River eas.				Zinc	TVS	TVS/TVS(sc)
			Never Summer, Indi		Zinc yers Peak, Vasquez Peak	TVS	TVS/TVS(sc)
Wilderness Ar	eas.	s, including all wetlands, within the	Never Summer, Indi		Zinc yers Peak, Vasquez Peak	TVS , Eagles Nest and F	TVS/TVS(sc)
Wilderness Ar	classifications	s, including all wetlands, within the	Never Summer, Indi	an Peaks, B	Zinc yers Peak, Vasquez Peak	TVS , Eagles Nest and F Metals (ug/L)	TVS/TVS(sc)
Wilderness Ar COUCUC09 Designation	eas. Classifications Agriculture	s, including all wetlands, within the	Never Summer, Indi Biological DM	an Peaks, B	Zinc yers Peak, Vasquez Peak Arsenic	TVS Eagles Nest and F Metals (ug/L) acute	TVS/TVS(sc) lat Tops chronic
Wilderness Ar COUCUC09 Designation	eas. Classifications Agriculture Aq Life Cold 1	s, including all wetlands, within the	Never Summer, Indi Biological DM CS-I	an Peaks, B MWAT CS-I	Zinc tyers Peak, Vasquez Peak	TVS Eagles Nest and F Metals (ug/L) acute 340	TVS/TVS(sc) lat Tops chronic
Wilderness Ar COUCUC09 Designation	eas. Classifications Agriculture Aq Life Cold 1 Recreation E	s, including all wetlands, within the Physical and Temperature °C D.O. (mg/L)	Never Summer, Indi Biological DM CS-I acute	MWAT CS-I chronic	Zinc Eyers Peak, Vasquez Peak Arsenic Arsenic(T) Cadmium	TVS Eagles Nest and F Metals (ug/L) acute 340	TVS/TVS(sc) lat Tops chronic 0.02
Wilderness Ar COUCUC09 Designation OW Qualifiers:	eas. Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C D.O. (mg/L) D.O. (spawning)	Never Summer, Indi Biological DM CS-I acute	MWAT CS-I chronic 6.0	Zinc Eyers Peak, Vasquez Peak Arsenic Arsenic(T) Cadmium Cadmium(T)	TVS Eagles Nest and F Metals (ug/L) acute 340 TVS 5.0	chronic 0.02 TVS
Wilderness Ar COUCUC09 Designation OW	eas. Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH	Never Summer, Indi Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0	Zinc Eyers Peak, Vasquez Peak Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III	TVS Eagles Nest and F Metals (ug/L) acute 340 TVS 5.0	Chronic 0.02 TVS
Wilderness Ar COUCUC09 Designation OW Qualifiers: Other:	eas. Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	Never Summer, Indi Biological DM CS-I acute	MWAT CS-I chronic 6.0 7.0 150	Zinc Eyers Peak, Vasquez Peak Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T)	TVS , Eagles Nest and F Metals (ug/L) acute 340 TVS 5.0 50	chronic 0.02 TVS TVS
Wilderness Ar COUCUC09 Designation OW Qualifiers: Other: *Uranium(acur	eas. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH	Never Summer, Indi Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0	Zinc Eyers Peak, Vasquez Peak Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI	TVS , Eagles Nest and F Metals (ug/L) acute 340 TVS 5.0 50 TVS	chronic 0.02 TVS TVS TVS
Wilderness Ar COUCUC09 Designation OW Qualifiers: Other: *Uranium(acur	eas. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	Never Summer, Indi Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150	Zinc Eyers Peak, Vasquez Peak Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	TVS , Eagles Nest and F Metals (ug/L) acute 340 TVS 5.0 50	Chronic 0.02 TVS TVS TVS TVS TVS
Wilderness Ar COUCUC09 Designation OW Qualifiers: Other: *Uranium(acur	eas. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	Never Summer, Indi Biological DM CS-I acute 6.5 - 9.0 ic (mg/L)	MWAT CS-I chronic 6.0 7.0 150 126	zinc syers Peak, Vasquez Peak Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	TVS Eagles Nest and F Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS	trvs/trvs(sc) lat Tops chronic 0.02 trvs trvs trvs trvs trvs ws
Wilderness Ar COUCUC09 Designation OW Qualifiers: Other: *Uranium(acur	eas. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	s, including all wetlands, within the Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan	Never Summer, Indi Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute	MWAT CS-I chronic 6.0 7.0 150 126 chronic	Zinc Eyers Peak, Vasquez Peak Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T)	TVS Eagles Nest and F Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS	trvs/trvs(sc) lat Tops chronic 0.02 trvs trvs trvs trvs ws 1000
Wilderness Ar COUCUC09 Designation OW Qualifiers: Other: *Uranium(acur	eas. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	s, including all wetlands, within the Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan	Never Summer, Indi Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS	Zinc Eyers Peak, Vasquez Peak Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead	TVS Reagles Nest and F Metals (ug/L) acute 340 TVS 5.0 TVS TVS TVS TVS TVS TVS	trvs/trvs(sc) lat Tops chronic 0.02 trvs trvs trvs trvs ws 1000 trvs
Wilderness Ar COUCUC09 Designation OW Qualifiers: Other: *Uranium(acur	eas. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	s, including all wetlands, within the Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron	Never Summer, Indi Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75	Zinc Eyers Peak, Vasquez Peak Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T)	TVS , Eagles Nest and F Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50	TVS/TVS(sc) lat Tops chronic 0.02 TVS TVS TVS TVS WS 1000 TVS
Wilderness Ar COUCUC09 Designation OW Qualifiers: Other: *Uranium(acur	eas. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	s, including all wetlands, within the Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride	Never Summer, Indi Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	mwat CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250	Zinc Eyers Peak, Vasquez Peak Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	TVS , Eagles Nest and F Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS	TVS/TVS(sc) lat Tops chronic 0.02 TVS TVS S TVS WS 1000 TVS TVS/WS
Wilderness Ar COUCUC09 Designation OW Qualifiers: Other:	eas. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	s, including all wetlands, within the Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine	Never Summer, Indi Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019	mwat CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250 0.011	Zinc Eyers Peak, Vasquez Peak Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	TVS Eagles Nest and F Metals (ug/L) acute 340 TVS 5.0 TVS TVS TVS TVS TVS TVS TVS TV	TVS/TVS(sc) lat Tops chronic 0.02 TVS TVS WS 1000 TVS TVS/WS 0.01
Wilderness Ar COUCUC09 Designation OW Qualifiers: Other:	eas. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	s, including all wetlands, within the Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide	Never Summer, Indi Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005	mwat CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250 0.011	Zinc Eyers Peak, Vasquez Peak Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	TVS Reagles Nest and F Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS 50 TVS	TVS/TVS(sc) lat Tops chronic 0.02 TVS TVS WS 1000 TVS TVS/WS 0.01 150
Wilderness Ar COUCUC09 Designation OW Qualifiers: Other:	eas. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	s, including all wetlands, within the Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate	Never Summer, Indi Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019	mwat CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250 0.011	Zinc Eyers Peak, Vasquez Peak Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	TVS Reagles Nest and F Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS 50 TVS TVS 50 TVS	TVS/TVS(sc) lat Tops chronic 0.02 TVS TVS S TVS TV
Wilderness Ar COUCUC09 Designation OW Qualifiers: Other:	eas. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	s, including all wetlands, within the Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	Never Summer, Indi Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005	mwat CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250 0.011 0.05	Zinc Zyers Peak, Vasquez Peak Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	TVS , Eagles Nest and F Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS	TVS/TVS(sc) lat Tops chronic 0.02 TVS TVS S TVS WS 1000 TVS TVS/WS 0.01 150 TVS 100
Wilderness Ar COUCUC09 Designation OW Qualifiers: Other:	eas. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	s, including all wetlands, within the Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate	Never Summer, Indi Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	mwat CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250 0.011	Zinc Eyers Peak, Vasquez Peak Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	TVS , Eagles Nest and F Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS 50 TVS TVS TVS TVS TVS	TVS/TVS(sc) lat Tops chronic 0.02 TVS TVS S TVS WS 1000 TVS TVS/WS 0.01 150 TVS 1000 TVS 1000 TVS
Wilderness Ar COUCUC09 Designation OW Qualifiers: Other:	eas. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	s, including all wetlands, within the Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	Never Summer, Indi Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	mwat CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250 0.011 0.05	Zinc Eyers Peak, Vasquez Peak Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium Silver	TVS PERCENTAGE TVS REagles Nest and F Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS 50 TVS	TVS/TVS(sc) lat Tops chronic 0.02 TVS TVS S S S S S S S S S S S S S S S S S S
Wilderness Ar COUCUC09 Designation OW Qualifiers: Other: *Uranium(acur	eas. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	s, including all wetlands, within the Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	Never Summer, Indi Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	mwat CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250 0.011 0.05	Zinc Eyers Peak, Vasquez Peak Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	TVS , Eagles Nest and F Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS 50 TVS TVS TVS TVS TVS	TVS/TVS(sc) lat Tops chronic 0.02 TVS TVS S TVS WS 1000 TVS TVS/WS 0.01 150 TVS 1000 TVS 1000 TVS

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

10a. Mainstem of the Fraser River from the source to a point immediately below the Rendezvous Bridge (39.933728, -105.789785). All tributaries to the Fraser River, including wetlands, from the source to the confluence with the Colorado River, except for those tributaries included in Segments 2 and 9. COUCUC10A Classifications Physical and Biological Metals (ug/L) Designation DM **MWAT** chronic Agriculture Reviewable Aa Life Cold 1 Temperature °C CS-I CS-I 340 Arsenic Recreation E acute chronic 0.02 Arsenic(T) ---Water Supply D.O. (mg/L) 6.0 Cadmium TVS **TVS** Qualifiers: 7.0 D.O. (spawning) Cadmium(T) 5.0 Other: рΗ 6.5 - 9.0 Chromium III TVS chlorophyll a (mg/m²) 150* Chromium III(T) 50 Temporary Modification(s): E. coli (per 100 mL) 126 Chromium VI TVS TVS Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 Copper TVS TVS WS Iron Inorganic (mg/L) *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 33.5(4). Iron(T) 1000 acute chronic *Phosphorus(chronic) = applies only above the Lead TVS TVS Ammonia TVS **TVS** facilities listed at 33.5(4). *Uranium(acute) = See 33.5(3) for details. Lead(T) 50 Boron 0.75 *Uranium(chronic) = See 33.5(3) for details. TVS TVS/WS Manganese Chloride 250 0.019 Mercury(T) 0.01 Chlorine 0.011 Molybdenum(T) 150 Cyanide 0.005 Nitrate Nickel TVS TVS 10 ---100 Nickel(T) Nitrite 0.05 Selenium TVS TVS Phosphorus 0.11* Silver TVS TVS(tr) Sulfate WS Uranium varies3 varies* Sulfide 0.002 TVS TVS/TVS(sc)

10b. Mainstem of the Fraser River from a point immediately below the Rendezvous Bridge (39.933728, -105.789785) to a point immediately below the Hammond No 1 Ditch (39.952113, -105.814481).

COUCUC10B	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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		рН	6.5 - 9.0		Chromium III		TVS
Temporary Mo	odification(s):	chlorophyll a (mg/m²)			Chromium III(T)	50	
Arsenic(chroni	* /	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
Expiration Date	e of 12/31/2024				Copper	TVS	TVS
*I Iranium/acut	re) = See 33.5(3) for details.	Inorgan	ic (mg/L)		Iron		WS
,	onic) = See 33.5(3) for details.		acute	chronic	Iron(T)		1000
Oraniani(onic	7110) COO 00.0(0) 101 dotailo.	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/TVS(sc)

	Classifications	Dhysical and F		.00.01110	1) to the confluence with t		
		Physical and E				Metals (ug/L)	
esignation	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
ualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
ther:		pH	6.5 - 9.0		Chromium III		TVS
emporary N	lodification(s):	chlorophyll a (mg/m²)			Chromium III(T)	50	
rsenic(chron	nic) = hybrid	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
xpiration Da	te of 12/31/2024				Copper	TVS	TVS
I	(4.) O 00 F(0) for datable	Inorgani	c (mg/L)		Iron		WS
,	ite) = See 33.5(3) for details.		acute	chronic	Iron(T)		1000
manium(cm	onic) = See 33.5(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
					Nickel(T)		100
		Nitrite		0.05	Selenium	TVS	TVS
		Phosphorus			Silver	TVS	
		Sulfate		WS			TVS(tr
		Sulfide		0.002	Uranium Zinc	varies*	varies TVS/TVS(s
ops Wilderne	ess Areas.						
OUCUC11	Classifications	Physical and E	Biological			Metals (ug/L)	
OUCUC11 Designation	Classifications Agriculture	Physical and E	Biological DM	MWAT		Metals (ug/L)	chron
esignation		Physical and E		MWAT varies*	Arsenic		chron -
esignation	Agriculture	·	DM			acute	-
esignation	Agriculture Aq Life Cold 1	Temperature °C	DM varies*	varies*	Arsenic Arsenic(T)	acute 340 	0.0
esignation W	Agriculture Aq Life Cold 1 Recreation E	Temperature °C D.O. (mg/L)	DM varies* acute	varies*	Arsenic Arsenic(T) Cadmium	acute 340 TVS	0.0 TV:
esignation W ualifiers:	Agriculture Aq Life Cold 1 Recreation E	Temperature °C D.O. (mg/L) D.O. (spawning)	DM varies* acute	varies* chronic 6.0	Arsenic Arsenic(T) Cadmium Cadmium(T)	acute 340 TVS 5.0	 0.0 TV
esignation	Agriculture Aq Life Cold 1 Recreation E	Temperature °C D.O. (mg/L) D.O. (spawning) pH	DM varies* acute 	chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III	acute 340 TVS 5.0	 0.0 TV:
esignation w ualifiers: ther:	Agriculture Aq Life Cold 1 Recreation E Water Supply (ug/L)(chronic) = applies only to	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L)	DM varies* acute 6.5 - 9.0	varies* chronic 6.0 7.0 8*	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T)	acute 340 TVS 5.0 50	 0.0 TV4 TV4
esignation W Qualifiers: Other: chlorophyll a	Agriculture Aq Life Cold 1 Recreation E Water Supply	Temperature °C D.O. (mg/L) D.O. (spawning) pH	DM varies* acute 6.5 - 9.0	chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI	acute 340 TVS 5.0 50 TVS	 0.0 TV: TV:
esignation W ualifiers: ther: chlorophyll a a deserge and reserge a.	Agriculture Aq Life Cold 1 Recreation E Water Supply (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface chronic) = applies only to lakes and	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL)	DM varies* acute 6.5 - 9.0	varies* chronic 6.0 7.0 8*	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	acute 340 TVS 5.0 50	- 0.0 TV - TV - TV
esignation W Rualifiers: Other: Chlorophyll a akes and resirea. Phosphorus(eservoirs largesteroirs largesteroirs)	Agriculture Aq Life Cold 1 Recreation E Water Supply (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface chronic) = applies only to lakes and ger than 25 acres surface area.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L)	DM varies* acute 6.5 - 9.0 c (mg/L)	varies* chronic 6.0 7.0 8* 126	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	acute 340 TVS 5.0 50 TVS TVS	
ualifiers: ther: thlorophyll a kes and rese ea. Phosphorus(sservoirs larg Jranium(acu	Agriculture Aq Life Cold 1 Recreation E Water Supply (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface chronic) = applies only to lakes and	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL)	DM varies* acute 6.5 - 9.0 c (mg/L) acute	varies* chronic 6.0 7.0 8* 126 chronic	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T)	acute 340 TVS 5.0 50 TVS TVS	 0.0 TV4 TV4 TV4 W
ualifiers: ther: thlorophyll a kes and rese ea. Phosphorus(servoirs larg Jranium(acu Jranium(chr	Agriculture Aq Life Cold 1 Recreation E Water Supply (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface chronic) = applies only to lakes and ger than 25 acres surface area. tte) = See 33.5(3) for details. ere	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorganic	DM varies* acute 6.5 - 9.0 c (mg/L) acute TVS	varies* chronic 6.0 7.0 8* 126 chronic TVS	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead	acute 340 TVS 5.0 50 TVS TVS TVS TVS	- 0.0 TV - TV - TV W 100
esignation W ualifiers: ther: thlorophyll a kes and resi ea. Phosphorus(servoirs larg Jranium(acu Jranium(chri emperature M and MWA	Agriculture Aq Life Cold 1 Recreation E Water Supply (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface chronic) = applies only to lakes and ger than 25 acres surface area. tte) = See 33.5(3) for details. onic) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgania Ammonia Boron	DM varies* acute 6.5 - 9.0 c (mg/L) acute TVS	chronic 6.0 7.0 8* 126 chronic TVS 0.75	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T)	acute 340 TVS 5.0 50 TVS TVS TVS 50	
ualifiers: ther: thlorophyll a kes and resea. Phosphorus(aservoirs larguranium(chraften) Temperature M and MW Aim Lake M=CL and M	Agriculture Aq Life Cold 1 Recreation E Water Supply (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface chronic) = applies only to lakes and ger than 25 acres surface area. tte) = See 33.5(3) for details. ere	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorganic Ammonia Boron Chloride	DM varies* acute 6.5 - 9.0 c (mg/L) acute TVS	chronic 6.0 7.0 8* 126 chronic TVS 0.75 250	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS 50 TVS	- 0.0 TV -
esignation W ualifiers: ther: chlorophyll a ikes and resirea. Phosphorus(pservoirs larg Jranium(acu Jranium(chr remperature M and MW A im Lake M=CL and M Il others	Agriculture Aq Life Cold 1 Recreation E Water Supply (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface chronic) = applies only to lakes and ger than 25 acres surface area. tte) = See 33.5(3) for details. onic) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine	DM varies* acute 6.5 - 9.0 c (mg/L) acute TVS 0.019	chronic 6.0 7.0 8* 126 chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS	- 0.0 TV -
tesignation W Aualifiers: ther: chlorophyll a akes and resirea. Phosphorus(pservoirs larg Uranium(chritemperature) M and MW A tim Lake M=CL and M Il others	Agriculture Aq Life Cold 1 Recreation E Water Supply (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface chronic) = applies only to lakes and ger than 25 acres surface area. etc) = See 33.5(3) for details. etc) = See 33.5(3) for details. etc. etc. AWAT=16.6 from 4/1-12/31	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide	DM varies* acute 6.5 - 9.0 c (mg/L) acute TVS	chronic 6.0 7.0 8* 126 chronic TVS 0.75 250	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS	
esignation W tualifiers: ther: chlorophyll a akes and resi rea. Phosphorus(servoirs larg Jranium(acu Jranium(chr remperature M and MW A im Lake M=CL and N Il others	Agriculture Aq Life Cold 1 Recreation E Water Supply (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface chronic) = applies only to lakes and ger than 25 acres surface area. etc) = See 33.5(3) for details. etc) = See 33.5(3) for details. etc. etc. AWAT=16.6 from 4/1-12/31	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate	DM varies* acute 6.5 - 9.0 c (mg/L) acute TVS 0.019	varies* chronic 6.0 7.0 8* 126 chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS TVS TVS	- 0.0 TV - TV TV W 100 TV - TVSW 0.0
tesignation W Aualifiers: ther: chlorophyll a akes and resirea. Phosphorus(pservoirs larg Uranium(chritemperature) M and MW A tim Lake M=CL and M Il others	Agriculture Aq Life Cold 1 Recreation E Water Supply (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface chronic) = applies only to lakes and ger than 25 acres surface area. etc) = See 33.5(3) for details. etc) = See 33.5(3) for details. etc. etc. AWAT=16.6 from 4/1-12/31	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide	DM varies* acute 6.5 - 9.0 c (mg/L) acute TVS 0.019 0.005	chronic 6.0 7.0 8* 126 chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS 50 TVS TVS TVS TVS	
esignation W ualifiers: ther: chlorophyll a ikes and resirea. Phosphorus(pservoirs larg Jranium(acu Jranium(chr remperature M and MW A im Lake M=CL and M Il others	Agriculture Aq Life Cold 1 Recreation E Water Supply (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface chronic) = applies only to lakes and ger than 25 acres surface area. etc) = See 33.5(3) for details. etc) = See 33.5(3) for details. etc. etc. AWAT=16.6 from 4/1-12/31	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate	DM varies* acute 6.5 - 9.0 c (mg/L) acute TVS 0.019 0.005 10	varies* chronic 6.0 7.0 8* 126 chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS TVS TVS	Chroni 0.00 TV3 TV3 TV3 100 TV5 TVS/W1 0.0 156 TV3 TVS/V1 TVS(tr

All metals are dissolved unless otherwise noted.

T = total recoverable

Sulfide

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

MWAT = maximum weekly average temperature See 33.6 for further details on applied standards.

Uranium

Zinc

0.002

varies*

TVS

varies*

TVS

12 Lakes and	reservoirs within Arapahoe National	Recreation Area including Grand	LLake Shadow Mo	untain I ake ai	nd Lake Granhy		
COUCUC12	Classifications	Physical and		antam Earto a	1	Metals (ug/L)	
Designation	Agriculture	,	DM	MWAT		acute	chronic
Reviewable	Ag Life Cold 1	Temperature °C	varies*	varies* B	Arsenic	340	
	Recreation E	Tomporataro o	acute	chronic	Arsenic(T)		0.02
	Water Supply	clarity		narrative*	Cadmium	TVS	TVS
	DUWS*	D.O. (mg/L)		6.0	Cadmium(T)	5.0	
Qualifiers:		D.O. (spawning)		7.0	Chromium III	5.0 	TVS
Goal Qualifier	r Grand Lake Clarity	pH	6.5 - 9.0		Chromium III(T)	50	
Other:		chlorophyll a (ug/L)		8*	Chromium VI	TVS	TVS
Othor.		E. coli (per 100 mL)		126	Copper	TVS	TVS
	r Grand Lake: 7/1-9/11, Clarity = 3.8	,,		120			
meter average depth.	and 2.5 meter minimum Secchi disk	Inorgan	ic (mg/L)		Iron		WS
	(ug/L)(chronic) = applies only above		acute	chronic	Iron(T)		1000
	sted at 33.5(4), applies only to lakes larger than 25 acres surface area.	Ammonia	TVS	TVS	Lead	TVS	TVS
	: DUWS Applies only to Grand Lake	Boron		0.75	Lead(T)	50	
	chronic) = applies only above the at 33.5(4), applies only to lakes and	Chloride		250	Manganese	TVS	TVS/WS
	er than 25 acres surface area.	Chlorine	0.019	0.011	Mercury(T)		0.01
*Uranium(acut	te) = See 33.5(3) for details.	Cyanide	0.005		Molybdenum(T)		150
•	onic) = See 33.5(3) for details.	Nitrate	10		Nickel	TVS	TVS
	c) = For Grand Lake, the highest attainable, consistent with the	Nitrite		0.05	Nickel(T)		100
exercise of est	tablished water rights, the protection	Phosphorus		0.025*	Selenium	TVS	TVS
		0.15.1		WS	Silver	TVS	TVS(tr)
	and protection of water quality Three Lakes system.	Sulfate		****			
throughout the *Temperature	Three Lakes system.	Sulfide		0.002	Uranium	varies*	varies*
throughout the *Temperature See 33.6(4) fo	Three Lakes system. = r temperature standards.	Sulfide		0.002	Zinc	TVS	TVS
throughout the *Temperature See 33.6(4) for 13. All lakes ar	Three Lakes system. = r temperature standards. nd reservoirs tributary to the Colorado	Sulfide River from the boundary of Rocl	 ky Mountain Nation	0.002 al Park and Ai	Zinc rapahoe National Recreation	TVS on Area to a point im	TVS
throughout the *Temperature See 33.6(4) fo 13. All lakes ar the confluence	Three Lakes system. = r temperature standards.	Sulfide River from the boundary of Rocl	 ky Mountain Nation rado Segments 11 :	0.002 al Park and Ai	Zinc rapahoe National Recreation e Blue River and Eagle River	TVS on Area to a point im	TVS
throughout the *Temperature See 33.6(4) fo 13. All lakes ar the confluence	Three Lakes system. = r temperature standards. nd reservoirs tributary to the Colorado with the Roaring Fork River, except Classifications	Sulfide River from the boundary of Rock for specific listings in Upper Color	 ky Mountain Nation rado Segments 11 :	0.002 al Park and Ai	Zinc rapahoe National Recreation e Blue River and Eagle River	TVS on Area to a point im er subbasins.	TVS
throughout the *Temperature See 33.6(4) for 13. All lakes at the confluence COUCUC13 Designation	Three Lakes system. = r temperature standards. nd reservoirs tributary to the Colorado with the Roaring Fork River, except	Sulfide Description Rock of Rock of Specific listings in Upper Color of Physical and	ky Mountain Nation rado Segments 11 : Biological DM	0.002 al Park and Ar and 12 and the	Zinc rapahoe National Recreation e Blue River and Eagle Riv	TVS on Area to a point im er subbasins. Metals (ug/L) acute	TVS mediately above
throughout the Temperature See 33.6(4) for 13. All lakes at the confluence COUCUC13 Designation	Three Lakes system. = r temperature standards. Ind reservoirs tributary to the Colorado with the Roaring Fork River, except Classifications Agriculture	Sulfide River from the boundary of Rock for specific listings in Upper Color	ky Mountain Nation rado Segments 11 : Biological	0.002 al Park and Al and 12 and the MWAT varies* B	Zinc rapahoe National Recreatic e Blue River and Eagle Riv Arsenic	TVS on Area to a point im er subbasins. Metals (ug/L)	TVS mediately above chronic
throughout the *Temperature See 33.6(4) for 13. All lakes at the confluence COUCUC13 Designation	Three Lakes system. = r temperature standards. Ind reservoirs tributary to the Colorado with the Roaring Fork River, except Classifications Agriculture Aq Life Cold 1	Sulfide River from the boundary of Roct for specific listings in Upper Color Physical and Temperature °C	ky Mountain Nation rado Segments 11 : Biological DM varies*	0.002 al Park and Al	Zinc rapahoe National Recreatic e Blue River and Eagle Riv Arsenic Arsenic(T)	TVS on Area to a point im er subbasins. Metals (ug/L) acute 340	TVS mediately above chronic 0.02
throughout the Temperature See 33.6(4) for 13. All lakes at the confluence COUCUC13 Designation	Three Lakes system. r temperature standards. Index reservoirs tributary to the Colorado with the Roaring Fork River, except Classifications Agriculture Aq Life Cold 1 Recreation E	Sulfide De River from the boundary of Roct for specific listings in Upper Color Physical and Temperature °C D.O. (mg/L)	ky Mountain Nation rado Segments 11 a Biological DM varies* acute	0.002 al Park and Al and 12 and the MWAT varies* B chronic 6.0	Zinc rapahoe National Recreatic e Blue River and Eagle Riv Arsenic Arsenic(T) Cadmium	TVS on Area to a point im er subbasins. Metals (ug/L) acute 340 TVS	TVS mediately above chronic 0.02 TVS
throughout the 'Temperature See 33.6(4) for 13. All lakes at the confluence COUCUC13 Designation Reviewable	r Three Lakes system. r temperature standards. Index reservoirs tributary to the Colorado with the Roaring Fork River, except Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Sulfide De River from the boundary of Roci for specific listings in Upper Color Physical and Temperature °C D.O. (mg/L) D.O. (spawning)	ky Mountain Nation rado Segments 11 a Biological DM varies* acute	0.002 al Park and Al and 12 and the MWAT varies* B chronic 6.0 7.0	Zinc rapahoe National Recreatic e Blue River and Eagle Riv Arsenic Arsenic(T) Cadmium Cadmium(T)	TVS on Area to a point im er subbasins. Metals (ug/L) acute 340 TVS 5.0	TVS mediately above chronic 0.02 TVS
throughout the 'Temperature See 33.6(4) fo 13. All lakes at the confluence COUCUC13 Designation Reviewable Qualifiers:	r Three Lakes system. r temperature standards. Index reservoirs tributary to the Colorado with the Roaring Fork River, except Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Sulfide De River from the boundary of Roci for specific listings in Upper Color Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH	ky Mountain Nation rado Segments 11 : Biological DM varies* acute 6.5 - 9.0	0.002 al Park and Al	Zinc rapahoe National Recreatic e Blue River and Eagle Riv Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III	TVS on Area to a point im er subbasins. Metals (ug/L) acute 340 TVS 5.0	TVS mediately above chronic 0.02 TVS TVS
throughout the Temperature See 33.6(4) for 13. All lakes at the confluence COUCUC13 Designation Reviewable	r Three Lakes system. r temperature standards. Index reservoirs tributary to the Colorado with the Roaring Fork River, except Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Sulfide De River from the boundary of Rock for specific listings in Upper Color Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L)	ky Mountain Nation rado Segments 11 a Biological DM varies* acute 6.5 - 9.0	0.002 al Park and Al and 12 and the MWAT varies* B chronic 6.0 7.0 8*	Zinc rapahoe National Recreatice Blue River and Eagle Riv Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T)	TVS on Area to a point imer subbasins. Metals (ug/L) acute 340 TVS 5.0 50	chronic 0.02 TVS TVS
throughout the Temperature See 33.6(4) for 13. All lakes at the confluence COUCUC13 Designation Reviewable Qualifiers: Other:	r Three Lakes system. r temperature standards. Ind reservoirs tributary to the Colorado with the Roaring Fork River, except: Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* (ug/L)(chronic) = applies only above	Sulfide De River from the boundary of Roci for specific listings in Upper Color Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH	ky Mountain Nation rado Segments 11 : Biological DM varies* acute 6.5 - 9.0	0.002 al Park and Al	Zinc rapahoe National Recreatice Blue River and Eagle Riv Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI	TVS on Area to a point imer subbasins. Metals (ug/L) acute 340 TVS 5.0 50 TVS	chronic 0.02 TVS TVS TVS
throughout the Temperature See 33.6(4) for 13. All lakes at the confluence COUCUC13 Designation Reviewable Qualifiers: Other:	Three Lakes system. Tremperature standards. Independent of the Colorado with the Roaring Fork River, except Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS*	Sulfide De River from the boundary of Roci for specific listings in Upper Color Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL)	ky Mountain Nation rado Segments 11 a Biological DM varies* acute 6.5 - 9.0	0.002 al Park and Al and 12 and the MWAT varies* B chronic 6.0 7.0 8*	Arsenic Cadmium Cadmium(T) Chromium III(T) Chromium VI Copper	TVS on Area to a point imer subbasins. Metals (ug/L) acute 340 TVS 5.0 50	chronic 0.02 TVS TVS TVS TVS
hroughout the Temperature See 33.6(4) for 13. All lakes at the confluence COUCUC13 Designation Reviewable Qualifiers: Other: Techlorophyll a interpretation of the facilities listed and reservoirs of Classification	r Three Lakes system. r temperature standards. Ind reservoirs tributary to the Colorado with the Roaring Fork River, except Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* (ug/L)(chronic) = applies only above ted at 33.5(4), applies only to lakes	Sulfide De River from the boundary of Roci for specific listings in Upper Color Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL)	ky Mountain Nation rado Segments 11 a Biological DM varies* acute 6.5 - 9.0 ic (mg/L)	0.002 al Park and Al	Zinc rapahoe National Recreatic e Blue River and Eagle Riv Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron	TVS on Area to a point imer subbasins. Metals (ug/L) acute 340 TVS 5.0 TVS TVS TVS TVS TVS	chronic 0.02 TVS TVS TVS TVS WS
throughout the Temperature See 33.6(4) for 13. All lakes at the confluence COUCUC13 Designation Reviewable Qualifiers: Other: 'chlorophyll a interfacilities listed facilities listed faciliti	r Three Lakes system. r temperature standards. Ind reservoirs tributary to the Colorado with the Roaring Fork River, except Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes larger than 25 acres surface area.	Sulfide De River from the boundary of Roctor specific listings in Upper Color of Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL)	ky Mountain Nation rado Segments 11 : Biological DM varies* acute 6.5 - 9.0 ic (mg/L) acute	al Park and Al and 12 and the MWAT varies* B chronic 6.0 7.0 8* 126 chronic	Zinc rapahoe National Recreatic e Blue River and Eagle Riv Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T)	TVS on Area to a point imer subbasins. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS	chronic 0.02 TVS TVS TVS TVS WS 1000
hroughout the Temperature See 33.6(4) for 13. All lakes as the confluence COUCUC13 Designation Reviewable Qualifiers: Other: Inchlorophyll a the facilities listed a reservoirs (Classification Reservoirs (Class	r Three Lakes system. r temperature standards. Ind reservoirs tributary to the Colorado with the Roaring Fork River, except Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes larger than 25 acres surface area. * *DUWS Applies only to Ute Creek chronic) = applies only above the at 33.5(4), applies only to lakes and	Sulfide De River from the boundary of Rock for specific listings in Upper Color Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgan Ammonia	ky Mountain Nation rado Segments 11 a Biological DM varies* acute 6.5 - 9.0 ic (mg/L)	0.002 al Park and Al and 12 and the MWAT varies* B chronic 6.0 7.0 8* 126 chronic TVS	Zinc rapahoe National Recreatice Blue River and Eagle Rive Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead	TVS on Area to a point imer subbasins. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS TVS TVS TVS	chronic 0.02 TVS TVS TVS VS WS
hroughout the Temperature See 33.6(4) for 13. All lakes at the confluence COUCUC13 Designation Reviewable Qualifiers: Other: Techlorophyll a in the facilities listed are servoirs large deservoirs large.	r Three Lakes system. r temperature standards. Ind reservoirs tributary to the Colorado with the Roaring Fork River, except Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes larger than 25 acres surface area. "DUWS Applies only to Ute Creek chronic) = applies only above the at 33.5(4), applies only to lakes and er than 25 acres surface area.	Sulfide De River from the boundary of Rock of specific listings in Upper Color of Specific listings i	ky Mountain Nation rado Segments 11 : Biological DM varies* acute 6.5 - 9.0 ic (mg/L) acute	0.002 al Park and Al and 12 and the MWAT varies* B chronic 6.0 7.0 8* 126 chronic TVS 0.75	Zinc rapahoe National Recreatice Blue River and Eagle Riv Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T)	TVS on Area to a point imer subbasins. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS TVS 50	TVS mediately above chronic 0.02 TVS TVS TVS S TVS WS 1000 TVS
hroughout the Temperature See 33.6(4) for a lakes and the confluence COUCUC13 Designation Reviewable Color ther: Inchlorophyll a the facilities listed and reservoirs Classification Reservoirs Classification Reservoirs larg Uranium(acuttur	r Three Lakes system. r temperature standards. Ind reservoirs tributary to the Colorado with the Roaring Fork River, except Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes larger than 25 acres surface area. * *DUWS Applies only to Ute Creek chronic) = applies only above the at 33.5(4), applies only to lakes and er than 25 acres surface area. te) = See 33.5(3) for details.	Sulfide De River from the boundary of Rock for specific listings in Upper Color Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgan Ammonia	ky Mountain Nation rado Segments 11 : Biological DM varies* acute 6.5 - 9.0 ic (mg/L) acute TVS	0.002 al Park and Al and 12 and the MWAT varies* B chronic 6.0 7.0 8* 126 chronic TVS	Zinc rapahoe National Recreatice Blue River and Eagle Riv Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	TVS on Area to a point imer subbasins. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS TVS TVS TVS	TVS mediately above chronic 0.02 TVS TVS S TVS WS 1000 TVS TVS/WS
hroughout the Temperature See 33.6(4) for the confluence COUCUC13 Designation Reviewable Cualifiers: Chlorophyll a he facilities liss and reservoirs Classification Reservoirs Classification Reservoirs Classification Reservoirs Large Phosphorus (classification Reservoirs large Uranium (acut Uranium (acut Uranium (acut Uranium (acut Temperature 13.6(4) for 3.6(4) for 3.6(r Three Lakes system. r temperature standards. Ind reservoirs tributary to the Colorado with the Roaring Fork River, except Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes larger than 25 acres surface area. "DUWS Applies only to Ute Creek chronic) = applies only above the at 33.5(4), applies only to lakes and er than 25 acres surface area. (ue) = See 33.5(3) for details. (unic) = See 33.5(3) for details.	Sulfide De River from the boundary of Rock of specific listings in Upper Color of Specific listings i	ky Mountain Nation rado Segments 11 a Biological DM varies* acute 6.5 - 9.0 ic (mg/L) acute TVS	0.002 al Park and Al and 12 and the MWAT varies* B chronic 6.0 7.0 8* 126 chronic TVS 0.75	Zinc rapahoe National Recreatic e Blue River and Eagle Riv Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	TVS on Area to a point imer subbasins. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS TVS 50	TVS mediately above chronic 0.02 TVS TVS WS 1000 TVS TVS/WS 0.01
hroughout the Temperature See 33.6(4) for the confluence COUCUC13 Designation Reviewable Cualifiers: Chlorophyll a he facilities liss and reservoirs Classification Reservoirs Classification Reservoirs Classification Reservoirs Large Phosphorus (classification Reservoirs large Uranium (acut Uranium (acut Uranium (acut Uranium (acut Temperature 13.6(4) for 3.6(4) for 3.6(r Three Lakes system. r temperature standards. Ind reservoirs tributary to the Colorado with the Roaring Fork River, except Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes larger than 25 acres surface area. * *DUWS Applies only to Ute Creek chronic) = applies only above the at 33.5(4), applies only to lakes and er than 25 acres surface area. (te) = See 33.5(3) for details.	Sulfide De River from the boundary of Roci for specific listings in Upper Color Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride	ky Mountain Nation rado Segments 11 a Biological DM varies* acute 6.5 - 9.0 ic (mg/L) acute TVS	0.002 al Park and Al	Zinc rapahoe National Recreatice Blue River and Eagle Riv Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	TVS on Area to a point imer subbasins. Metals (ug/L) acute 340 TVS 5.0 TVS TVS TVS TVS TVS TVS TVS TV	TVS mediately above chronic 0.02 TVS TVS S TVS WS 1000 TVS TVS/WS 0.01 150
hroughout the Temperature See 33.6(4) for the confluence COUCUC13 Designation Reviewable Cualifiers: Chlorophyll a he facilities liss and reservoirs Classification Reservoirs Classification Reservoirs Classification Reservoirs Large Phosphorus (classification Reservoirs large Uranium (acut Uranium (acut Uranium (acut Uranium (acut Temperature 13.6(4) for 3.6(4) for 3.6(r Three Lakes system. r temperature standards. Ind reservoirs tributary to the Colorado with the Roaring Fork River, except Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes larger than 25 acres surface area. "DUWS Applies only to Ute Creek chronic) = applies only above the at 33.5(4), applies only to lakes and er than 25 acres surface area. (ue) = See 33.5(3) for details. (unic) = See 33.5(3) for details.	Sulfide De River from the boundary of Roci for specific listings in Upper Color Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine	ky Mountain Nation rado Segments 11 a Biological DM varies* acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019	0.002 al Park and Al and 12 and the waries* B chronic 6.0 7.0 9 8* 126 chronic TVS 0.75 250 0.011	Zinc rapahoe National Recreatic e Blue River and Eagle Riv Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	TVS on Area to a point imer subbasins. Metals (ug/L) acute 340 TVS 5.0 TVS TVS TVS TVS TVS TVS TVS TV	TVS mediately above chronic 0.02 TVS TVS WS 1000 TVS TVS/WS 0.01
throughout the Temperature See 33.6(4) for the confluence COUCUC13 Designation Reviewable Qualifiers: Other: Chlorophyll a che facilities listed reservoirs Classification Reservoirs accilities listed facilities listed reservoirs large through the country of th	r Three Lakes system. r temperature standards. Ind reservoirs tributary to the Colorado with the Roaring Fork River, except Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes larger than 25 acres surface area. "DUWS Applies only to Ute Creek chronic) = applies only above the at 33.5(4), applies only to lakes and er than 25 acres surface area. (ue) = See 33.5(3) for details. (unic) = See 33.5(3) for details.	Sulfide De River from the boundary of Root for specific listings in Upper Color Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide	ky Mountain Nation rado Segments 11 a Biological DM varies* acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005	0.002 al Park and Al and 12 and the MWAT varies* B chronic 6.0 7.0 126 chronic TVS 0.75 250 0.011	Zinc rapahoe National Recreatic e Blue River and Eagle Riv Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	TVS on Area to a point imer subbasins. Metals (ug/L) acute 340 TVS 5.0 TVS TVS TVS TVS TVS TVS TVS TV	TVS mediately above chronic 0.02 TVS TVS S TVS WS 1000 TVS TVS/WS 0.01 150
throughout the Temperature See 33.6(4) for the confluence COUCUC13 Designation Reviewable Qualifiers: Other: Chlorophyll a che facilities listed reservoirs Classification Reservoirs accilities listed facilities listed reservoirs large through the country of th	r Three Lakes system. r temperature standards. Ind reservoirs tributary to the Colorado with the Roaring Fork River, except Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes larger than 25 acres surface area. "DUWS Applies only to Ute Creek chronic) = applies only above the at 33.5(4), applies only to lakes and er than 25 acres surface area. (ue) = See 33.5(3) for details. (unic) = See 33.5(3) for details.	Sulfide Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate	ky Mountain Nation rado Segments 11 : Biological DM varies* acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	0.002 al Park and Al and 12 and the MWAT varies* B chronic 6.0 7.0 8* 126 chronic TVS 0.75 250 0.011	Zinc rapahoe National Recreatic e Blue River and Eagle Riv Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	TVS on Area to a point imer subbasins. Metals (ug/L) acute 340 TVS 5.0 TVS TVS TVS TVS TVS TVS TVS TV	TVS mediately above chronic 0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS
throughout the 'Temperature See 33.6(4) for the confluence COUCUC13 Designation Reviewable Qualifiers: Other: 'chlorophyll a in the facilities listed fresification Res 'Phosphorus(of facilities listed freservoirs large" turanium(acut "Uranium(acut" Temperature	r Three Lakes system. r temperature standards. Ind reservoirs tributary to the Colorado with the Roaring Fork River, except Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes larger than 25 acres surface area. "DUWS Applies only to Ute Creek chronic) = applies only above the at 33.5(4), applies only to lakes and er than 25 acres surface area. (ue) = See 33.5(3) for details. (unic) = See 33.5(3) for details.	Sulfide De River from the boundary of Root for specific listings in Upper Color Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	ky Mountain Nation rado Segments 11 : Biological DM Varies* acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	0.002 al Park and Al and 12 and the MWAT varies* B chronic 6.0 7.0 8* 126 chronic TVS 0.75 250 0.011 0.05	Zinc rapahoe National Recreatice Blue River and Eagle River Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	TVS on Area to a point imer subbasins. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS TVS TVS TVS TV	TVS mediately above chronic 0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 100
throughout the 'Temperature See 33.6(4) for the confluence COUCUC13 Designation Reviewable Qualifiers: Other: *chlorophyll a the facilities listed are service is a confluence COUCUC13 Could be serviced by the facilities of the facilities listed from the facilities of the facilities listed from the facilities of the facilities listed from the facilities of the facil	r Three Lakes system. r temperature standards. Ind reservoirs tributary to the Colorado with the Roaring Fork River, except Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes larger than 25 acres surface area. "DUWS Applies only to Ute Creek chronic) = applies only above the at 33.5(4), applies only to lakes and er than 25 acres surface area. (ue) = See 33.5(3) for details. (unic) = See 33.5(3) for details.	Sulfide De River from the boundary of Root for specific listings in Upper Color Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	ky Mountain Nation rado Segments 11 a Biological DM varies* acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	0.002 al Park and Al and 12 and the MWAT varies* B chronic 6.0 7.0 126 chronic TVS 0.75 250 0.011 0.05 0.025*	Zinc rapahoe National Recreatice Blue River and Eagle River an	TVS on Area to a point imer subbasins. Metals (ug/L) acute 340 TVS 5.0 TVS TVS TVS TVS TVS TVS TVS TV	TVS mediately above chronic 0.02 TVS TVS S TVS WS 1000 TVS TVS/WS 0.01 150 TVS 1000 TVS

t = total tr = trout sc = sculpin D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly ave

1. Mainstem o	of the Blue River from the source to a	ibove the confluence with French (Juicii.				
COUCBL01	Classifications	Physical and				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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
Temporary M	lodification(s):	chlorophyll a (mg/m²)		150	Chromium III(T)	50	
Arsenic(chron	. ,	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
,	te of 12/31/2024				Copper	TVS	TVS
***		Inorgan	ic (mg/L)		Iron		WS
	te) = See 33.5(3) for details.		acute	chronic	Iron(T)		1000
Oranium(Chire	onic) = See 33.5(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/TVS(sc)
O- M-:							
	of the Blue River from above the cor	nfluence with French Gulch to a po	oint one half mile bel	ow Coyne V	alley Road (39.523189, -10	06.050805).	
COUCBL02A	Classifications	nfluence with French Gulch to a po Physical and	Biological		1	Metals (ug/L)	
COUCBL02A Designation	Classifications Agriculture	1	Biological DM	MWAT	1	•	chronic
COUCBL02A	Classifications Agriculture Aq Life Cold 1	1	Biological DM CS-I	MWAT CS-I	Arsenic	Metals (ug/L)	
COUCBL02A Designation	Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C	Biological DM	MWAT CS-I chronic		Metals (ug/L)	
COUCBL02A Designation UP	Classifications Agriculture Aq Life Cold 1	Physical and Temperature °C D.O. (mg/L)	Biological DM CS-I	MWAT CS-I chronic 6.0	Arsenic	Metals (ug/L) acute 340 4	
COUCBL02A Designation UP Qualifiers:	Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C D.O. (mg/L) D.O. (spawning)	Biological DM CS-I acute	MWAT CS-I chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T)	Metals (ug/L) acute 340	0.02 4
COUCBL02A Designation UP	Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH	DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium	Metals (ug/L) acute 340 4 5.0	0.02
COUCBL02A Designation UP Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	Biological DM CS-I acute	MWAT CS-I chronic 6.0 7.0 150*	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T)	Metals (ug/L) acute 340 4 5.0 50	 0.02 4 TVS
COUCBL02A Designation UP Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH	DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI	Metals (ug/L) acute 340 4 5.0 50 TVS	 0.02 4 TVS
COUCBL02A Designation UP Qualifiers: Other: Temporary M Arsenic(chron	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150*	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	Metals (ug/L) acute 340 4 5.0 50 TVS TVS	0.02 4 TVS TVS TVS
COUCBL02A Designation UP Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Iodification(s): Inic) = hybrid Ite of 12/31/2024 Iodification(s) = applies only	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150* 126	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron	Metals (ug/L) acute 340 4 5.0 50 TVS	0.02 4 TVS TVS TVS WS
COUCBL02A Designation UP Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a above the faci	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Indification(s): Sic) = hybrid te of 12/31/2024 (mg/m²)(chronic) = applies only ilities listed at 33.5(4).	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute	MWAT CS-I chronic 6.0 7.0 150* 126 chronic	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T)	Metals (ug/L) acute 340 4 5.0 50 TVS TVS	0.02 4 TVS TVS TVS WS 1000
COUCBL02A Designation UP Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a above the faci *Phosphorus(c) facilities listed	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Iddification(s): iic) = hybrid te of 12/31/2024 (mg/m²)(chronic) = applies only iitities listed at 33.5(4). chronic) = applies only above the lat 33.5(4).	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150* 126 chronic TVS	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead	Metals (ug/L) acute 340 4 5.0 50 TVS TVS TVS	0.02 4 TVS TVS TVS WS
COUCBL02A Designation UP Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a above the faci *Phosphorus(c) facilities listed *Uranium(acu	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Indification(s): Inic) = hybrid Inic of 12/31/2024 Indifice of 12/31/2024	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150* 126 chronic TVS 0.75	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T)	Metals (ug/L) acute 340 4 5.0 50 TVS TVS TVS 50	0.02 4 TVS TVS S TVS WS 1000 TVS
COUCBL02A Designation UP Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a above the faci *Phosphorus(c) facilities listed *Uranium(acu *Uranium(chro	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Iodification(s): Iiic) = hybrid Ite of 12/31/2024 (mg/m²)(chronic) = applies only Iiilties listed at 33.5(4). Ichronic) = applies only above the I at 33.5(4). Ite) = See 33.5(3) for details. Ionic) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150* 126 chronic TVS 0.75 250	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	Metals (ug/L) acute 340 4 5.0 50 TVS TVS TVS 50 TVS 50 TVS	0.02 4 TVS TVS TVS WS 1000 TVS TVS/WS
COUCBL02A Designation UP Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a above the faci *Phosphorus(c) facilities listed *Uranium(acu *Uranium(chro *Zinc(acute) =	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Indification(s): Indication(s): In	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019	MWAT CS-I chronic 6.0 7.0 150* 126 chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	Metals (ug/L) acute 340 4 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS	0.02 4 TVS TVS TVS WS 1000 TVS TVSWS
COUCBL02A Designation UP Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a above the faci *Phosphorus(c) facilities listed *Uranium(acu *Uranium(chro *Zinc(acute) =	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Iodification(s): Iiic) = hybrid Ite of 12/31/2024 (mg/m²)(chronic) = applies only Iiilties listed at 33.5(4). Ichronic) = applies only above the I at 33.5(4). Ite) = See 33.5(3) for details. Ionic) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005	MWAT CS-I chronic 6.0 7.0 150* 126 chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	Metals (ug/L) acute 340 4 5.0 50 TVS TVS TVS 50 TVS	0.02 4 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150
COUCBL02A Designation UP Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a above the faci *Phosphorus(c) facilities listed *Uranium(acu *Uranium(chro *Zinc(acute) =	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Indification(s): Indication(s): In	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150* 126 Chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	Metals (ug/L) acute 340 4 5.0 50 TVS TVS TVS 50 TVS 50 TVS 50 TVS 50 TVS	0.02 4 TVS TVS TVS WS 1000 TVS TVSWS 0.01 150 TVS
COUCBL02A Designation UP Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a above the faci *Phosphorus(c) facilities listed *Uranium(acu *Uranium(chro *Zinc(acute) =	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Indification(s): Indication(s): In	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150* 126 Chronic TVS 0.75 250 0.011 0.05	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	Metals (ug/L) acute 340 4 5.0 50 TVS TVS TVS 50 TVS TVS TVS TVS TVS	0.02 4 TVS TVS S TVS WS 1000 TVS TVSWS 0.01 150 TVS 100
COUCBL02A Designation UP Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a above the faci *Phosphorus(c) facilities listed *Uranium(acu *Uranium(chro *Zinc(acute) =	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Indification(s): Indication(s): In	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150* 126 Chronic TVS 0.75 250 0.011 0.05 0.11*	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	Metals (ug/L) acute 340 4 5.0 50 TVS TVS TVS 50 TVS TVS TVS TVS	0.02 4 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 100 TVS
COUCBL02A Designation UP Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a above the faci *Phosphorus(c) facilities listed *Uranium(acu *Uranium(chro *Zinc(acute) =	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Indification(s): Indication(s): In	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150* 126 Chronic TVS 0.75 250 0.011 0.05 0.11* WS	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium Silver	Metals (ug/L) acute 340 4 5.0 50 TVS TVS TVS 50 TVS 50 TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS TVS TVS	0.02 4 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 1000 TVS 1000 TVS 1000 TVS
COUCBL02A Designation UP Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a above the faci *Phosphorus(c) facilities listed *Uranium(acu *Uranium(chro *Zinc(acute) =	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Indification(s): Indication(s): In	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150* 126 chronic TVS 0.75 250 0.011 0.05 0.11*	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	Metals (ug/L) acute 340 4 5.0 50 TVS TVS TVS 50 TVS TVS TVS TVS	0.02 4 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 100 TVS

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

17h Mainatam	of the Plus Diver from a point one hal	f mile below Covne Valley Bood (20 522400 406 05	000E) to obe	ava the confluence with the	Curan Divor	
COUCBL02B	of the Blue River from a point one hal Classifications	Physical and E		0005) to abo		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	SSE*	SSE*
Qualifiers:	1	D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
	adification(a).	chlorophyll a (mg/m²)			Chromium III(T)	50	
Temporary Mo Arsenic(chroni		E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
,	re of 12/31/2024	,			Copper	TVS	TVS
Expiration But	3 01 12/01/2021	Inorgani	c (ma/L)		Iron		WS
•	ute) = 1/2e^(1.0166(In(hard)-3.132))	_	acute	chronic	Iron(T)		1000
*	ronic) = 1/2e^(1.0166(In(hard)-3.132))	Ammonia	TVS	TVS	Lead	TVS	TVS
,	te) = See 33.5(3) for details.	Boron		0.75	Lead(T)	50	
· ·	onic) = See 33.5(3) for details. e e^(0.9805(ln(hard)+1.402))	Chloride		250	Manganese	TVS	TVS/WS
	= e^(0.9805(ln(hard)+1.402))	Chlorine	0.019	0.011	Mercury(T)		0.01
2.110(011101110)	0 (0.0000(III(IIaIa) · 1.102))	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	SSE*	SSE*
2c. Mainstem	of the Blue River from above the conf	uence with the Swan River to Dill	on Reservoir.				
COUCBL02C	Classifications	Physical and E	Biological		l l	Metals (ug/L)	
Designation	A					, ,	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	DM CS-I	MWAT CS-I	Arsenic		chronic
Reviewable	Aq Life Cold 1 Recreation E	Temperature °C			Arsenic Arsenic(T)	acute	chronic 0.02
	Aq Life Cold 1	Temperature °C D.O. (mg/L)	CS-I	CS-I		acute 340	
Reviewable Qualifiers:	Aq Life Cold 1 Recreation E		CS-I acute	CS-I chronic	Arsenic(T)	acute 340	0.02
	Aq Life Cold 1 Recreation E	D.O. (mg/L)	CS-I acute	CS-I chronic 6.0	Arsenic(T) Cadmium	acute 340 TVS	0.02 TVS
Qualifiers:	Aq Life Cold 1 Recreation E Water Supply	D.O. (mg/L) D.O. (spawning)	CS-I acute 	CS-I chronic 6.0 7.0	Arsenic(T) Cadmium Cadmium(T)	acute 340 TVS 5.0	 0.02 TVS
Qualifiers: Other:	Aq Life Cold 1 Recreation E Water Supply odification(s):	D.O. (mg/L) D.O. (spawning) pH	CS-I acute 6.5 - 9.0	CS-I chronic 6.0 7.0	Arsenic(T) Cadmium Cadmium(T) Chromium III	acute 340 TVS 5.0	 0.02 TVS
Qualifiers: Other: Temporary Me	Aq Life Cold 1 Recreation E Water Supply odification(s):	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	CS-I acute 6.5 - 9.0	CS-I chronic 6.0 7.0	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T)	acute 340 TVS 5.0 50	 0.02 TVS TVS
Qualifiers: Other: Temporary Marsenic(chronic Expiration Date	Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	CS-I acute 6.5 - 9.0 	CS-I chronic 6.0 7.0	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI	acute 340 TVS 5.0 50 TVS	0.02 TVS TVS TVS
Qualifiers: Other: Temporary Management of the control of the cont	Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	CS-I acute 6.5 - 9.0 	CS-I chronic 6.0 7.0	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	acute 340 TVS 5.0 50 TVS TVS	0.02 TVS TVS TVS TVS WS 1000
Qualifiers: Other: Temporary Management of the control of the cont	Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	CS-I acute 6.5 - 9.0 c (mg/L)	CS-I chronic 6.0 7.0 126	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead	acute 340 TVS 5.0 50 TVS TVS TVS TVS	0.02 TVS TVS TVS TVS TVS WS
Qualifiers: Other: Temporary Management of the control of the cont	Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	CS-I acute 6.5 - 9.0 c (mg/L) acute	CS-I chronic 6.0 7.0 126 chronic TVS 0.75	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T)	340 TVS 5.0 50 TVS TVS TVS TVS 50	0.02 TVS TVS TVS TVS TVS WS 1000 TVS
Qualifiers: Other: Temporary Management of the control of the cont	Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorganic Ammonia Boron Chloride	CS-I acute 6.5 - 9.0 c (mg/L) acute TVS	CS-I chronic 6.0 7.0 126 chronic TVS 0.75 250	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	acute 340 TVS 5.0 50 TVS TVS TVS TVS	0.02 TVS TVS TVS TVS TVS WS 1000 TVS TVS/WS
Qualifiers: Other: Temporary Management of the control of the cont	Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorganic Ammonia Boron	CS-I acute 6.5 - 9.0 c (mg/L) acute TVS	CS-I chronic 6.0 7.0 126 chronic TVS 0.75	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	340 TVS 5.0 50 TVS TVS TVS TVS 50	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01
Qualifiers: Other: Temporary Management of the control of the cont	Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide	CS-I acute 6.5 - 9.0 c (mg/L) acute TVS	CS-I chronic 6.0 7.0 126 chronic TVS 0.75 250	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150
Qualifiers: Other: Temporary Management of the control of the cont	Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide Nitrate	CS-I acute 6.5 - 9.0 c (mg/L) acute TVS 0.019	CS-I chronic 6.0 7.0 126 chronic TVS 0.75 250 0.011	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS
Qualifiers: Other: Temporary Management of the control of the cont	Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide	CS-I acute 6.5 - 9.0 c (mg/L) acute TVS 0.019 0.005	CS-I chronic 6.0 7.0 126 chronic TVS 0.75 250 0.011	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 100
Qualifiers: Other: Temporary Management of the control of the cont	Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide Nitrate	CS-I acute 6.5 - 9.0 c (mg/L) acute TVS 0.019 0.005 10	CS-I chronic 6.0 7.0 126 Chronic TVS 0.75 250 0.011	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVSWS 0.01 150 TVS 1000 TVS
Qualifiers: Other: Temporary Management of the control of the cont	Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	CS-I acute 6.5 - 9.0 c (mg/L) acute TVS 0.019 0.005 10	CS-I chronic 6.0 7.0 126 chronic TVS 0.75 250 0.011 0.05	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 100
Qualifiers: Other: Temporary Management of the control of the cont	Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	CS-I acute 6.5 - 9.0 c (mg/L) acute TVS 0.019 0.005 10	CS-I chronic 6.0 7.0 126 chronic TVS 0.75 250 0.011 0.05	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVSWS 0.01 150 TVS 1000 TVS

t = total tr = trout sc = sculpin D.O. = dissolved oxygen
DM = daily maximum

3. Deleted.		_					
COUCBL03	Classifications	Physical and Biolo	gical			Metals (ug/L)	
Designation			DM	MWAT		acute	chronic
Qualifiers:			acute	chronic			
Other:							
		Inorganic (m	g/L)				
			acute	chronic			
	ibutaries, including wetlands, to Dille 1b, 6a, 10-14 and 16.	on Reservoir and all tributaries, including	g wetlands, to th	ne Blue Rive	r above Dillon Reservoir,	except for specific I	istings in Segments
COUCBL04A	Classifications	Physical and Biolo	gical			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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
Temporary M	odification(s):	chlorophyll a (mg/m²)		150	Chromium III(T)	50	
Arsenic(chroni	ic) = hybrid	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
Expiration Dat	e of 12/31/2024				Copper	TVS	TVS
*Uranium(acut	te) = See 33.5(3) for details.	Inorganic (m	g/L)		Iron		WS
,	onic) = See 33.5(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/TVS(sc)

4b. North Fork	of the Swan River, including all tribut	aries and wetlands, from the source to t	he confluence	with the Sw	van River.		
COUCBL04B	Classifications	Physical and Biolog	ical			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
OW	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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
		chlorophyll a (mg/m²)		150	Chromium III(T)	50	
,	e) = See 33.5(3) for details.	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
*Uranium(chro	onic) = See 33.5(3) for details.				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
		Phosphorus		0.11	Selenium	TVS	TVS
		Sulfate		WS	Silver	TVS	TVS(tr)
		Sulfide		0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)
5. Deleted.		T			T		
COUCBL05	Classifications	Physical and Biolog	ical			Metals (ug/L)	
Designation			DM	MWAT		acute	chronic
Qualifiers:			acute	chronic			
Other:							
		Inorganic (mg/	L)				
			acute	chronic			

6a Mainstem	of the Snake River, including all tribu		rce to Dillon Reservoi		specific listings in Segme	ents 6b 7 8 and 9	
COUCBL06A		Physical and		ii, cxccpt ioi	T	Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
UP	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
Qualifiers:	1	D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
		chlorophyll a (mg/m²)		150*	Chromium III(T)	50	
Temporary M		E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
Arsenic(chron	te of 12/31/2024	L. con (por 100 mz)		120	Copper	TVS	TVS
Expiration Dat	le 01 12/31/2024	Inorgan	io (ma/l)		Iron		ws
	(mg/m²)(chronic) = applies only ilities listed at 33.5(4).	inorgan	ic (mg/L)	-bu-ul-	Iron(T)		1000
*Phosphorus(d	chronic) = applies only above the		acute	chronic	Lead	TVS	TVS
facilities listed	* *	Ammonia	TVS	TVS		50	
,	te) = See 33.5(3) for details.	Boron		0.75	Lead(T)		
"Oranium(chro	onic) = See 33.5(3) for details.	Chloride		250	Manganese	TVS	TVSWS
		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
	of Camp Creek, including all tributar			h the Snake			
	Classifications	Physical and				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
0 115	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
*1.1	4-) O 00 5(0) for details	chlorophyll a (mg/m²)		150	Chromium III(T)	50	
•	te) = See 33.5(3) for details.	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
`	onic) = See 33.5(3) for details. = 0.978*e^0.8537(In				Copper	TVS	TVS
Hardness)+1.	5227	Inorgan	ic (mg/L)		Iron		WS
*Zinc(chronic) Hardness)+1.3) = 0.986*e^0.8537(In 3519		acute	chronic	Iron(T)		1000
′		Ammonia	TVS	TVS	Lead	TVS	TVS
				0.75	Lead(T)	50	
		Boron		0.75	Loud(1)	30	
		Boron Chloride		250	Manganese	TVS	TVS/WS
							TVS/WS 0.01
		Chloride		250	Manganese	TVS	
		Chloride Chlorine	0.019	250 0.011	Manganese Mercury(T)	TVS 	0.01
		Chloride Chlorine Cyanide Nitrate	0.019 0.005	250 0.011 	Manganese Mercury(T) Molybdenum(T)	TVS 	0.01 150
		Chloride Chlorine Cyanide Nitrate Nitrite	0.019 0.005 10	250 0.011 0.05	Manganese Mercury(T) Molybdenum(T) Nickel	TVS TVS	0.01 150 TVS
		Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	0.019 0.005 10 	250 0.011 0.05 0.11	Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	TVS TVS TVS	0.01 150 TVS 100 TVS
		Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	0.019 0.005 10 	250 0.011 0.05 0.11 WS	Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium Silver	TVS TVS TVS TVS	0.01 150 TVS 100 TVS TVS(tr)
		Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	0.019 0.005 10 	250 0.011 0.05 0.11	Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium Silver Uranium	TVS TVS TVS TVS varies*	0.01 150 TVS 100 TVS TVS(tr) varies*
		Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	0.019 0.005 10 	250 0.011 0.05 0.11 WS	Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium Silver	TVS TVS TVS TVS	0.01 150 TVS 100 TVS TVS(tr)

All metals are dissolved unless otherwise noted. T = total recoverable

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

7. Mainstem o	f Peru Creek, including all tributarie	s and wetlands, from the source to th	e confluence with	the Snake R	River, except for specific li	stings in Segment 8.	
COUCBL07	Classifications	Physical and Bi	ological			Metals (ug/L)	
Designation	Aq Life Cold 1		DM	MWAT		acute	chronic
UP	Recreation E	Temperature °C	CS-I	CS-I	Arsenic	340	
Qualifiers:			acute	chronic	Arsenic(T)		7.6
Other:		D.O. (mg/L)		6.0	Cadmium	TVS	TVS
		D.O. (spawning)		7.0	Chromium III	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.		рН	6.5 - 9.0		Chromium VI	TVS	TVS
*Uranium(chro	onic) = See 33.5(3) for details.	chlorophyll a (mg/m²)		150	Copper	TVS	TVS
		E. coli (per 100 mL)		126	Iron(T)		1000
					Lead	TVS	TVS
		Inorganic (mg/L)		Manganese	TVS	TVS	
			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			

8. Mainstem of Keystone Gulch, including all tributaries and wetlands, from the source to the confluence with the Snake River. Mainstem of Chihuahua Creek, including all tributaries and wetlands, from the source to the confluence with Peru Creek. Mainstem of the North Fork Snake River, including all tributaries and wetlands, from the source to the confluence with the Snake River. Mainstem of Jones Gulch, including all tributaries and wetlands, from the source to the confluence with the Snake River.

	Classifications	cluding all tributaries and wetlands, from Physical and Biologi		and connider		Acute chronic 340 0.02 TVS TVS 5.0 TVS 50		
	Agriculture	i nyolodi dila Biologi	DM	MWAT		, • ,	chronic	
	Ag Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic			
	Recreation E	Temperature C	acute	chronic				
	Water Supply	D.O. (111 111)			Arsenic(T)			
Qualifiers:	тися сирріу	D.O. (mg/L)		6.0	Cadmium		IVS	
		D.O. (spawning)		7.0	Cadmium(T)	5.0		
Other:		pH	6.5 - 9.0		Chromium III		TVS	
Temporary Modification(s):		chlorophyll a (mg/m²)		150*	Chromium III(T)	50		
Arsenic(chroni	c) = hybrid	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS	
Expiration Date	e of 12/31/2024				Copper	TVS	TVS	
*chlorophyll a	(mg/m²)(chronic) = applies only	Inorganic (mg/L)		Iron		WS		
above the facil	ities listed at 33.5(4).		acute	chronic	Iron(T)		1000	
*Phosphorus(c facilities listed	chronic) = applies only above the at 33.5(4).	Ammonia	TVS	TVS	Lead	TVS	TVS	
*Uranium(acut	e) = See 33.5(3) for details.	Boron		0.75	Lead(T)	50		
*Uranium(chro	nic) = See 33.5(3) for details.	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/TVS(sc)	

9. Mainstem o	f Deer Creek, including all tributari	es and wetlands, from the source to	the confluence with	he Snake R	liver.		
COUCBL09	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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
		chlorophyll a (mg/m²)		150	Chromium III(T)	50	
•	te) = See 33.5(3) for details.	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
*Uranium(chro	onic) = See 33.5(3) for details.				Copper	TVS	TVS
		Inorgar	nic (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
		Phosphorus		0.11	Selenium	TVS	TVS
		Sulfate		WS	Silver	TVS	TVS(tr)
		Sulfide		0.002	Uranium	varies*	varies*
		Sullide		0.002	Zinc	TVS	TVS
10 Mainstem	of French Gulch, including all tribu	taries and wetlands, from the source	e to a point 1.5 miles	below Linco			1 7 0
COUCBL10	Classifications	Physical and		20.011 200	1	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
Qualifiers:	·	D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
		chlorophyll a (mg/m²)		150	Chromium III(T)	50	
*Uranium(acu	te) = See 33.5(3) for details.	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
*Uranium(chro	onic) = See 33.5(3) for details.	, , , , , , , , , , , , , , , , , , ,			Copper	TVS	TVS
		Inorgan	nic (mg/L)		Iron		WS
			acute	chronic	Iron(T)		1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron		0.75	Lead(T)	50	170
		Chloride		250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)		0.01
			0.019		Molybdenum(T)		150
		Cyanide			Nickel	TVS	TVS
		Nitrate	10	0.05			
		Nitrite		0.05	Nickel(T)		100
		Phosphorus		0.11	Selenium	TVS	TVS
		Sulfate		WS	Silver	TVS	TVS(tr)
		Sulfide		0.002	Uranium	varies*	varies*
		i e			Zinc	TVS	TVS

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

11. Mainstem	of French Gulch from a point 1.5 r	niles below Lincoln (39.484661, -105	i.995074) to the conf	luence with t	the Blue River.		
COUCBL11	Classifications	Physical and	· · · · · · · · · · · · · · · · · · ·			Metals (ug/L)	
Designation	Agriculture	-	DM	MWAT		acute	chronic
UP	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	
	Recreation P		acute	chronic	Arsenic(T)		7.6
Qualifiers:		D.O. (mg/L)		6.0	Cadmium	EQ*	EQ*
Other:		D.O. (spawning)		7.0	Chromium III	TVS	TVS
		рН	6.5 - 9.0		Chromium III(T)		100
*Cadmium(ac	cute) = existing quality	chlorophyll a (mg/m²)		150	Chromium VI	TVS	TVS
*Cadmium(ch	nronic) = existing quality	E. coli (per 100 mL)		205	Copper	TVS	TVS
·	ute) = See 33.5(3) for details.				Iron(T)		1000
•	ronic) = See 33.5(3) for details.	Inorgan	ic (mg/L)		Lead	TVS	TVS
	= existing quality		acute	chronic	Manganese	TVS	TVS
"Zinc(cnronic)) = existing quality	Ammonia	TVS	TVS	Mercury(T)		0.01
		Boron		0.75	Molybdenum(T)		150
		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	EQ*	EQ*
		Phosphorus		0.11			
		Sulfate					
		Sulfide		0.002			
12. Mainstem	of Illinois Gulch and Fredonia Gul	ch from their sources to their conflue	nces with the Blue R	iver.	•		
COUCBL12	Classifications	Physical and	Biological		ا	Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	
	Recreation P		acute	chronic	Arsenic(T)		0.02-10 A
	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
		chlorophyll a (mg/m²)		150	Chromium III(T)	50	
*Uranium(acu	, , ,	E. coli (per 100 mL)		005	Chromium VI	TVS	TVS
furanium(acute) = See 33.5(3) for details.				205			
*Uranium(chr	ronic) = See 33.5(3) for details.			205	Copper	TVS	TVS
*Uranium(chr	onic) = See 33.5(3) for details.	Inorgan	ic (mg/L)	205		TVS 	TVS WS
*Uranium(chr	onic) = See 33.5(3) for details.	Inorgan		chronic	Copper		
*Uranium(chr	onic) = See 33.5(3) for details.	Inorgan	ic (mg/L)		Copper Iron		WS
*Uranium(chr	onic) = See 33.5(3) for details.	-	ic (mg/L) acute	chronic	Copper Iron Iron(T)		WS 1000
*Uranium(chr	onic) = See 33.5(3) for details.	Ammonia	ic (mg/L) acute TVS	chronic TVS	Copper Iron Iron(T) Lead	 TVS	WS 1000 TVS
*Uranium(chr	onic) = See 33.5(3) for details.	Ammonia Boron	ic (mg/L) acute TVS	chronic TVS 0.75	Copper Iron Iron(T) Lead Lead(T)	 TVS 50	WS 1000 TVS
*Uranium(chr	onic) = See 33.5(3) for details.	Ammonia Boron Chloride	ic (mg/L) acute TVS	chronic TVS 0.75 250	Copper Iron Iron(T) Lead Lead(T) Manganese	 TVS 50 TVS	WS 1000 TVS TVS/WS
*Uranium(chr	onic) = See 33.5(3) for details.	Ammonia Boron Chloride Chlorine	ic (mg/L) acute TVS 0.019	chronic TVS 0.75 250 0.011	Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	 TVS 50 TVS	WS 1000 TVS TVS/WS 0.01
*Uranium(chr	onic) = See 33.5(3) for details.	Ammonia Boron Chloride Chlorine Cyanide	acute TVS 0.019 0.005	chronic TVS 0.75 250 0.011	Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	 TVS 50 TVS 	WS 1000 TVS TVS/WS 0.01 150
*Uranium(chr	onic) = See 33.5(3) for details.	Ammonia Boron Chloride Chlorine Cyanide Nitrate	ic (mg/L) acute TVS 0.019 0.005 10	chronic TVS 0.75 250 0.011	Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	 TVS 50 TVS TVS	WS 1000 TVS TVS/WS 0.01 150 TVS
*Uranium(chr	onic) = See 33.5(3) for details.	Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	ic (mg/L) acute TVS 0.019 0.005 10	chronic TVS 0.75 250 0.011 0.05	Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	TVS 50 TVS TVS	WS 1000 TVS TVSWS 0.01 150 TVS 100
*Uranium(chr	onic) = See 33.5(3) for details.	Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	ic (mg/L) acute TVS 0.019 0.005 10	chronic TVS 0.75 250 0.011 0.05 0.11	Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	TVS 50 TVS TVS TVS TVS	WS 1000 TVS TVSWS 0.01 150 TVS 100 TVS

tr = total tr = trout sc = sculpin D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 33.6 for further details on applied standards.

13. Mainstem of Tenmile Creek from the Climax Parshall Flume (39.447556, -106.157003) to a point immediately above the confluence of West Tenmile Creek and all tributaries and wetlands from the source of Tenmile Creek to a point immediately above the confluence with West Tenmile Creek, except for the specific listing in Segment 15. Metals (ug/L) COUCBL13 Classifications Physical and Biological Designation DM **MWAT** chronic Agriculture Reviewable Aa Life Cold 1 Temperature °C CS-I CS-I Arsenic 340 Recreation P acute chronic Arsenic(T) 7.6 ---Qualifiers: D.O. (mg/L) 6.0 Cadmium **TVS TVS** D.O. (spawning) 7.0 Other: Chromium III TVS TVS 6.5 - 9.0 Chromium III(T) 100 *Any water quality based effluent limit shall not chlorophyll a (mg/m²) 150* TVS ---Chromium VI TVS cause or contribute to exceedances of water quality standards adopted to protect downstream E. coli (per 100 mL) 205 Copper TVS TVS *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 33.5(4). Iron(T) 1000 Inorganic (mg/L) Lead TVS **TVS** *Phosphorus(chronic) = applies only above the facilities listed at 33.5(4). acute chronic Manganese TVS TVS *Uranium(acute) = See 33.5(3) for details. Ammonia TVS TVS Mercury(T) 0.01 *Uranium(chronic) = See 33.5(3) for details. 0.75 Molybdenum(T) Boron ---------Nickel TVS TVS Chloride Chlorine 0.019 0.011 Selenium TVS TVS TVS(tr) Cyanide 0.005 Silver TVS Nitrate 100 Uranium varies* varies* Nitrite 0.05 TVS Zinc TVS/TVS(sc) Phosphorus 0.11*

14. Mainstem of Tenmile Creek, including all tributaries and wetlands, from a point immediately above the confluence with West Tenmile Creek to Dillon Reservoir, except for the specific listings in Segment 16.

0.002

Sulfate Sulfide

COUCBL14	Classifications	Physical and Biolo	gical			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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		рН	6.5 - 9.0		Chromium III		TVS
Temporary Mo	odification(s):	chlorophyll a (mg/m²)		150*	Chromium III(T)	50	
Arsenic(chroni	c) = hybrid	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
Expiration Date	e of 12/31/2024				Copper	TVS	TVS
Molybdenum(c	chronic) = current	Inorganic (mg/L)			Iron		WS
Expiration Date	e of 6/30/2023		acute	chronic	Iron(T)		1000
·		Ammonia	TVS	TVS	Lead	TVS	TVS
above the facil	(mg/m²)(chronic) = applies only lities listed at 33.5(4).	Boron		0.75	Lead(T)	50	
*Phosphorus(c facilities listed	chronic) = applies only above the	Chloride		250	Manganese	TVS	TVS/WS
	te) = See 33.5(3) for details.	Chlorine	0.019	0.011	Mercury(T)		0.01
*Uranium(chro	onic) = See 33.5(3) for details.	Cyanide	0.005		Molybdenum(T)		210
*TempMod: Mo	olybdenum = Adopted 6/9/2014	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/TVS(sc)

15. Mainstem	of Clinton Creek from the source to	o the confluence with Tenmile Creek	K				
COUCBL15	Classifications	Physical and	Biological		ı	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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
		chlorophyll a (mg/m²)		150	Chromium III(T)	50	
*Uranium(acu	te) = See 33.5(3) for details.	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
*Uranium(chro	onic) = See 33.5(3) for details.				Copper	TVS	TVS
		Inorgar	nic (mg/L)		Iron		WS
			acute	chronic	lron(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*
		Sullide		0.002	Zinc	TVS	TVS
16 All tributar	ies to the Blue River including all	L wetlands, within the Eagles Nest and	d Ptarmigan Peak Wil	derness Are		1 40	1 7 0
COUCBL16	Classifications	Physical and				Metals (ug/L)	
Designation	Agriculture	-	DM	MWAT		acute	chronic
OW	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
Qualifiers:	.T	D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
Othion.		chlorophyll a (mg/m²)		150	Chromium III(T)	50	
*Uranium(acu	te) = See 33.5(3) for details.	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
*Uranium(chro	onic) = See 33.5(3) for details.	2. con (por 100 m2)		.20	Copper	TVS	TVS
		Inorgan	nic (mg/L)		Iron		WS
		morgan	acute	chronic	Iron(T)		1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron		0.75	Lead(T)	50	1 70
						TVS	TVS/WS
		Chloride Chlorine	0.010	250 0.011	Manganese Mercury(T)		
			0.019		Molybdenum(T)		0.01
		Cyanide	0.005			 TV6	150
		Nitrate	10	0.05	Nickel Nickel (T)	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

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

17 Mainstem							
		Dillon Reservoir to the confluence		ver.	1		
COUCBL17	Classifications	Physical and	Biological			Metals (ug/L)	
	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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
Temporary Mo	odification(s):	chlorophyll a (mg/m²)			Chromium III(T)	50	
Arsenic(chroni	ic) = hybrid	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
Expiration Date	e of 12/31/2024				Copper	TVS	TVS
*I Iranium/acut	te) = See 33.5(3) for details.	Inorgan	ic (mg/L)		Iron		WS
	onic) = See 33.5(3) for details.		acute	chronic	Iron(T)		1000
Oraniani(onic	orne) - dec do.o(d) 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			Selenium	TVS	TVS
		Sulfate		WS	Silver	TVS	TVS(tr)
		Sulfide		0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)
18. All tributari	ios to the Plue Piver, including all v	vetlands, from the outlet of Dillon Re					
	ies to the blue Kiver, including all v	vetialius, ironi the outlet of billon its	eservoir to the outlet	of Green Mo	ountain Reservoir, except	for the specific listing	ngs in Segment 16.
COUCBL18	Classifications	Physical and		of Green Mo	ountain Reservoir, except	for the specific listin	ngs in Segment 16.
	_			of Green Mo	ountain Reservoir, except	•	ngs in Segment 16.
	Classifications		Biological		Arsenic	Metals (ug/L)	
Designation	Classifications Agriculture	Physical and	Biological DM	MWAT		Metals (ug/L)	chronic
Designation	Classifications Agriculture Aq Life Cold 1	Physical and	Biological DM CS-I	MWAT CS-I	Arsenic	Metals (ug/L) acute 340	chronic
Designation	Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C	DM CS-I acute	MWAT CS-I chronic	Arsenic Arsenic(T)	Metals (ug/L) acute 340	chronic 0.02
Designation Reviewable	Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C D.O. (mg/L)	Biological DM CS-I acute	MWAT CS-I chronic 6.0	Arsenic Arsenic(T) Cadmium	Metals (ug/L) acute 340 TVS	chronic 0.02
Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Physical and Temperature °C D.O. (mg/L) D.O. (spawning)	Biological DM CS-I acute	MWAT CS-I chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T)	Metals (ug/L) acute 340 TVS 5.0	chronic 0.02 TVS
Designation Reviewable Qualifiers: Other: Temporary Me	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s):	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH	DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III	Metals (ug/L) acute 340 TVS 5.0	chronic 0.02 TVS TVS
Designation Reviewable Qualifiers: Other: Temporary Management Ma	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s):	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T)	Metals (ug/L) acute 340 TVS 5.0 50	chronic 0.02 TVS TVS
Designation Reviewable Qualifiers: Other: Temporary Meansenic(chronic Expiration Date	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI	Metals (ug/L) acute 340 TVS 5.0 50 TVS	chronic 0.02 TVS TVS TVS
Designation Reviewable Qualifiers: Other: Temporary Meansenic(chronic Expiration Date *Urranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS	chronic 0.02 TVS TVS TVS TVS
Designation Reviewable Qualifiers: Other: Temporary Meansenic(chronic Expiration Date *Urranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L)	MWAT CS-I chronic 6.0 7.0 150 126	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron	Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS	chronic 0.02 TVS TVS TVS WS
Designation Reviewable Qualifiers: Other: Temporary Meansenic(chronic Expiration Date *Urranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute	MWAT CS-I chronic 6.0 7.0 150 126 chronic	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T)	Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS	chronic 0.02 TVS TVS TVS WS 1000
Designation Reviewable Qualifiers: Other: Temporary Meansenic(chronic Expiration Date *Urranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan	Biological DM CS-I acute 6.5 - 9.0 site (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Corport Iron Iron(T) Lead	Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS	Chronic 0.02 TVS TVS TVS TVS TVS WS 1000 TVS
Designation Reviewable Qualifiers: Other: Temporary Marsenic(chronic Expiration Date *Urranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron	Biological DM CS-I acute 6.5 - 9.0 cic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T)	Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50	Chronic 0.02 TVS TVS TVS TVS TVS TVS TVS WS 1000 TVS
Designation Reviewable Qualifiers: Other: Temporary Marsenic(chronic Expiration Date *Urranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride	Biological DM CS-I acute 6.5 - 9.0 iic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS	Chronic 0.02 TVS TVS TVS WS 1000 TVS TVSWS
Designation Reviewable Qualifiers: Other: Temporary Marsenic(chronic Expiration Date *Urranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS	Chronic 0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01
Designation Reviewable Qualifiers: Other: Temporary Marsenic(chronic Expiration Date *Urranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate	Biological DM CS-I acute 6.5 - 9.0 iic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS	Chronic 0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150
Designation Reviewable Qualifiers: Other: Temporary Marsenic(chronic Expiration Date *Urranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	Biological DM CS-I acute 6.5 - 9.0 sic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011 0.05	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS 50 TVS TVS TVS TVS TVS	Chronic 0.02 TVS TVS TVS TVS TVS TVS US 1000 TVS TVSAWS 0.01 150 TVS 1000
Designation Reviewable Qualifiers: Other: Temporary Marsenic(chronic Expiration Date *Urranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	Biological DM CS-I acute 6.5 - 9.0 iic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011 0.05 0.11	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS TVS 50 TVS	Chronic 0.02 TVS TVS TVS TVS TVS TVS S TVS TVS TVS TVS T
Designation Reviewable Qualifiers: Other: Temporary Marsenic(chronic Expiration Date *Urranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	Biological DM CS-I acute 6.5 - 9.0 iic (mg/L) acute TVS 0.019 0.005 10 -	MWAT CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011 0.05 0.11 WS	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium Silver	Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS 50 TVS	Chronic 0.02 TVS TVS TVS S TVS WS 1000 TVS TVS/WS 0.01 150 TVS 100 TVS
Designation Reviewable Qualifiers: Other: Temporary Management Ma	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	Biological DM CS-I acute 6.5 - 9.0 iic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011 0.05 0.11	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS TVS 50 TVS	Chronic 0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 100 TVS

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

19. All tributar Segment 20.							
COUCBL19	Classifications	Physical and	Biological			letals (ug/L)	
Designation	Agriculture	•	DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	
	Recreation N		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
		chlorophyll a (mg/m²)			Chromium III(T)	50	
Uranium(acu	te) = See 33.5(3) for details.	E. coli (per 100 mL)		630	Chromium VI	TVS	TVS
Uranium(chro	onic) = See 33.5(3) for details.				Copper	TVS	TVS
		Inorgan	ic (mg/L)		Iron		WS
			acute	chronic	lron(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)
		Gunato		****	Cityo	1 10	
		Sulfide		0.002	Uranium	varies*	varies*
		Sulfide		0.002	Uranium Zinc	varies*	
20. Mainstem	s of Elliot Creek and Spruce Creek				Zinc	varies* TVS	
	s of Elliot Creek and Spruce Creek Classifications	Sulfide , including all tributaries and wetland Physical and	s, from their sources		Zinc uence with the Blue River.		varies* TVS
COUCBL20		, including all tributaries and wetland	s, from their sources		Zinc uence with the Blue River.	TVS	TVS
COUCBL20 Designation	Classifications	, including all tributaries and wetland	s, from their sources	to the confli	Zinc uence with the Blue River.	TVS	chronic
COUCBL20 Designation	Classifications Agriculture	, including all tributaries and wetland Physical and	s, from their sources Biological DM	to the confli	Zinc uence with the Blue River.	TVS Metals (ug/L) acute	chronic
COUCBL20 Designation	Classifications Agriculture Aq Life Cold 1	, including all tributaries and wetland Physical and	s, from their sources Biological DM CS-I	MWAT CS-I	Zinc uence with the Blue River. Arsenic	TVS letals (ug/L) acute 340	chronic
COUCBL20 Designation Reviewable	Classifications Agriculture Aq Life Cold 1 Recreation N	, including all tributaries and wetland Physical and Temperature °C	s, from their sources Biological DM CS-I acute	MWAT CS-I chronic	Zinc uence with the Blue River. Arsenic Arsenic(T)	TVS letals (ug/L) acute 340	chronic 0.02
COUCBL20 Designation Reviewable Qualifiers:	Classifications Agriculture Aq Life Cold 1 Recreation N	, including all tributaries and wetland Physical and Temperature °C D.O. (mg/L)	s, from their sources Biological DM CS-I acute	MWAT CS-I chronic 6.0	Zinc uence with the Blue River. Arsenic Arsenic(T) Cadmium	TVS letals (ug/L) acute 340 TVS	chronic 0.02 TVS
20. Mainstem: COUCBL20 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N	Temperature °C D.O. (mg/L) D.O. (spawning)	s, from their sources Biological DM CS-I acute	MWAT CS-I chronic 6.0 7.0	Zinc uence with the Blue River. Arsenic Arsenic(T) Cadmium Cadmium(T)	TVS letals (ug/L) acute 340 TVS 5.0	chronic 0.02 TVS
COUCBL20 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH	s, from their sources Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0	Zinc uence with the Blue River. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III	TVS details (ug/L)	chronic 0.02 TVS
COUCBL20 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	s, from their sources Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0	Zinc uence with the Blue River. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T)	TVS letals (ug/L)	chronic 0.02 TVS TVS
COUCBL20 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	s, from their sources Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI	TVS letals (ug/L) acute 340 TVS 5.0 50 TVS	chronic 0.02 TVS TVS TVS TVS
COUCBL20 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	s, from their sources Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III(T) Chromium VI Copper	TVS letals (ug/L) acute 340 TVS 5.0 50 TVS TVS	chronic chr
COUCBL20 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	s, from their sources Biological DM CS-I acute 6.5 - 9.0 cic (mg/L)	MWAT CS-I chronic 6.0 7.0 630	Zinc uence with the Blue River. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron	TVS Ietals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS	chronic chr
COUCBL20 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	, including all tributaries and wetland Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan	s, from their sources Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute	MWAT CS-I chronic 6.0 7.0 630 chronic	Zinc uence with the Blue River. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T)	TVS Iletals (ug/L) acute 340 TVS 5.0 50 TVS TVS	Chronic Chr
COUCBL20 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	, including all tributaries and wetland Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan	s, from their sources Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 630 chronic TVS	Zinc uence with the Blue River. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead	TVS letals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS	
COUCBL20 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron	s, from their sources Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 630 chronic TVS 0.75	Zinc uence with the Blue River. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T)	TVS letals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50	Chronic Chr
COUCBL20 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	nincluding all tributaries and wetland Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride	s, from their sources Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 630 chronic TVS 0.75 250	Zinc uence with the Blue River. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	TVS acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS TVS 50 TVS	Chronic Chr
COUCBL20 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	, including all tributaries and wetland Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine	s, from their sources Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019	MWAT CS-I chronic 6.0 7.0 630 chronic TVS 0.75 250 0.011	Zinc uence with the Blue River. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	TVS Iletals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS	TVS chronic 0.02 TVS TVS TVS TVS 1000 TVS TVS TVS 0.01
COUCBL20 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	nincluding all tributaries and wetland Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide	s, from their sources Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005	MWAT CS-I chronic 6.0 7.0 630 chronic TVS 0.75 250 0.011	Zinc uence with the Blue River. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	TVS Iletals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS	TVS chronic 0.02 TVS TVS TVS TVS 0.01 150 TVS
COUCBL20 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	nincluding all tributaries and wetland Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate	s, from their sources Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 630 chronic TVS 0.75 250 0.011	Zinc uence with the Blue River. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	TVS Iletals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS TVS TVS	chronic chr
COUCBL20 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	nincluding all tributaries and wetland Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	s, from their sources Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 630 Chronic TVS 0.75 250 0.011 0.05 0.11	Zinc uence with the Blue River. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	TVS Iletals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS	TVS chronic 0.02 TVS TVS TVS TVS 1000 TVS TVS TVS TVS TVS TVS TVS
COUCBL20 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	, including all tributaries and wetland Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	s, from their sources Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 630 chronic TVS 0.75 250 0.011 0.05	Zinc uence with the Blue River. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	TVS Iletals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS	TVS chronic 0.02 TVS TVS TVS TVS 1000 TVS TVS TVS TVS TVS TVS 1000 TVS 1000 TVS

All metals are dissolved unless otherwise noted. T = total recoverable

t = total tr = trout sc = sculpin D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum week!

21 All lakes o	nd reconvoire tributery to the Plue Div						
COUCBL21	nd reservoirs tributary to the Blue Riv	Physical and P		mess Areas.	T	Metals (ug/L)	
Designation	Agriculture	i iiyoloai aii	DM	MWAT		acute	chronic
OW	Ag Life Cold 1	Temperature °C	CL,CLL	CL,CLL	Arsenic	340	
	Recreation E	Tomporataro o	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	J.0	TVS
Other.		chlorophyll a (ug/L)		8*	Chromium III(T)	50	
	(ug/L)(chronic) = applies only to	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
lakes and rese area.	ervoirs larger than 25 acres surface	L. con (per 100 mL)		120	Copper	TVS	TVS
	chronic) = applies only to lakes and per than 25 acres surface area.	Inorga	nic (mg/L)		Iron		WS
	te) = See 33.5(3) for details.	inorga	acute	chronic	Iron(T)		1000
,	onic) = See 33.5(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	9		0.01
				0.011	Mercury(T)		150
		Cyanide	0.005		Molybdenum(T)	TVS	TVS
		Nitrate	10	0.05	Nickel		
		Nitrite		0.05	Nickel(T)		100
		Phosphorus		0.025*	Selenium	TVS	TVS
		Sulfate		WS	Silver	TVS	TVS(tr)
		Sulfide		0.002	Uranium	varies*	varies*
22 Dillon Res	ervoir and all lakes and receivoirs tri				Zinc	varies* TVS	varies*
	ervoir and all lakes and reservoirs tril	butary to the Blue River above D	illon Reservoir, exce		Zinc listings in Segment 21.	TVS	
COUCBL22	Classifications		illon Reservoir, exce d Biological	ot for specific	Zinc listings in Segment 21.	TVS Metals (ug/L)	TVS
COUCBL22 Designation	Classifications Agriculture	butary to the Blue River above D Physical and	illon Reservoir, exce d Biological DM	ot for specific	Zinc listings in Segment 21.	TVS Metals (ug/L) acute	TVS
COUCBL22	Classifications	butary to the Blue River above D	illon Reservoir, except Biological DM CL,CLL	MWAT CL,CLL	Zinc listings in Segment 21. Arsenic	TVS Metals (ug/L) acute 340	chronic
COUCBL22 Designation	Classifications Agriculture Aq Life Cold 1	Physical and Temperature °C	illon Reservoir, exce d Biological DM CL,CLL acute	MWAT CL,CLL chronic	Zinc listings in Segment 21. Arsenic Arsenic(T)	TVS Metals (ug/L) acute 340	chronic 0.02
COUCBL22 Designation	Classifications Agriculture Aq Life Cold 1 Recreation E	D.O. (mg/L)	illon Reservoir, except Biological DM CL,CLL	MWAT CL,CLL chronic 6.0	Zinc listings in Segment 21. Arsenic Arsenic(T) Cadmium	TVS Metals (ug/L) acute 340 TVS	chronic 0.02 TVS
COUCBL22 Designation	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	D.O. (spawning)	illon Reservoir, exce d Biological DM CL,CLL acute	MWAT CL,CLL chronic 6.0 7.0	Zinc listings in Segment 21. Arsenic Arsenic(T) Cadmium Cadmium(T)	TVS #letals (ug/L) acute 340 TVS 5.0	chronic 0.02 TVS
COUCBL22 Designation Reviewable Qualifiers:	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Dutary to the Blue River above D Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH	illon Reservoir, exce d Biological DM CL,CLL acute	MWAT CL,CLL chronic 6.0 7.0	Zinc listings in Segment 21. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III	TVS #letals (ug/L) acute 340 TVS 5.0	chronic 0.02 TVS TVS
COUCBL22 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS*	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L)	illon Reservoir, excel d Biological DM CL,CLL acute 6.5 - 9.0	MWAT CL,CLL chronic 6.0 7.0 9 8*	Zinc listings in Segment 21. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T)	TVS Metals (ug/L) acute 340 TVS 5.0 50	Chronic 0.02 TVS TVS
COUCBL22 Designation Reviewable Qualifiers: Other: Temporary M	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* odification(s):	Dutary to the Blue River above D Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH	illon Reservoir, except Biological DM CL,CLL acute 6.5 - 9.0	MWAT CL,CLL chronic 6.0 7.0	Zinc listings in Segment 21. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T)	TVS #letals (ug/L) acute 340 TVS 5.0 50 TVS	TVS chronic 0.02 TVS TVS TVS
COUCBL22 Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* odification(s): ic) = hybrid	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL)	illon Reservoir, excel d Biological DM CL,CLL acute 6.5 - 9.0	MWAT CL,CLL chronic 6.0 7.0 9 8*	Zinc listings in Segment 21. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	TVS #letals (ug/L) acute 340 TVS 5.0 50 TVS TVS	TVS chronic 0.02 TVS TVS TVS TVS
COUCBL22 Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* odification(s): ic) = hybrid e of 12/31/2024	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL)	illon Reservoir, excel d Biological DM CL,CLL acute 6.5 - 9.0 nic (mg/L)	MWAT CL,CLL chronic 6.0 7.0 9 8* 126	Zinc listings in Segment 21. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	TVS acute 340 TVS 5.0 50 TVS TVS	chronic 0.02 TVS TVS TVS TVS WS
COUCBL22 Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* odification(s): ic) = hybrid te of 12/31/2024 (ug/L)(chronic) = applies only above	Dutary to the Blue River above D Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL)	illon Reservoir, excel d Biological DM CL,CLL acute 6.5 - 9.0 nic (mg/L) acute	MWAT CL,CLL chronic 6.0 7.0 0 8* 126 chronic	Zinc listings in Segment 21. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T)	TVS acute 340 TVS 5.0 50 TVS TVS	TVS chronic 0.02 TVS TVS TVS WS 1000
COUCBL22 Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a the facilities lis and reservoirs	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* odification(s): ic) = hybrid ie of 12/31/2024 (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes alarger than 25 acres surface area.	Dutary to the Blue River above D Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorga	illon Reservoir, excel d Biological DM CL,CLL acute 6.5 - 9.0 unic (mg/L) acute TVS	MWAT CL,CLL chronic 6.0 7.0 0 8* 126 chronic TVS	Zinc listings in Segment 21. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead	TVS #letals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS	TVS chronic 0.02 TVS TVS TVS TVS WS 1000 TVS
COUCBL22 Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a the facilities lis and reservoirs	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* odification(s): ic) = hybrid ie of 12/31/2024 (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes	Dutary to the Blue River above D Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorga Ammonia Boron	illon Reservoir, excel d Biological DM CL,CLL acute 6.5 - 9.0 nic (mg/L) acute TVS	MWAT CL,CLL chronic 6.0 7.0 9 8* 126 chronic TVS 0.75	Zinc listings in Segment 21. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T)	TVS #letals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50	TVS chronic 0.02 TVS TVS TVS TVS WS 1000 TVS
COUCBL22 Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a the facilities lis and reservoirs *Classification Pasture Tarn *Phosphorus(c	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* odification(s): ic) = hybrid ie of 12/31/2024 (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes a larger than 25 acres surface area. i: DUWS Applies only to Goose chronic) = 0.0074 mg/l for Dillon	Dutary to the Blue River above D Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorga Ammonia Boron Chloride	illon Reservoir, excel d Biological DM CL,CLL acute 6.5 - 9.0 nic (mg/L) acute TVS	MWAT CL,CLL chronic 6.0 7.0 9 8* 126 chronic TVS 0.75 250	Zinc listings in Segment 21. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	TVS # details (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS	TVS chronic 0.02 TVS TVS TVS WS 1000 TVS TVSWS
COUCBL22 Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a the facilities lis and reservoirs *Classification Pasture Tarn *Phosphorus(c. Reservoir in th for the months	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* odification(s): ic) = hybrid ie of 12/31/2024 (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes a larger than 25 acres surface area. i: DUWS Applies only to Goose chronic) = 0.0074 mg/l for Dillon ie top 15 meters of the water column of July, August, September &	Dutary to the Blue River above D Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorga Ammonia Boron Chloride Chlorine	illon Reservoir, excel d Biological DM CL,CLL acute 6.5 - 9.0 nic (mg/L) acute TVS 0.019	MWAT CL,CLL chronic 6.0 7.0 0 8* 126 chronic TVS 0.75 250 0.011	Zinc listings in Segment 21. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	TVS # detais (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS	TVS chronic 0.02 TVS TVS TVS WS 1000 TVS TVSWS 0.01
COUCBL22 Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a the facilities lis and reservoirs *Classification Pasture Tarn *Phosphorus(Reservoir in tr for the months October. Addii	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* odification(s): ic) = hybrid ie of 12/31/2024 (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes a larger than 25 acres surface area. i: DUWS Applies only to Goose chronic) = 0.0074 mg/l for Dillon ie top 15 meters of the water column of July, August, September & tional total phosphorus or Chla	Dutary to the Blue River above D Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorga Ammonia Boron Chloride Chlorine Cyanide	illon Reservoir, excel d Biological DM CL,CLL acute 6.5 - 9.0 nic (mg/L) acute TVS 0.019 0.005	MWAT CL,CLL chronic 6.0 7.0 0 8* 126 chronic TVS 0.75 250 0.011	Zinc listings in Segment 21. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	TVS #Ietals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS	TVS chronic 0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150
COUCBL22 Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a the facilities lis and reservoirs *Classification Pasture Tarn *Phosphorus(c Reservoir in the for the months October. Addit standards addo Dillon Reservoir	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* odification(s): ic) = hybrid ie of 12/31/2024 (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes alarger than 25 acres surface area. i: DUWS Applies only to Goose chronic) = 0.0074 mg/l for Dillon ie top 15 meters of the water column of July, August, September & tional total phosphorus or Chla pyted for this segment do not apply to bir.	Dutary to the Blue River above D Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorga Ammonia Boron Chloride Chlorine Cyanide Nitrate	illon Reservoir, except Biological DM CL,CLL acute 6.5 - 9.0 nic (mg/L) acute TVS 0.019 0.005 10	MWAT CL,CLL chronic 6.0 7.0 0 8* 126 chronic TVS 0.75 250 0.011	Zinc listings in Segment 21. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	TVS #letals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS TVS TVS TVS TVS	TVS chronic 0.02 TVS TVS TVS WS 1000 TVS TVSWS 0.01 150 TVS
COUCBL22 Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a the facilities lia and reservoirs *Classification Pasture Tarn *Phosphorus(counce) Reservoir in the for the months October. Addit standards add Dillon Reservoir *Phosphorus(counce) *Phosphorus(counce) *Phosphorus(counce) *Phosphorus(counce) *Phosphorus(counce) *Phosphorus(counce) *Phosphorus(counce) *Phosphorus(counce)	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* odification(s): ic) = hybrid ie of 12/31/2024 (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes a larger than 25 acres surface area. i: DUWS Applies only to Goose chronic) = 0.0074 mg/l for Dillon the top 15 meters of the water column is of July, August, September & tional total phosphorus or Chla pled for this segment do not apply to bir. chronic) = applies only above the	Dutary to the Blue River above D Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorga Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	illon Reservoir, excel d Biological DM CL,CLL acute 6.5 - 9.0 nic (mg/L) acute TVS 0.019 0.005 10	mwat CL,CLL chronic 6.0 7.0 126 chronic TVS 0.75 250 0.011 0.05	Zinc listings in Segment 21. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	TVS #letals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS TVS TVS TVS TVS	TVS chronic 0.02 TVS TVS TVS S TVS US 1000 TVS TVSWS 0.01 150 TVS 1000
COUCBL22 Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a the facilities lis and reservoirs *Classification Pasture Tarn *Phosphorus(Reservoir in the for the months October. Addit standards add Dillon Reserve *Phosphorus(facilities listed reservoirs larg	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* odification(s): ic) = hybrid ie of 12/31/2024 (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes a larger than 25 acres surface area.: DUWS Applies only to Goose chronic) = 0.0074 mg/l for Dillon is of July, August, September & chronic) and total phosphorus or Chla in the properties of the water column is of July, August, September & chronic) applies only above the at 33.5(4), applies only to lakes and ger than 25 acres surface area.	Dutary to the Blue River above D Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorga Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	illon Reservoir, excel d Biological DM CL,CLL acute 6.5 - 9.0 nic (mg/L) acute TVS 0.019 0.005 10	### A Provided For Specific Chronic Chronic TVS 0.75 250 0.011 0.05 0.0074*	Zinc listings in Segment 21. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	TVS #letals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS	TVS chronic 0.02 TVS TVS TVS SUS 1000 TVS TVSMS 0.01 150 TVS 1000 TVS
COUCBL22 Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a the facilities lis and reservoirs *Classification Pasture Tarn *Phosphorus(Reservoir in the foot the months October. Addit standards add Dillon Reservo ir standards addouble of the months of the month	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* odification(s): ic) = hybrid ie of 12/31/2024 (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes arger than 25 acres surface area. i: DUWS Applies only to Goose chronic) = 0.0074 mg/l for Dillon he top 15 meters of the water column sof July, August, September & ional total phosphorus or Chla peted for this segment do not apply to bir. bir. ohionic) = applies only above the at 33.5(4), applies only to lakes and per than 25 acres surface area. te) = See 33.5(3) for details.	Dutary to the Blue River above D Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorga Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	illon Reservoir, excel d Biological DM CL,CLL acute 6.5 - 9.0 nic (mg/L) acute TVS 0.019 0.005 10 -	mwat CL,CLL chronic 6.0 7.0 0 8* 126 chronic TVS 0.75 250 0.011 0.05 0.0074*	Zinc listings in Segment 21. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium Silver	TVS #detals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS 50 TVS	TVS chronic 0.02 TVS TVS TVS STVS US 1000 TVS TVSWS 0.01 150 TVS 100 TVS
COUCBL22 Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a the facilities lis and reservoirs *Classification Pasture Tarn *Phosphorus(c) Reservoir in the months October. Addit standards add Dillon Reservo *Phosphorus(c) facilities listed reservoirs larg *Uranium(acur	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS* odification(s): ic) = hybrid ie of 12/31/2024 (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes a larger than 25 acres surface area.: DUWS Applies only to Goose chronic) = 0.0074 mg/l for Dillon is of July, August, September & chronic) and total phosphorus or Chla in the properties of the water column is of July, August, September & chronic) applies only above the at 33.5(4), applies only to lakes and ger than 25 acres surface area.	Dutary to the Blue River above D Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorga Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	illon Reservoir, excel d Biological DM CL,CLL acute 6.5 - 9.0 nic (mg/L) acute TVS 0.019 0.005 10	### A Provided For Specific Chronic Chronic TVS 0.75 250 0.011 0.05 0.0074*	Zinc listings in Segment 21. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	TVS #letals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS	TVS chronic 0.02 TVS TVS TVS SUS 1000 TVS TVSMS 0.01 150 TVS 1000 TVS

All metals are dissolved unless otherwise noted. T = total recoverable

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

COUCBL23	Classifications	Physical and Bio	logical			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
		chlorophyll a (ug/L)		8*	Chromium III(T)	50	
	(ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
and reservoirs	s larger than 25 acres surface area. chronic) = applies only above the				Copper	TVS	TVS
facilities listed	at 33.5(4), applies only to lakes and	Inorganic (mg/L)		Iron		WS
	ger than 25 acres surface area. te) = See 33.5(3) for details.		acute	chronic	Iron(T)		1000
,	onic) = See 33.5(3) for details.	Ammonia	TVS	TVS	Lead	TVS	TVS
*Temperature	, , ,	Boron		0.75	Lead(T)	50	
DM and MWA Green Mounta	T=CL/CLL from 1/1-3/31	Chloride		250	Manganese	TVS	TVS/WS
DM=22.4 and	MWAT=16.6 from 4/1-12/31	Chlorine	0.019	0.011	Mercury(T)		0.01
All others DM and MWA	T=CL/CLL from 4/1-12/31	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

4 All tributerin	on to the Carle Divers including all was	Nameda voithin the Care Barre E	aniaa Naatanal Hali	C==== \M/il=l=	A		
COUCEA01	es to the Eagle River, including all wer Classifications	Physical and	,	Cross wilde		Metals (ug/L)	
Designation	Agriculture	,,,,,,,	DM	MWAT	-	acute	chronic
OW*	Ag 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
Qualifiers:	1	D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
		chlorophyll a (mg/m²)		150	Chromium III(T)	50	
	Consistent with the provisions of 04 C.R.S. the OW designation shall	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
not apply with	respect to the Homestake Water	,			Copper	TVS	TVS
Project of the Springs.	Cities of Aurora and Colorado	Inorgani	c (mg/L)		Iron		WS
	te) = See 33.5(3) for details.	. 0	acute	chronic	Iron(T)		1000
*Uranium(chro	onic) = See 33.5(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/TVS(sc)
2. Mainstem o	f the Eagle River from the source to a	above the compressor house bride	ge at Belden (39.526	879, -106.3	94950).		
COUCEA02	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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
Temporary M	odification(s):	chlorophyll a (mg/m²)		150*	Chromium III(T)	50	
Arsenic(chroni	ic) = hybrid	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
Expiration Dat	e of 12/31/2024				Copper	TVS	TVS
*chlorophyll a	(mg/m²)(chronic) = applies only	Inorgani	c (mg/L)		Iron		WS
	lities listed at 33.5(4). chronic) = applies only above the		acute	chronic	Iron(T)		1000
I^Phoenhorue/					1.		T\ (0
*Phosphorus(of facilities listed		Ammonia	TVS	TVS	Lead	TVS	TVS
facilities listed *Uranium(acut	at 33.5(4). te) = See 33.5(3) for details.	Ammonia Boron	TVS 	TVS 0.75	Lead Lead(T)	50	
facilities listed *Uranium(acut	at 33.5(4).	Boron Chloride					TVS TVS/WS
facilities listed *Uranium(acut	at 33.5(4). te) = See 33.5(3) for details.	Boron		0.75	Lead(T) Manganese Mercury(T)	50	TVS/WS 0.01
facilities listed *Uranium(acut	at 33.5(4). te) = See 33.5(3) for details.	Boron Chloride		0.75 250	Lead(T) Manganese Mercury(T) Molybdenum(T)	50 TVS 	TVS/WS 0.01 150
facilities listed *Uranium(acut	at 33.5(4). te) = See 33.5(3) for details.	Boron Chloride Chlorine	 0.019	0.75 250 0.011	Lead(T) Manganese Mercury(T)	50 TVS 	TVS/WS 0.01
facilities listed *Uranium(acut	at 33.5(4). te) = See 33.5(3) for details.	Boron Chloride Chlorine Cyanide	 0.019 0.005	0.75 250 0.011	Lead(T) Manganese Mercury(T) Molybdenum(T)	50 TVS 	TVS/WS 0.01 150
facilities listed *Uranium(acut	at 33.5(4). te) = See 33.5(3) for details.	Boron Chloride Chlorine Cyanide Nitrate	0.019 0.005	0.75 250 0.011 	Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	50 TVS TVS	TVS/WS 0.01 150 TVS
facilities listed *Uranium(acut	at 33.5(4). te) = See 33.5(3) for details.	Boron Chloride Chlorine Cyanide Nitrate Nitrite	0.019 0.005 10	0.75 250 0.011 0.05	Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	50 TVS TVS	TVS/WS 0.01 150 TVS 100
facilities listed *Uranium(acut	at 33.5(4). te) = See 33.5(3) for details.	Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	0.019 0.005 10	0.75 250 0.011 0.05 0.11*	Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	50 TVS TVS TVS	TVS/WS 0.01 150 TVS 100 TVS

t = total tr = trout sc = sculpin D.O. = dissolved oxygen
DM = daily maximum

3 All tributarie	es to the Eagle River, including wetla	ands from the source to above the	compressor house h	ridge at Bel	den (39 526879 -106 394	950) except for the	specific listings in
Segments 1 ar	nd 4.			nago at Boi			- opcome neurige m
	Classifications	Physical and E				Metals (ug/L)	
	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
0 115	Water Supply	D.O. (mg/L)		6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		рН	6.5 - 9.0		Chromium III		TVS
Temporary Mo	odification(s):	chlorophyll a (mg/m²)		150	Chromium III(T)	50	
Arsenic(chroni	ic) = hybrid	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
Expiration Date	e of 12/31/2024				Copper	TVS	TVS
*I Iranium/acut	te) = See 33.5(3) for details.	Inorgani	c (mg/L)		Iron		WS
· ·	onic) = See 33.5(3) for details.		acute	chronic	Iron(T)		1000
Oranium(ome	offic) = See SS.S(S) 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*
		Guinas		0.002	Zinc	TVS	TVS/TVS(sc)
4. Mainstem o	f Homestake Creek from the conflue	Lence of the East Fork to the conflue	nce with the Eagle F	River.	25		
COUCEA04	Classifications	Physical and E				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)					
Qualifiers:		D.O. (1119/L)		6.0	Cadmium	TVS	TVS
		D.O. (mg/L) D.O. (spawning)		6.0 7.0	Cadmium Cadmium(T)	TVS 5.0	TVS
Other:		D.O. (spawning)		7.0	Cadmium(T)		
Other:		D.O. (spawning) pH		7.0	Cadmium(T) Chromium III	5.0	TVS
	te) = See 33.5(3) for details.	D.O. (spawning) pH chlorophyll a (mg/m²)	6.5 - 9.0	7.0 150	Cadmium(T) Chromium III Chromium III(T)	5.0 50	 TVS
*Uranium(acut	te) = See 33.5(3) for details. onic) = See 33.5(3) for details.	D.O. (spawning) pH	6.5 - 9.0 	7.0	Cadmium(T) Chromium III Chromium III(T) Chromium VI	5.0 50 TVS	TVS TVS
*Uranium(acut	, , ,	D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	6.5 - 9.0 	7.0 150	Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	5.0 50	TVS TVS TVS
*Uranium(acut	, , ,	D.O. (spawning) pH chlorophyll a (mg/m²)	6.5 - 9.0 c (mg/L)	7.0 150 126	Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron	5.0 50 TVS TVS	TVS TVS TVS WS
*Uranium(acut	, , ,	D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani	6.5 - 9.0 c (mg/L)	7.0 150 126 chronic	Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T)	5.0 50 TVS TVS	TVS TVS TVS WS 1000
*Uranium(acut	, , ,	D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorganic	 6.5 - 9.0 c (mg/L) acute TVS	7.0 150 126 chronic TVS	Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead	5.0 50 TVS TVS TVS	TVS TVS TVS WS
*Uranium(acut	, , ,	D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorganic Ammonia Boron	6.5 - 9.0 c (mg/L) acute TVS	7.0 150 126 chronic TVS 0.75	Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T)	5.0 50 TVS TVS TVS 50	TVS TVS TVS WS 1000 TVS
*Uranium(acut	, , ,	D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron Chloride	 6.5 - 9.0 c (mg/L) acute TVS 	7.0 150 126 chronic TVS 0.75 250	Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	5.0 50 TVS TVS TVS 50 TVS 50 TVS	TVS
*Uranium(acut	, , ,	D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine	6.5 - 9.0 c (mg/L) acute TVS 0.019	7.0 150 126 chronic TVS 0.75 250 0.011	Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	5.0 50 TVS TVS TVS 50 TVS	TVS TVS TVS WS 1000 TVS TVS WS
*Uranium(acut	, , ,	D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide	6.5 - 9.0 c (mg/L) acute TVS 0.019 0.005	7.0 150 126 chronic TVS 0.75 250 0.011	Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	5.0 50 TVS TVS TVS 50 TVS	TVS TVS TVS WS 1000 TVS TVS WS 0.01
*Uranium(acut	, , ,	D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide Nitrate	6.5 - 9.0 c (mg/L) acute TVS 0.019 0.005 10	7.0 150 126 chronic TVS 0.75 250 0.011	Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	5.0 50 TVS TVS TVS 50 TVS 50 TVS TVS	TVS TVS TVS WS 1000 TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS
*Uranium(acut	, , ,	D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgania Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	6.5 - 9.0 c (mg/L) acute TVS 0.019 0.005	7.0 150 126 chronic TVS 0.75 250 0.011 0.05	Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	5.0 50 TVS TVS TVS 50 TVS 50 TVS TVS	TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS
*Uranium(acut	, , ,	D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	6.5 - 9.0 c (mg/L) acute TVS 0.019 0.005 10	7.0 150 126 chronic TVS 0.75 250 0.011 0.05 0.11	Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	5.0 50 TVS TVS TVS 50 TVS 50 TVS TVS TVS	TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 1000 TVS
*Uranium(acut	, , ,	D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	6.5 - 9.0 c (mg/L) acute TVS 0.019 0.005 10	7.0 150 126 chronic TVS 0.75 250 0.011 0.05	Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium Silver	5.0 50 TVS TVS TVS 50 TVS 50 TVS TVS TVS TVS TVS TVS	TVS
*Uranium(acut	, , ,	D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	6.5 - 9.0 c (mg/L) acute TVS 0.019 0.005 10	7.0 150 126 chronic TVS 0.75 250 0.011 0.05 0.11	Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	5.0 50 TVS TVS TVS 50 TVS 50 TVS TVS TVS	TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 1000 TVS

All metals are dissolved unless otherwise noted.

T = total recoverable

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

Road (39.5549	Classifications	Dhusiasi and	Piological			Motale (/l \	
		Physical and I		1414/AT	ľ	Metals (ug/L)	-11-
Designation	Agriculture	T 4 00	DM	MWAT		acute	chronic
Reviewable*	Aq Life Cold 1 Recreation E	Temperature °C	CS-I	CS-I	Arsenic	340	
	Water Supply	DO (#)	acute	chronic	Arsenic(T)		0.02
Qualifiers:	water Suppry	D.O. (mg/L)		6.0	Cadmium	TVS	SSE*
audilliers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
Designation	0/20/00 Pagalina daga nat anniv	chlorophyll a (mg/m²)			Chromium III(T)	50	
-	9/30/00 Baseline does not apply ronic) = (1.101672-	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
ln(hardness)*	(0.041838)])* e^(0.7998 [In				Copper		SSE*
hardness)]-3. Copper(acute	1725) e) = 0.96*e^0.9801[ln(hardness)] –	Inorgani	c (mg/L)		Copper	SSE*	
1.1073 Conner(ebrer	sia) = 0.06*a00.5907[lp/bardpage]]		acute	chronic	Iron		WS
0.0053	nic) = 0.96*e^0.5897[ln(hardness)] –	Ammonia	TVS	TVS	Iron(T)		1000
Uranium(acut	te) = See 33.5(3) for details.	Boron		0.75	Lead	TVS	TVS
Uranium(chro	onic) = See 33.5(3) for details.	Chloride		250	Lead(T)	50	
. ,	0.978*e^0.8537[In(hardness)]+2.1302	Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
Zinc(chronic)).986*e^0.853	= 7[ln(hardness)]+1.9593	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		SSF*
	of the Eagle River from a point immedi	ately above the Highway 24 Bridg	e near Tigiwon Roa	d (39.55493	Zinc Zinc 6, -106.401691) to a point	SSE*	SSE* the confluenc
vith Martin Cr		ately above the Highway 24 Bridg		d (39.55493	Zinc 6, -106.401691) to a point	SSE*	
vith Martin Cro	eek.	1		d (39.55493 MWAT	Zinc 6, -106.401691) to a point	SSE*	the confluence
vith Martin Cr	eek. Classifications	1	Biological	•	Zinc 6, -106.401691) to a point	SSE* immediately above the state (ug/L)	the confluence
vith Martin Cro COUCEA05B Designation	cek. Classifications Agriculture	Physical and I	Biological DM	MWAT	Zinc 6, -106.401691) to a point	SSE* immediately above f fletals (ug/L) acute	the confluence
vith Martin Cro COUCEA05B Designation	eek. Classifications Agriculture Aq Life Cold 1	Physical and I	Biological DM CS-I	MWAT CS-I	Zinc 6, -106.401691) to a point Arsenic	SSE* immediately above to Metals (ug/L) acute 340	chronic
vith Martin Cro COUCEA05B Designation Reviewable*	eek. Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and I	Biological DM CS-I acute	MWAT CS-I chronic	Zinc 16, -106.401691) to a point Arsenic Arsenic(T)	SSE* immediately above to fletals (ug/L) acute 340	chronic
vith Martin Cro COUCEA05B Designation	eek. Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and I Temperature °C D.O. (mg/L)	Biological DM CS-I acute	MWAT CS-I chronic 6.0	Zinc 6, -106.401691) to a point Arsenic Arsenic(T) Cadmium	SSE* immediately above in fetals (ug/L) acute 340 TVS	chronic 0.02 SSE*
vith Martin Cro COUCEA05B Designation Reviewable* Qualifiers:	eek. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning)	Biological DM CS-I acute	MWAT CS-I chronic 6.0 7.0	Zinc 6, -106.401691) to a point Arsenic Arsenic(T) Cadmium Cadmium(T)	SSE* immediately above Metals (ug/L) acute 340 TVS 5.0	chronic 0.02 SSE*
vith Martin Cro COUCEA05B Designation Reviewable* Qualifiers: Other:	eek. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH	Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0	Zinc 6, -106.401691) to a point Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III	SSE* immediately above in the second	chronic 0.02 SSE*
vith Martin Cro COUCEA05B Designation Reviewable* Qualifiers: Other: Temporary Marsenic(chronic	Agriculture Aq Life Cold 1 Recreation E Water Supply	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0	Zinc 6, -106.401691) to a point Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI	SSE* immediately above in Metals (ug/L) acute 340 TVS 5.0 50	chronic 0.02 SSE*
vith Martin Cro COUCEA05B Designation Reviewable* Qualifiers: Designation Available of the country of the coun	Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0	Zinc 6, -106.401691) to a point Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	SSE* immediately above in acute 340 TVS 5.0 50 TVS	chronic 0.02 SSE* TVS
vith Martin Cro COUCEA05B Designation Reviewable* Qualifiers: Comporary Marsenic(chronic expiration Dat Designation:	Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 9/30/00 Baseline does not apply	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0	Zinc 6, -106.401691) to a point Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI	SSE* immediately above in the second	chronic 0.02 SSE* TVS TVS SSE*
with Martin Cro COUCEA05B Designation Reviewable* Qualifiers: Other: Temporary Marsenic(chronic Expiration Date Designation: Cadmium(chronic	Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	Biological DM CS-I acute 6.5 - 9.0 c (mg/L)	MWAT CS-I chronic 6.0 7.0 126	Zinc 6, -106.401691) to a point Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Copper	SSE* immediately above immedia	chronic 0.02 SSE* TVS TVS SSE* WS
with Martin Cro COUCEA05B Designation Reviewable* Coualifiers: Comporary Marsenic(chronic expiration Date expiration Date expiration Cadmium(chronic (Cadmium(chronic expirations))-3.	Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 9/30/00 Baseline does not apply onic) = (1.101672- (0.041838)])* e^(0.7998 [in	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia	Biological DM CS-I acute 6.5 - 9.0 c (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 126 chronic	Zinc 6, -106.401691) to a point Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Copper Iron Iron(T)	SSE* immediately above in imme	chronic 0.02 SSE* TVS TVS SSE* WS
couceant Martin Crocouceant Mart	ceek. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply codification(s): ic) = hybrid e of 12/31/2024 9/30/00 Baseline does not apply conic) = (1.101672- (0.041838)])* e^(0.7998 [In 1725) c) = 0.96*e^0.9801[In(hardness)]-	Physical and I	Biological DM CS-I acute 6.5 - 9.0 c (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 126 chronic TVS 0.75	Zinc 6, -106.401691) to a point Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Copper Iron Iron(T) Lead	SSE* immediately above in imme	chronic chronic 0.02 SSE* TVS TVS SSE* WS
couceant Martin Crocouceant Martin Crocouceant Martin Crocouceant Martin Crocouceant Martin Crocouceant Martin Cadmium (chron Cadmium (chron (chardness)* hardness)*3. Copper(acute.5865 Copper(chror	Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 9/30/00 Baseline does not apply onic) = (1.101672- (0.041838)])* e^(0.7998 [in	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron Chloride	Biological DM CS-I acute 6.5 - 9.0 c (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 126 chronic TVS 0.75 250	Zinc 6, -106.401691) to a point Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Copper Iron Iron(T) Lead Lead(T)	SSE* immediately above in imme	chronic chronic 0.02 SSE* TVS TVS SSE* WS 1000 TVS
country Martin Cro couceA05B resignation reviewable* remporary Marsenic(chronic xpiration Date Designation: Cadmium(chronic (chronic xpiration)) Cadmium(chronic (chronic xpiration)) Cadmium(chronic xpiration)	ceek. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply codification(s): ic) = hybrid e of 12/31/2024 9/30/00 Baseline does not apply conic) = (1.101672- (0.041838)])* e^(0.7998 [In 1725) c) = 0.96*e^0.9801[In(hardness)]-	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine	Biological DM CS-I acute 6.5 - 9.0 c (mg/L) acute TVS 0.019	MWAT CS-I chronic 6.0 7.0 126 chronic TVS 0.75 250 0.011	Zinc 6, -106.401691) to a point Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Copper Iron Iron(T) Lead Lead(T) Manganese	SSE* immediately above immediately acute 3440 TVS 5.0 50 TVS SSE* TVS 50 TVS	chronic chronic 3.02 SSE* TVS TVS SSE* WS 1000 TVS TVSWS
course of the co	ceek. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply codification(s): (c) = hybrid e of 12/31/2024 9/30/00 Baseline does not apply conic) = (1.101672- (0.041838)])* e^(0.7998 [In 1725) e) = 0.96*e^0.9801[In(hardness)]- nic) = 0.96*e^0.5897[In(hardness)]-	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide	Biological DM CS-I acute 6.5 - 9.0 c (mg/L) acute TVS 0.019 0.005	MWAT CS-I chronic 6.0 7.0 126 chronic TVS 0.75 250 0.011	Zinc 6, -106.401691) to a point Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	SSE* immediately above immediately above immediately above immediately above immediately above immediately above immediately acute 3440 TVS 5.0 50 TVS SSE* TVS 50 TVS 50 TVS	the confluence chronic 0.02 SSE* TVS TVS SSE* UND TVS TVS TVS TVS TVS TVS TVS TV
country of the countr	Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 9/30/00 Baseline does not apply onic) = (1.101672- (0.041838)])* e^(0.7998 [In 1725) e) = 0.96*e^0.9801[In(hardness)]- ic) = 0.96*e^0.5897[In(hardness)]- ic) = See 33.5(3) for details.	Physical and I	Biological DM CS-I acute 6.5 - 9.0 c (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 126 chronic TVS 0.75 250 0.011	Zinc 6, -106.401691) to a point Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	SSE* immediately above in immediately acute in imme	the confluence chronic 0.02 SSE* TVS SSE* WS 1000 TVS TVS/WS 0.01 150
country of the countr	ceek. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply codification(s): (c) = hybrid e of 12/31/2024 9/30/00 Baseline does not apply conic) = (1.101672- (0.041838)])* e^(0.7998 [In 1725) (c) = 0.96*e^0.9801[In(hardness)]- cic) = 0.96*e^0.5897[In(hardness)]- cic) = See 33.5(3) for details. conic) = See 33.5(3) for details.	Physical and I	Biological DM CS-I acute 6.5 - 9.0 c (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 126 chronic TVS 0.75 250 0.011 0.05	Zinc 6, -106.401691) to a point Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	SSE* immediately above in immediately acute in imme	the confluence chronic 0.02 SSE* TVS SSE* WS 1000 TVS TVSWS 0.01 150 TVS
country Martin Cro couceans co	Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 9/30/00 Baseline does not apply onic) = (1.101672- (0.041838)])* e^(0.7998 [In 1725) e) = 0.96*e^0.9801[In(hardness)]- ic) = 0.96*e^0.5897[In(hardness)]- ic) = See 33.5(3) for details.	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	Biological DM CS-I acute 6.5 - 9.0 c (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 126 chronic TVS 0.75 250 0.011 0.05	Zinc 6, -106.401691) to a point Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III(T) Chromium VI Copper Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	SSE* immediately above in imme	TVS/WS 0.01 150 TVS 1000
rith Martin Cro COUCEA05B resignation reviewable* respective ther: remporary M. resenic(chronic price the county of the cou	Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 9/30/00 Baseline does not apply onic) = (1.101672- (0.041838)])* e^(0.7998 [In 1725) e) = 0.96*e^0.9801[In(hardness)]- ic) = 0.96*e^0.5897[In(hardness)]- ic) = See 33.5(3) for details. onic) = See 33.5(3) for details. i7[In(hardness)]+2.1302 from 1/1 - i7[In(hardness)]+1.4189 from 5/1 -	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	Biological DM CS-I acute 6.5 - 9.0 c (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 126 chronic TVS 0.75 250 0.011 0.05 WS	Zinc 6, -106.401691) to a point Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	SSE* immediately above in imme	TVSWS 0.01 150 TVS 100 TVS 100 TVS 100 TVS 100 TVS 100 TVS 100 TVS
inth Martin Cro COUCEA05B lesignation leviewable* couceant of the couceant o	Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 9/30/00 Baseline does not apply onic) = (1.101672- (0.041838)])* e^(0.7998 [In 1725) e) = 0.96*e^0.9801[In(hardness)]- ic) = 0.96*e^0.5897[In(hardness)]- ic) = See 33.5(3) for details. onic) = See 33.5(3) for details. i7[In(hardness)]+2.1302 from 1/1 - i7[In(hardness)]+1.4189 from 5/1 -	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	Biological DM CS-I acute 6.5 - 9.0 c (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 126 chronic TVS 0.75 250 0.011 0.05	Zinc 6, -106.401691) to a point Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium Silver	SSE* immediately above immedia	TVSWS 0.01 150 TVS
country Martin Cro couceA05B designation deviewable* d	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 9/30/00 Baseline does not apply ronic) = (1.101672- (0.041838)])* e^(0.7998 [In 1725) e) = 0.96*e^0.9801[In(hardness)]- ic) = 0.96*e^0.5897[In(hardness)]- ic) = See 33.5(3) for details. ic) [In(hardness)]+2.1302 from 1/1 - ic7[In(hardness)]+1.4189 from 5/1 -	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	Biological DM CS-I acute 6.5 - 9.0 c (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 126 chronic TVS 0.75 250 0.011 0.05 WS	Zinc 6, -106.401691) to a point Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	SSE* immediately above in imme	TVSWS 0.01 150 TVS 100 TVS 100 TVS 100 TVS 100 TVS 100 TVS 100 TVS

All metals are dissolved unless otherwise noted.

T = total recoverable

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

		Eagle	River Basii	า			
5c. Mainstem	of the Eagle River from a point immedi	ately above Martin Creek to a po	int immediately abov	e the conflu	ence with Gore Creek.		
COUCEA05C	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	SSE*
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
Temporary M	odification(s):	chlorophyll a (mg/m²)			Chromium III(T)	50	
Arsenic(chron	. ,	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
•	e of 12/31/2024				Copper		SSE*
		Inorgani	ic (mg/L)		Copper	SSE*	
•	9/30/00 Baseline does not apply ronic) = (1.101672-		acute	chronic	Iron		WS
[In(hardness)*	(0.041838)])* e^(0.7998 [In	Ammonia	TVS	TVS	Iron(T)		1000
(hardness)]-3. 'Copper(acute	1/25) e) = 0.96*e^0.9801[ln(hardness)]-	Boron		0.75	Lead	TVS	TVS
1.5865		Chloride		250	Lead(T)	50	
"Copper(cnror 0.4845	nic) = 0.96*e^0.5897[ln(hardness)]-	Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
*Uranium(acu	te) = See 33.5(3) for details.	Cyanide	0.005		Mercury(T)		0.01
'Uranium(chro	onic) = See 33.5(3) for details.	Nitrate	10		Molybdenum(T)		150
, ,	0.978*e^0.8537[In(hardness)]+1.4189	Nitrite		0.05	Nickel	TVS	TVS
*Zinc(chronic) 0.986*e^0.853	= 7[ln(hardness)]+1.2481	Phosphorus			Nickel(T)		100
		Sulfate		WS	Selenium	TVS	TVS
		Sulfide		0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc		SSE*
					Zinc	SSE*	
	es to the Eagle River, including all wetla ek, except for the specific listings in Se		house bridge at Bel	den (39.526	8879, -106.394950) to a po	oint immediately below	v the confluence
COUCEA06	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	T\/S	TVS

COUCEA06	Classifications	Physical and Biolo	gical			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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
Temporary M	odification(s):	chlorophyll a (mg/m²)		150	Chromium III(T)	50	
Arsenic(chroni	· /	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
Expiration Dat	re of 12/31/2024				Copper	TVS	TVS
*1	t-) - C 22 F(2) for details	Inorganic (mg	g/L)		Iron		ws
,	te) = See 33.5(3) for details. onic) = See 33.5(3) for details.		acute	chronic	Iron(T)		1000
Oranium(Gire	offic) – See 33.3(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/TVS(sc)

All metals are dissolved unless otherwise noted. T = total recoverable

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

		low the Minturn Water Facility (39.56	65419, -106.41703	except for	or the specific listings in	Segment 1.	
	Classifications	Physical and B		2), 0,000): 10		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
Qualifiers:	<u> </u>	D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
		chlorophyll a (mg/m²)		150	Chromium III(T)	50	
*Uranium(acut	te) = See 33.5(3) for details.	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
'Uranium(chro	onic) = See 33.5(3) for details.	,			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
		Phosphorus		0.11	Selenium	TVS	TVS
		Sulfate		WS	Silver	TVS	TVS(tr)
		Sulfide		0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)
7b. Mainstem	of Cross Creek from below the Mintur	n Water Facility (39.565419, -106.4	17032) to the confl	uence with t	the Eagle River.		
COUCEA07B	Classifications	Physical and B	iological			Motolo (ug/L)	
Decianotion						Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
	Agriculture Aq Life Cold 1	Temperature °C		MWAT CS-I	Arsenic		chronic
	- ~	Temperature °C	DM		Arsenic Arsenic(T)	acute	
	Aq Life Cold 1	Temperature °C D.O. (mg/L)	DM CS-I	CS-I		acute 340	
Reviewable*	Aq Life Cold 1 Recreation E	·	DM CS-I acute	CS-I chronic	Arsenic(T)	acute 340 	0.02
Designation Reviewable* Qualifiers: Other:	Aq Life Cold 1 Recreation E	D.O. (mg/L)	DM CS-I acute	CS-I chronic 6.0	Arsenic(T) Cadmium	acute 340 TVS	0.02
Reviewable* Qualifiers: Other:	Aq Life Cold 1 Recreation E Water Supply	D.O. (mg/L) D.O. (spawning)	DM CS-I acute 	CS-I chronic 6.0 7.0	Arsenic(T) Cadmium Cadmium(T)	acute 340 TVS 5.0	0.02 SSE*
Reviewable* Qualifiers: Other:	Aq Life Cold 1 Recreation E Water Supply 9/30/00 Baseline does not apply	D.O. (mg/L) D.O. (spawning) pH	DM CS-I acute 6.5 - 9.0	CS-I chronic 6.0 7.0	Arsenic(T) Cadmium Cadmium(T) Chromium III	340 TVS 5.0	 0.02 SSE* TVS
Reviewable* Qualifiers: Other: Designation: 9 Cadmium(chr	Aq Life Cold 1 Recreation E Water Supply	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	DM CS-I acute 6.5 - 9.0	CS-I chronic 6.0 7.0 150	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T)	acute 340 TVS 5.0 50	 0.02 SSE* TVS
Reviewable* Qualifiers: Other: (Designation: 9 (Cadmium(chr In(hardness)* (hardness))-3.	Aq Life Cold 1 Recreation E Water Supply 9/30/00 Baseline does not apply ronic) = (1.101672- (0.041838)])* e^(0.7998 [In	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	DM CS-I acute 6.5 - 9.0	CS-I chronic 6.0 7.0 150	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI	acute 340 TVS 5.0 50 TVS	 0.02 SSE* TVS
Qualifiers: Other: Designation: 9 Cadmium(chr In(hardness)*(hardness)]-3. Copper(acute 1.5865	Aq Life Cold 1 Recreation E Water Supply 9/30/00 Baseline does not apply ronic) = (1.101672- (0.041838)])* e^(0.7998 [in 1725) e) = 0.96*e^0.9801[in(hardness)]-	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	DM CS-I acute 6.5 - 9.0	CS-I chronic 6.0 7.0 150	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	acute 340 TVS 5.0 50 TVS	0.02 SSE* TVS TVS SSE*
Qualifiers: Dther: Designation: (Cadmium(chr In(hardness))-3. (Copper(acute 1.5865) Copper(chron	Aq Life Cold 1 Recreation E Water Supply 9/30/00 Baseline does not apply ronic) = (1.101672- (0.041838)])* e^(0.7998 [In	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	DM CS-I acute 6.5 - 9.0 (mg/L)	CS-I chronic 6.0 7.0 150 126	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Copper	acute 340 TVS 5.0 50 TVS SSE*	0.02 SSE* TVS TVS SSE*
Qualifiers: Dther: Designation: (Cadmium(chr In(hardness))-3. Copper(acute 1.5865 Copper(chron 0.4845	Aq Life Cold 1 Recreation E Water Supply 9/30/00 Baseline does not apply ronic) = (1.101672- (0.041838)])* e^(0.7998 [in 1725) e) = 0.96*e^0.9801[in(hardness)]-	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	DM CS-I acute 6.5 - 9.0 (mg/L)	CS-I chronic 6.0 7.0 150 126	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Chromium VI Copper Copper	acute 340 TVS 5.0 50 TVS SSE*	0.02 SSE* TVS TVS SSE* WS
Qualifiers: Designation: (Cadmium(chr In(hardness)*(hardness)]-3.: Copper(acute 1.5865 Copper(chron 0.4845 Uranium(acut Uranium(chro	Aq Life Cold 1 Recreation E Water Supply 9/30/00 Baseline does not apply ronic) = (1.101672- (0.041838)])* e^(0.7998 [In 1725) e) = 0.96*e^0.9801[In(hardness)]- nic) = 0.96*e^0.5897[In(hardness)]- te) = See 33.5(3) for details. onic) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorganic	DM CS-I acute 6.5 - 9.0 (mg/L) acute TVS	CS-I chronic 6.0 7.0 150 126 chronic TVS	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Chromium VI Copper Copper Iron Iron(T)	acute 340 TVS 5.0 50 TVS SSE*	0.02 SSE* TVS TVS SSE* WS 1000
Qualifiers: Designation: 9 Cadmium(chr In(hardness)*(hardness)*, Copper(acute 1.5865 Copper(chron 0.4845 Uranium(chro 'Zinc(acute) =	Aq Life Cold 1 Recreation E Water Supply 9/30/00 Baseline does not apply ronic) = (1.101672- (0.041838)])* e^(0.7998 [In 1725) e) = 0.96*e^0.9801[In(hardness)]- nic) = 0.96*e^0.5897[In(hardness)]- te) = See 33.5(3) for details. pric) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorganic Ammonia Boron	DM CS-I acute 6.5 - 9.0 (mg/L) acute TVS	CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Copper Iron Iron(T) Lead	acute 340 TVS 5.0 50 TVS SSE* TVS	0.02 SSE* TVS TVS SSE* WS 1000 TVS
Qualifiers: Designation: 9 Cadmium(chr In(hardness)*(hardness)]-3. Copper(acute 1.5865 Copper(chron 2.4845 Uranium(acut Uranium(chro 2.2inc(acute) = 0.978*e^0.853	Aq Life Cold 1 Recreation E Water Supply 9/30/00 Baseline does not apply ronic) = (1.101672-(0.041838)])* e^(0.7998 [In 1725) e) = 0.96*e^0.9801[In(hardness)]-hic) = 0.96*e^0.5897[In(hardness)]-te) = See 33.5(3) for details. enic) = See 33.5(3) for details. enic) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorganic Ammonia Boron Chloride	DM CS-I acute 6.5 - 9.0 (mg/L) acute TVS 	CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Copper Iron Iron(T) Lead Lead(T)	acute 340 TVS 5.0 50 TVS SSE* TVS 50	0.02 SSE* TVS TVS SSE* WS 1000 TVS
Qualifiers: Designation: S Cadmium(chr In(hardness)*(hardness)]-3.: Copper(acute .5865 Copper(chron .4845 Uranium(acut Uranium(chro Zinc(acute) = 0.978*e^0.853 //30 .978*e^0.853	Aq Life Cold 1 Recreation E Water Supply 9/30/00 Baseline does not apply ronic) = (1.101672- (0.041838)])* e^(0.7998 [In 1725) e) = 0.96*e^0.9801[In(hardness)]- nic) = 0.96*e^0.5897[In(hardness)]- te) = See 33.5(3) for details. pric) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine	DM CS-I acute 6.5 - 9.0 (mg/L) acute TVS 0.019	CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Copper Iron Iron(T) Lead Lead(T) Manganese	acute 340 TVS 5.0 50 TVS SSE* TVS 50 TVS	0.02 SSE* TVS TVS SSE* WS 1000 TVS TVS/WS
Qualifiers: Other: Designation: 9 Cadmium(chr In(hardness)* hardness);-3. Copper(acute 1.5865 Copper(chron 0.4845 Uranium(chro Zinc(acute) = 9.978*e^0.853 1/30 1/378*e^0.853 1/31 Zinc(chronic)	Aq Life Cold 1 Recreation E Water Supply 9/30/00 Baseline does not apply conic) = (1.101672-(0.041838)])* e^(0.7998 [In 1725) e) = 0.96*e^0.9801[In(hardness)]-nic) = 0.96*e^0.5897[In(hardness)]-te) = See 33.5(3) for details. e) = See 33.5(3) for details. e) = [In(hardness)]+2.1302 from 1/1 - 1/7[In(hardness)]+1.4189 from 5/1 - 1/7[In(hardness)]+1/7[D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide	DM CS-I acute 6.5 - 9.0 (mg/L) acute TVS 0.019 0.005	CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	acute 340 TVS 5.0 50 TVS SSE* TVS 50 TVS TVS TVS TVS	0.02 SSE* TVS TVS SSE* WS 1000 TVS TVS/WS 0.01
Qualifiers: Designation: 9 Cadmium(chr In(hardness)*(hardness)]-3.: Copper(acute 1.5865 Copper(chron 1.4845 Uranium(acut Uranium(chro Zinc(acute) = 0.978*e^0.853 1/30 0.978*e^0.853 1/31 1/31 0.986*e^0.853 1/30 0.986*e^0.853 1/30	Aq Life Cold 1 Recreation E Water Supply 9/30/00 Baseline does not apply ronic) = (1.101672- (0.041838)])* e^(0.7998 [In 1725) e) = 0.96*e^0.9801[In(hardness)]- nic) = 0.96*e^0.5897[In(hardness)]- te) = See 33.5(3) for details. ronic) = See 33.5(3) for details. rolin(hardness)]+2.1302 from 1/1 - rolin(hardness)]+1.4189 from 5/1 - = 17[In(hardness)]+1.9593 from 1/1 -	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate	DM CS-I acute 6.5 - 9.0 (mg/L) acute TVS 0.019 0.005 10	CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	acute 340 TVS 5.0 50 TVS SSE* TVS 50 TVS TVS TVS TVS TVS	0.02 SSE* TVS TVS SSE* WS 1000 TVS TVS/WS 0.01 150
Reviewable* Qualifiers: Other: *Designation: \$ *Cadmium(chr In(hardness))*0. *Copper(acute 1.5865 *Copper(chron 0.4845 *Uranium(chrorizinc(acute) = 0.978*e^0.853 4/30 0.978*e^0.853 4/30 0.986*e^0.853	Aq Life Cold 1 Recreation E Water Supply 9/30/00 Baseline does not apply conic) = (1.101672-(0.041838)])* e^(0.7998 [In 1725) e) = 0.96*e^0.9801[In(hardness)]-nic) = 0.96*e^0.5897[In(hardness)]-te) = See 33.5(3) for details. e) = See 33.5(3) for details. e) = [In(hardness)]+2.1302 from 1/1 - 1/7[In(hardness)]+1.4189 from 5/1 - 1/7[In(hardness)]+1/7[D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	DM CS-I acute 6.5 - 9.0 (mg/L) acute TVS 0.019 0.005 10	CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011 0.05	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	acute 340 TVS 5.0 50 TVS TVS SSE* TVS 50 TVS TVS TVS	0.02 SSE* TVS TVS SSE* WS 1000 TVS TVS/WS 0.01 150 TVS
Qualifiers: Other: Designation: Cadmium(chr In(hardness))*(hardness))*(hardness))*(hardness))*(hardness))*(hardness))*(hardness))*(hardness))*(hardness))*(hardness))*(hardness)*(hardne	Aq Life Cold 1 Recreation E Water Supply 9/30/00 Baseline does not apply ronic) = (1.101672- (0.041838)])* e^(0.7998 [In 1725) e) = 0.96*e^0.9801[In(hardness)]- nic) = 0.96*e^0.5897[In(hardness)]- te) = See 33.5(3) for details. ronic) = See 33.5(3) for details. rolin(hardness)]+2.1302 from 1/1 - rolin(hardness)]+1.4189 from 5/1 - = 17[In(hardness)]+1.9593 from 1/1 -	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	DM CS-I acute 6.5 - 9.0 (mg/L) acute TVS 0.019 0.005 10	CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250 0.011 0.05 0.11	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	acute 340 TVS 5.0 50 TVS TVS 50 TVS TVS 50 TVS TVS 50 TVS TVS	0.02 SSE* TVS TVS SSE* WS 1000 TVS TVSWS 0.01 150 TVS 1000
Reviewable* Qualifiers: Other: *Designation: \$ *Cadmium(chr In(hardness))*0. *Copper(acute 1.5865 *Copper(chron 0.4845 *Uranium(chrorizinc(acute) = 0.978*e^0.853 4/30 0.978*e^0.853 4/30 0.986*e^0.853	Aq Life Cold 1 Recreation E Water Supply 9/30/00 Baseline does not apply ronic) = (1.101672- (0.041838)])* e^(0.7998 [In 1725) e) = 0.96*e^0.9801[In(hardness)]- nic) = 0.96*e^0.5897[In(hardness)]- te) = See 33.5(3) for details. ronic) = See 33.5(3) for details. rolin(hardness)]+2.1302 from 1/1 - rolin(hardness)]+1.4189 from 5/1 - = 17[In(hardness)]+1.9593 from 1/1 -	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	DM CS-I acute 6.5 - 9.0 (mg/L) acute TVS 0.019 0.005 10	CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011 0.05 0.11 WS	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	acute 340 TVS 5.0 50 TVS TVS 50 TVS TVS 50 TVS TVS TVS TVS	0.02 SSE* TVS TVS SSE* WS 1000 TVS TVS/WS 0.01 150 TVS 100 TVS
Qualifiers: Dther: *Designation: \$\{\text{Cadmium(chr} \) \{\text{Inc(hardness)}\{\text{1}}\}. *Copper(acute 1.5865 \) \{\text{Copper(chron 0.4845} \) \{\text{Uranium(acut} \) \{\text{Uranium(acut} \) \{\text{Uranium(acut} \) \{\text{Uranium(acut} \) \} \{\text{Uranium(acut} \) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Aq Life Cold 1 Recreation E Water Supply 9/30/00 Baseline does not apply ronic) = (1.101672- (0.041838)])* e^(0.7998 [In 1725) e) = 0.96*e^0.9801[In(hardness)]- nic) = 0.96*e^0.5897[In(hardness)]- te) = See 33.5(3) for details. ronic) = See 33.5(3) for details. rolin(hardness)]+2.1302 from 1/1 - rolin(hardness)]+1.4189 from 5/1 - = 17[In(hardness)]+1.9593 from 1/1 -	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	DM CS-I acute 6.5 - 9.0 (mg/L) acute TVS 0.019 0.005 10	CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011 0.05 0.11 WS	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium Silver	340 TVS 5.0 50 TVS SSE* TVS 50 TVS TVS TVS TVS TVS TVS	0.02 SSE* TVS TVS SSE* WS 1000 TVS TVS/WS 0.01 150 TVS 1000 TVS TVS TVS TVS TVS TVS

All metals are dissolved unless otherwise noted.

T = total recoverable

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

		Eagle F	kiver Basi	In			
8. Mainstem o	of Gore Creek from the confluence w	th Black Gore Creek to the confluence	e with the Eagle I	River.	•		
COUCEA08	Classifications	Physical and Bio	logical			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I*	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
Temporary M	odification(s):	chlorophyll a (mg/m²)		150*	Chromium III(T)	50	
Arsenic(chron	ic) = hybrid	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
Expiration Dat	te of 12/31/2024				Copper	TVS	TVS
*chlorophyll a	(mg/m²)(chronic) = applies only	Inorganic (mg/L)		Iron		WS
above the faci	ilities listed at 33.5(4).		acute	chronic	Iron(T)		1000
facilities listed	chronic) = applies only above the at 33.5(4).	Ammonia	TVS	TVS	Lead	TVS	TVS
	te) = See 33.5(3) for details.	Boron		0.75	Lead(T)	50	
,	onic) = See 33.5(3) for details.	Chloride		250	Manganese	TVS	TVS/WS
*Temperature MWAT= 14 fro		Chlorine	0.019	0.011	Mercury(T)		0.01
MWAT=CS-If	rom 7/1 - 9/30	Cyanide	0.005		Molybdenum(T)		150
	m 10/1 - 10/15 from 10/16 - 5/31	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/TVS(sc)
9a. Mainstem	of the Eagle River from above Gore	Creek to a point immediately below the	ne confluence wit	h Squaw Cre	eek.		
COUCEA09A	Classifications	Physical and Bio	logical			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I*	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:		рН	6.5 - 9.0		Chromium III		TVS
Temporary M	odification(s):	chlorophyll a (mg/m²)			Chromium III(T)	50	
Arsenic(chron	()	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
•	te of 12/31/2024				Copper	TVS	TVS
		Inorganic (mg/L)		Iron		WS
,	te) = See 33.5(3) for details. onic) = See 33.5(3) for details.		acute	chronic	Iron(T)		1000
*Temperature	, , , ,	Ammonia	TVS	TVS	Lead	TVS	TVS
MWAT=16 fro	m 6/1 - 6/30	Boron		0.75	Lead(T)	50	
	from 7/1 - 9/30 rm 10/1 - 10/15	Chloride		250	Manganese	TVS	TVS/WS
MWAT=11 fro	m 10/16 - 10/31	Chlorine	0.019	0.011	Mercury(T)		0.01
INIVAI =CO-IT	from 11/1 - 5/31	Cyanide	0.005		Molybdenum(T)		150
		Nitrate	10		Nickel	TVS	TVS
		Nitrite		0.05	Nickel(T)		100
		Phosphorus			Selenium	TVS	TVS
		•					
		Sulfate		WS	Silver	IVS	I V OILLI
		Sulfate Sulfide		WS 0.002	Silver Uranium	TVS varies*	TVS(tr) varies*
		Sulfate Sulfide		WS 0.002	Uranium Zinc	varies*	varies*

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

וווסט. ועומווואנפווו	of the Eagle River from a point im	mediately below the confluence with	Squaw Creek to a p	oint immedia	tely below the confluence	with Rube Creek.	
	B Classifications	Physical and			1	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:	<u>'</u>	D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
	A- 115 - 15 - 1 - 1	chlorophyll a (mg/m²)			Chromium III(T)	50	
Arsenic(chror	Modification(s):	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
,	ate of 12/31/2024	,			Copper	TVS	TVS
LAPITATION DA	ate of 12/31/2024	Inorgan	nic (mg/L)		Iron		WS
*Uranium(acu	ute) = See 33.5(3) for details.	organi	acute	chronic	Iron(T)		1000
,	ronic) = See 33.5(3) for details.	Ammonia	TVS	TVS	Lead	TVS	TVS
*Temperature DM=15 and M	e = MW AT=12 from 4/1 - 5/31	Boron		0.75	Lead(T)	50	
DM=CS-II and	d MWAT=CS-II from 6/1 - 9/30 MWAT=12 from 10/1 - 10/15	Chloride		250	Manganese	TVS	TVS/WS
	MWAT=12 from 10/1 - 10/13 MWAT=11 from 10/16 - 10/31	Chlorine	0.019	0.011	Mercury(T)		0.01
DM=CS-II and	d MWAT=CS-II from 11/1-3/31	Cyanide	0.005	0.011	Molybdenum(T)		150
		Nitrate	10		Nickel	TVS	TVS
		Nitrite		0.05			100
					Nickel(T) Selenium	TVS	TVS
		Phosphorus					
		Sulfate		WS	Silver	TVS	TVS(tr)
		Sulfide		0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
Oc Mainstern	of the Eagle River from a point im	mediately below the confluence with	Puha Creek to the c	onfluence wi	th the Colorado River		
		mediately below the confluence with Physical and		onfluence wi		Metals (ug/L)	
COUCEA09C	Classifications	mediately below the confluence with Physical and	Biological			Metals (ug/L)	chronic
COUCEA090 Designation	C Classifications Agriculture	Physical and	Biological DM	MWAT	ı	acute	chronic
COUCEA09C	Classifications		Biological DM CS-II	MWAT CS-II	Arsenic	acute 340	
COUCEA090 Designation	C Classifications Agriculture Aq Life Cold 1	Physical and Temperature °C	Biological DM	MWAT CS-II chronic	Arsenic Arsenic(T)	acute 340	0.02
COUCEA090 Designation	C Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C D.O. (mg/L)	Biological DM CS-II acute	MWAT CS-II chronic 6.0	Arsenic Arsenic(T) Cadmium	acute 340 TVS	0.02 TVS
COUCEA09C Designation Reviewable Qualifiers:	C Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C D.O. (mg/L) D.O. (spawning)	Biological DM CS-II acute	MWAT CS-II chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T)	acute 340 TVS 5.0	0.02 TVS
COUCEA09C Designation Reviewable Qualifiers: Other:	C Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH	Biological DM CS-II acute	MWAT CS-II chronic 6.0	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III	acute 340 TVS 5.0	 0.02 TVS TVS
COUCEA09C Designation Reviewable Qualifiers: Other: Temporary M	C Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	DM CS-II acute 6.5 - 9.0	MWAT CS-II chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T)	acute 340 TVS 5.0 50	 0.02 TVS TVS
COUCEA09C Designation Reviewable Qualifiers: Other: Temporary N Arsenic(chror	C Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Modification(s): nic) = hybrid	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH	DM CS-II acute	MWAT CS-II chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI	acute 340 TVS 5.0 50 TVS	 0.02 TVS TVS
COUCEA09C Designation Reviewable Qualifiers: Other: Temporary N Arsenic(chror	C Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	Biological DM CS-II acute 6.5 - 9.0	MWAT CS-II chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	acute 340 TVS 5.0 50 TVS TVS	0.02 TVS TVS TVS TVS
COUCEA09C Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chror Expiration Da	C Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Modification(s): nic) = hybrid	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	DM CS-II acute 6.5 - 9.0 cit (mg/L)	MWAT CS-II chronic 6.0 7.0 126	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	acute 340 TVS 5.0 50 TVS	0.02 TVS TVS TVS TVS WS
COUCEA09C Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chror Expiration Da *Uranium(acu	C Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Modification(s): nic) = hybrid ate of 12/31/2024	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan	Biological DM CS-II acute 6.5 - 9.0 sic (mg/L) acute	MWAT CS-II chronic 6.0 7.0 126 chronic	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T)	acute 340 TVS 5.0 50 TVS TVS	0.02 TVS TVS TVS WS 1000
COUCEA09C Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chror Expiration Da *Uranium(acu	C Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Modification(s): nic) = hybrid ate of 12/31/2024 ute) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan	Biological DM CS-II acute 6.5 - 9.0 siic (mg/L) acute TVS	MWAT CS-II chronic 6.0 7.0 126 chronic TVS	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead	acute 340 TVS 5.0 50 TVS TVS TVS	0.02 TVS TVS TVS S TVS WS 1000 TVS
COUCEA09C Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chror Expiration Da *Uranium(acu	C Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Modification(s): nic) = hybrid ate of 12/31/2024 ute) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron	Biological DM CS-II acute 6.5 - 9.0 stic (mg/L) acute TVS	MWAT CS-II chronic 6.0 7.0 126 chronic TVS 0.75	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T)	acute 340 TVS 5.0 50 TVS TVS TVS TVS 50	0.02 TVS TVS TVS TVS WS 1000 TVS
COUCEA09C Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chror Expiration Da *Uranium(acu	C Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Modification(s): nic) = hybrid ate of 12/31/2024 ute) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride	Biological DM CS-II acute 6.5 - 9.0 sic (mg/L) acute TVS	MWAT CS-II chronic 6.0 7.0 126 chronic TVS 0.75 250	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS 50 TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVSWS
COUCEA09C Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chror Expiration Da *Uranium(acu	C Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Modification(s): nic) = hybrid ate of 12/31/2024 ute) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine	DM CS-II acute 6.5 - 9.0	MWAT CS-II chronic 6.0 7.0 126 chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVSWS 0.01
COUCEA09C Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chror Expiration Da *Uranium(acu	C Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Modification(s): nic) = hybrid ate of 12/31/2024 ute) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide	Biological DM CS-II acute 6.5 - 9.0 sic (mg/L) acute TVS 0.019 0.005	MWAT CS-II chronic 6.0 7.0 126 chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01
COUCEA09C Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chror Expiration Da *Uranium(acu	C Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Modification(s): nic) = hybrid ate of 12/31/2024 ute) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate	Biological DM CS-II acute 6.5 - 9.0 site (mg/L) acute TVS 0.019 0.005 10	MWAT CS-II chronic 6.0 7.0 126 chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVSWS 0.01 150 TVS
COUCEA09C Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chror Expiration Da *Uranium(acu	C Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Modification(s): nic) = hybrid ate of 12/31/2024 ute) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	Biological DM CS-II acute 6.5 - 9.0 sic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-II chronic 6.0 7.0 126 chronic TVS 0.75 250 0.011 0.05	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS
COUCEA09C Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chror Expiration Da *Uranium(acu	C Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Modification(s): nic) = hybrid ate of 12/31/2024 ute) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	Biological DM CS-II acute 6.5 - 9.0 sic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-II chronic 6.0 7.0 126 chronic TVS 0.75 250 0.011 0.05	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVSWS 0.01 150 TVS 1000 TVS
COUCEA09C Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chror Expiration Da *Uranium(acu	C Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Modification(s): nic) = hybrid ate of 12/31/2024 ute) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	Biological DM CS-II acute 6.5 - 9.0 10c (mg/L) acute TVS 0.019 0.005 10	MWAT CS-II chronic 6.0 7.0 126 Chronic TVS 0.75 250 0.011 0.05 WS	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium Silver	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVSWS 0.01 150 TVS 100 TVS TVS TVS TVS TVS
COUCEA09C Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chror Expiration Da *Uranium(acu	C Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Modification(s): nic) = hybrid ate of 12/31/2024 ute) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	Biological DM CS-II acute 6.5 - 9.0 sic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-II chronic 6.0 7.0 126 chronic TVS 0.75 250 0.011 0.05	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVSWS 0.01 150 TVS 1000 TVS

t = total tr = trout sc = sculpin D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly:

		Il wetlands, from a point immediately			Creek to the confluence w	vith the Colorado Rive	er, except for
	gs in Segments 10b, 11 and 12, and A Classifications	I those waters included in Segment Physical and			T ,	Metals (ug/L)	
Designation		i iiyoloul ullu	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
Qualifiers:	'	D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
	Andification (a).	chlorophyll a (mg/m²)		150	Chromium III(T)	50	
emporary it Arsenic(chror	Modification(s):	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
•	ate of 12/31/2024	u ··· ,			Copper	TVS	TVS
zxpiration De	10 01 12/01/2021	Inorgan	ic (mg/L)		Iron		WS
Uranium(acı	ute) = See 33.5(3) for details.	9	acute	chronic	Iron(T)		1000
Uranium(chr	ronic) = See 33.5(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
			0.005		Molybdenum(T)		150
		Cyanide	10		, , ,	TVS	TVS
		Nitrate Nitrite		0.05	Nickel Nickel/T)		100
					Nickel(T)		
		Phosphorus		0.11	Selenium	TVS	TVS
		Sulfate		WS	Silver	TVS	TVS(tr)
		Sulfide		0.002	Uranium	varies*	varies*
10h Abrama	Crook including all tributaries and a	wetlands, from the source to the eas	torn boundary of the	United State	Zinc	TVS	TVS
	Classifications	Physical and		Officed State		Metals (ug/L)	
Designation		1 Hydrour und	DM	MWAT	•	acute	chronic
DW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	
	Recreation E	Tomporataro O	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
		chlorophyll a (mg/m²)		150	Chromium III(T)	50	
	Modification(s):			126	` '	TVS	
Arsenic(chror	· ·	E. coli (per 100 mL)		120	Chromium VI	TVS	TVS TVS
expiration Da	ate of 12/31/2024	Inorman	io (ma/l)		Copper		
Uranium(acı	ute) = See 33.5(3) for details.	inorgan	ic (mg/L)	-11-	Iron		WS
Uranium(chr	ronic) = See 33.5(3) for details.		acute	chronic	lron(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)
		la ini			Territoria de la companya della companya della companya de la companya della comp		*
		Sulfide		0.002	Uranium	varies*	varies*

t = total tr = trout sc = sculpin D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 33.6 for further details on applied standards.

	TOT AIRAIT CIEEK (Hear Wolcott) ITOTT	the source to the confluence with the		Sterri Or Willik	Oreck ironi the source to t	ne confidence with th	e cagle Kivel
COUCEA11	Classifications	Physical and	Biological		-	Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	
	Recreation P		acute	chronic	Arsenic(T)		7.6
Qualifiers:		D.O. (mg/L)		6.0	Beryllium(T)		100
Fish Ingestic	on Standards Apply	D.O. (spawning)		7.0	Cadmium	TVS	TVS
Other:		pH	6.5 - 9.0		Chromium III	TVS	TVS
		chlorophyll a (mg/m²)		150	Chromium III(T)		100
•	ute) = See 33.5(3) for details.	E. coli (per 100 mL)		205	Chromium VI	TVS	TVS
ruranium(cnr	ronic) = See 33.5(3) for details.				Copper	TVS	TVS
		Inorgan	ic (mg/L)		Iron(T)		1000
			acute	chronic	Lead	TVS	TVS
		Ammonia	TVS	TVS	Manganese	TVS	TVS
		Boron		0.75	Manganese(T)		200
		Chloride		250	Mercury(T)		0.01
		Chlorine	0.019	0.011	Molybdenum(T)		150
		Cyanide	0.005		Nickel	TVS	TVS
		Nitrate	100		Selenium	TVS	TVS
		Nitrite		0.05	Silver	TVS	TVS(tr)
		Phosphorus		0.11	Uranium	varies*	varies*
		Sulfate			Zinc	TVS	TVS
		Sulfide		0.002			
12. Mainstem	of Brush Creek, from the source to	the confluence with the Eagle River	, including the East a	and West Fo	rks, except for those tribut	aries included in Seg	ment 1.
COUCEA12	Classifications	Physical and	Biological			Metals (ug/L)	
Designation							
ooignation	Agriculture		DM	MWAT		acute	chronic
	Aq Life Cold 1	Temperature °C	DM CS-I	MWAT CS-I	Arsenic	acute 340	chronic
	Aq Life Cold 1 Recreation E	Temperature °C			Arsenic Arsenic(T)		chronic 0.02
Reviewable	Aq Life Cold 1	Temperature °C D.O. (mg/L)	CS-I	CS-I		340	
Reviewable	Aq Life Cold 1 Recreation E	·	CS-I acute	CS-I chronic	Arsenic(T)	340	0.02
Reviewable Qualifiers: Other:	Aq Life Cold 1 Recreation E	D.O. (mg/L)	CS-I acute	CS-I chronic 6.0	Arsenic(T) Cadmium	340 TVS	0.02 TVS
Reviewable Qualifiers: Other:	Aq Life Cold 1 Recreation E	D.O. (mg/L) D.O. (spawning)	CS-I acute 	CS-I chronic 6.0 7.0	Arsenic(T) Cadmium Cadmium(T)	340 TVS 5.0	0.02 TVS
Reviewable Qualifiers: Other: Femporary M	Aq Life Cold 1 Recreation E Water Supply	D.O. (mg/L) D.O. (spawning) pH	CS-I acute 6.5 - 9.0	CS-I chronic 6.0 7.0	Arsenic(T) Cadmium Cadmium(T) Chromium III	340 TVS 5.0 	 0.02 TVS TVS
Reviewable Qualifiers: Other: Femporary Marsenic(chroromatics)	Aq Life Cold 1 Recreation E Water Supply	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	CS-I acute 6.5 - 9.0	CS-I chronic 6.0 7.0 150	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T)	340 TVS 5.0 50	 0.02 TVS TVS
Reviewable Qualifiers: Other: Femporary Marsenic(chrorest propertion Date)	Aq Life Cold 1 Recreation E Water Supply Modification(s): nic) = hybrid ate of 12/31/2024	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	CS-I acute 6.5 - 9.0	CS-I chronic 6.0 7.0 150	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI	340 TVS 5.0 50 TVS	0.02 TVS TVS TVS
Qualifiers: Other: Temporary Marsenic(chroresty) Expiration Da	Aq Life Cold 1 Recreation E Water Supply Modification(s): nic) = hybrid ate of 12/31/2024 ute) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	CS-I acute 6.5 - 9.0	CS-I chronic 6.0 7.0 150	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	340 TVS 5.0 50 TVS	 0.02 TVS TVS TVS
Qualifiers: Other: Femporary Marsenic(chroresty) Expiration Da	Aq Life Cold 1 Recreation E Water Supply Modification(s): nic) = hybrid ate of 12/31/2024	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	CS-I acute 6.5 - 9.0 ic (mg/L)	CS-I chronic 6.0 7.0 150 126	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron	340 TVS 5.0 50 TVS TVS	0.02 TVS TVS TVS WS
Qualifiers: Other: Femporary Marsenic(chroresty) Expiration Da	Aq Life Cold 1 Recreation E Water Supply Modification(s): nic) = hybrid ate of 12/31/2024 ute) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	CS-I acute 6.5 - 9.0 ic (mg/L) acute	CS-I chronic 6.0 7.0 150 126	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T)	340 TVS 5.0 50 TVS TVS	0.02 TVS TVS TVS WS 1000
Qualifiers: Other: Femporary Marsenic(chroresty) Expiration Da	Aq Life Cold 1 Recreation E Water Supply Modification(s): nic) = hybrid ate of 12/31/2024 ute) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan	CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	CS-I chronic 6.0 7.0 150 126 chronic TVS	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead	340 TVS 5.0 50 TVS TVS TVS	0.02 TVS TVS TVS S TVS WS 1000 TVS
Qualifiers: Other: Femporary Marsenic(chrorest Expiration Daulerst Dauler	Aq Life Cold 1 Recreation E Water Supply Modification(s): nic) = hybrid ate of 12/31/2024 ute) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron	CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T)	340 TVS 5.0 50 TVS TVS TVS 50	0.02 TVS TVS TVS TVS TVS TVS TVS TVS TVS
Qualifiers: Other: Femporary Marsenic(chrorexpiration Date of the control of the	Aq Life Cold 1 Recreation E Water Supply Modification(s): nic) = hybrid ate of 12/31/2024 ute) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride	CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS	0.02 TVS
Qualifiers: Other: Femporary Marsenic(chrorexpiration Date of the control of the	Aq Life Cold 1 Recreation E Water Supply Modification(s): nic) = hybrid ate of 12/31/2024 ute) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine	CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019	CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250 0.011	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS	0.02 TVS TVS TVS TVS S 1000 TVS TVSWS
Qualifiers: Other: Femporary Marsenic(chroresty) Expiration Da	Aq Life Cold 1 Recreation E Water Supply Modification(s): nic) = hybrid ate of 12/31/2024 ute) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide	CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005	CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	340 TVS 5.0 50 TVS TVS TVS 50 TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01
Qualifiers: Other: Femporary Marsenic(chroresty) Expiration Da	Aq Life Cold 1 Recreation E Water Supply Modification(s): nic) = hybrid ate of 12/31/2024 ute) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate	CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	340 TVS 5.0 50 TVS TVS TVS 50 TVS 50 TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS
Qualifiers: Other: Temporary Marsenic(chroresty) Expiration Da	Aq Life Cold 1 Recreation E Water Supply Modification(s): nic) = hybrid ate of 12/31/2024 ute) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011 0.05	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS TVS TVS	0.02 TVS TVS TVS TVS S 1000 TVS TVS/WS 0.01 150 TVS
Qualifiers: Other: Temporary Marsenic(chroresty) Expiration Da	Aq Life Cold 1 Recreation E Water Supply Modification(s): nic) = hybrid ate of 12/31/2024 ute) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250 0.011 0.05 0.11	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 100 TVS

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

13 All lakes a	nd reservoirs tributary to the Fagle R	iver within the Gore Range - Eagl	es Nest and Holy C	ross Wilderne	ess Areas		
COUCEA13	Classifications	Physical and		1033 Wilderic	1	Metals (ug/L)	
Designation	Agriculture	, , , , , ,	DM	MWAT		acute	chronic
OW	Ag Life Cold 1	Temperature °C	CL,CLL	CL,CLL	Arsenic	340	
	Recreation E	,, p	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
		chlorophyll a (ug/L)		8*	Chromium III(T)	50	
	(ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
area.	· ·	,			Copper	TVS	TVS
	chronic) = applies only to lakes and per than 25 acres surface area.	Inorgan	ic (mg/L)		Iron		WS
_	te) = See 33.5(3) for details.		acute	chronic	Iron(T)		1000
*Uranium(chro	onic) = See 33.5(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		0.025*	Selenium	TVS	TVS
		Sulfate		WS	Silver	TVS	TVS(tr)
		Sulfide		0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
14. All lakes a	nd reservoirs tributary to the Eagle R	iver except for specific listings in	Segment 13.				
14. All lakes a	nd reservoirs tributary to the Eagle R Classifications	iver except for specific listings in Physical and	_			Metals (ug/L)	
	·		_	MWAT		Metals (ug/L)	chronic
COUCEA14	Classifications Agriculture Aq Life Cold 1		Biological	MWAT CL,CLL	Arsenic		chronic
COUCEA14 Designation	Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and	Biological DM			acute	
COUCEA14 Designation Reviewable	Classifications Agriculture Aq Life Cold 1	Physical and	Biological DM CL,CLL	CL,CLL	Arsenic	acute 340	
COUCEA14 Designation	Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C D.O. (mg/L) D.O. (spawning)	Biological DM CL,CLL acute	CL,CLL chronic	Arsenic Arsenic(T)	acute 340 	0.02
COUCEA14 Designation Reviewable	Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH	Biological DM CL,CLL acute	CL,CLL chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium	acute 340 TVS	0.02 TVS
COUCEA14 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L)	Biological DM CL,CLL acute	CL,CLL chronic 6.0 7.0 8*	Arsenic Arsenic(T) Cadmium Cadmium(T)	acute 340 TVS 5.0	0.02 TVS
COUCEA14 Designation Reviewable Qualifiers: Other: *chlorophyll a lakes and rese	Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH	Biological DM CL,CLL acute 6.5 - 9.0	CL,CLL chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III	acute 340 TVS 5.0	 0.02 TVS TVS
COUCEA14 Designation Reviewable Qualifiers: Other: *chlorophyll a lakes and researea.	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply (ug/L)(chronic) = applies only to	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L)	Biological DM CL,CLL acute 6.5 - 9.0	CL,CLL chronic 6.0 7.0 8*	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T)	acute 340 TVS 5.0 50	0.02 TVS TVS TVS TVS
COUCEA14 Designation Reviewable Qualifiers: Other: *chlorophyll a lakes and researea. *Phosphorus(creservoirs largereservoirs largereservoirs largereservoirs largereservoirs)	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface chronic) = applies only to lakes and ler than 25 acres surface area.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL)	Biological DM CL,CLL acute 6.5 - 9.0	CL,CLL chronic 6.0 7.0 8*	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron	acute 340 TVS 5.0 50 TVS	0.02 TVS TVS TVS TVS WS
COUCEA14 Designation Reviewable Qualifiers: Other: *chlorophyll a lakes and researea. *Phosphorus(oreservoirs larges*Uranium(acute)	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface chronic) = applies only to lakes and ler than 25 acres surface area. te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL)	Biological DM CL,CLL acute 6.5 - 9.0 clic (mg/L) acute	CL,CLL chronic 6.0 7.0 8* 126 chronic	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T)	acute 340 TVS 5.0 50 TVS TVS	0.02 TVS TVS TVS WS 1000
COUCEA14 Designation Reviewable Qualifiers: Other: *chlorophyll a lakes and researea. *Phosphorus(creservoirs larg*Uranium(acut*)	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface chronic) = applies only to lakes and ler than 25 acres surface area.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgan	Biological DM CL,CLL acute 6.5 - 9.0 cute iic (mg/L)	CL,CLL chronic 6.0 7.0 8* 126 chronic TVS	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T)	acute 340 TVS 5.0 50 TVS TVS TVS	0.02 TVS TVS TVS TVS WS
COUCEA14 Designation Reviewable Qualifiers: Other: *chlorophyll a lakes and researea. *Phosphorus(creservoirs larg*Uranium(acut*)	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface chronic) = applies only to lakes and ler than 25 acres surface area. te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL)	Biological DM CL,CLL acute 6.5 - 9.0 clic (mg/L) acute	CL,CLL chronic 6.0 7.0 8* 126 chronic TVS 0.75	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T)	acute 340 TVS 5.0 50 TVS TVS TVS TVS 50	0.02 TVS TVS TVS S TVS WS 1000 TVS
COUCEA14 Designation Reviewable Qualifiers: Other: *chlorophyll a lakes and researea. *Phosphorus(creservoirs larg*Uranium(acut*)	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface chronic) = applies only to lakes and ler than 25 acres surface area. te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride	Biological DM CL,CLL acute 6.5 - 9.0 sic (mg/L) acute TVS	CL,CLL chronic 6.0 7.0 8* 126 chronic TVS 0.75 250	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	acute 340 TVS 5.0 50 TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS
COUCEA14 Designation Reviewable Qualifiers: Other: *chlorophyll a lakes and researea. *Phosphorus(creservoirs larg*Uranium(acut*)	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface chronic) = applies only to lakes and ler than 25 acres surface area. te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine	DM CL,CLL acute 6.5 - 9.0	CL,CLL chronic 6.0 7.0 8* 126 chronic TVS 0.75	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	acute 340 TVS 5.0 50 TVS TVS TVS TVS 50	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01
COUCEA14 Designation Reviewable Qualifiers: Other: *chlorophyll a lakes and researea. *Phosphorus(creservoirs larg*Uranium(acut*)	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface chronic) = applies only to lakes and ler than 25 acres surface area. te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide	DM CL,CLL acute 6.5 - 9.0	CL,CLL chronic 6.0 7.0 8* 126 chronic TVS 0.75 250	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01
COUCEA14 Designation Reviewable Qualifiers: Other: *chlorophyll a lakes and researea. *Phosphorus(creservoirs larg*Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface chronic) = applies only to lakes and ler than 25 acres surface area. te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate	DM CL,CLL acute 6.5 - 9.0	CL,CLL chronic 6.0 7.0 8* 126 chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS
COUCEA14 Designation Reviewable Qualifiers: Other: *chlorophyll a lakes and researea. *Phosphorus(creservoirs larg*Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface chronic) = applies only to lakes and ler than 25 acres surface area. te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	DM CL,CLL acute 6.5 - 9.0	CL,CLL chronic 6.0 7.0 8* 126 chronic TVS 0.75 250 0.011 0.05	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS
COUCEA14 Designation Reviewable Qualifiers: Other: *chlorophyll a lakes and researea. *Phosphorus(creservoirs larg*Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface chronic) = applies only to lakes and ler than 25 acres surface area. te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	Biological DM CL,CLL acute 6.5 - 9.0 site (mg/L) acute TVS 0.019 0.005 10	CL,CLL chronic 6.0 7.0 8* 126 chronic TVS 0.75 250 0.011 0.05 0.025*	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS
COUCEA14 Designation Reviewable Qualifiers: Other: *chlorophyll a lakes and researea. *Phosphorus(creservoirs larg*Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface chronic) = applies only to lakes and ler than 25 acres surface area. te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	Biological DM CL,CLL acute 6.5 - 9.0 sic (mg/L) acute TVS 0.019 0.005 10	CL,CLL chronic 6.0 7.0 8* 126 chronic TVS 0.75 250 0.011 0.05	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium Silver	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS
COUCEA14 Designation Reviewable Qualifiers: Other: *chlorophyll a lakes and researea. *Phosphorus(creservoirs larg*Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface chronic) = applies only to lakes and ler than 25 acres surface area. te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	Biological DM CL,CLL acute 6.5 - 9.0 sic (mg/L) acute TVS 0.019 0.005 10 10	CL,CLL chronic 6.0 7.0 8* 126 chronic TVS 0.75 250 0.011 0.05 0.025*	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 1000 TVS

t = total tr = trout sc = sculpin D.O. = dissolved oxygen
DM = daily maximum
MM/AT = maximum week

COUCRF01	Classifications	Physical and	Biological		N	letals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
OW	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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		рН	6.5 - 9.0		Chromium III		TVS
		chlorophyll a (mg/m²)		150	Chromium III(T)	50	
,	ite) = See 33.5(3) for details.	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
*Uranium(chr	onic) = See 33.5(3) for details.				Copper	TVS	TVS
		Inorgan	ic (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
		Phosphorus		0.11	Selenium	TVS	TVS
		Sulfate		WS	Silver	TVS	TVS(tr
		Sulfide		0.002	Uranium	varies*	varies'
					Zinc	TVS	TVS

2. Mainstem of the Roaring Fork River, including all tributaries and wetlands, from the source to a point immediately below the confluence with Hunter Creek, except for those tributaries included in Segment 1.

COUCRF02	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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		рН	6.5 - 9.0		Chromium III		TVS
Temporary M	odification(s):	chlorophyll a (mg/m²)		150	Chromium III(T)	50	
Arsenic(chron	· /	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
Expiration Dat	e of 12/31/2024				Copper	TVS	TVS
*! !ranium/aau	te) = See 33.5(3) for details.	Inorgan	ic (mg/L)		Iron		WS
,	onic) = See 33.5(3) for details.		acute	chronic	Iron(T)		1000
Oranium(cin	offic) = See 33.3(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/TVS(sc)

3a. Mainstem of the Roaring Fork River, from a point immediately below the confluence with Hunter Creek, to a point immediately below the confluence with the Fryingpan River. All tributaries to the Roaring Fork River, including wetlands, from a point immediately below the confluence with Hunter Creek to the confluence with the Colorado River, except for those tributaries included in Segment 1, 3b, 3d, 4-10b.

COUCRF03A	Classifications	Physical and Bi	ological			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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
Temporary Mo	odification(s):	chlorophyll a (mg/m²)		150*	Chromium III(T)	50	
Arsenic(chroni	` '	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
Expiration Date	e of 12/31/2024				Copper	TVS	TVS
*chlorophyll a	(mg/m²)(chronic) = applies only	Inorganic	(mg/L)		Iron		WS
above the facil	lities listed at 33.5(4).		acute	chronic	Iron(T)		1000
*Phosphorus(c facilities listed	chronic) = applies only above the at 33.5(4).	Ammonia	TVS	TVS	Lead	TVS	TVS
	re) = See 33.5(3) for details.	Boron		0.75	Lead(T)	50	
*Uranium(chro	onic) = See 33.5(3) for details.	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

3b. Mainstem of Red Canyon, including all tributaries and wetlands, from the source to the confluence with the Roaring Fork River, except for Landis Creek from the source to the Hopkins Ditch (39.522138, -107.223479).

COUCRF03B	Classifications	Physical and E	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 A
	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
		chlorophyll a (mg/m²)		150	Chromium III(T)	50	
•	e) = See 33.5(3) for details.	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
*Uranium(chro	nic) = See 33.5(3) for details.				Copper	TVS	TVS
		Inorganio	c (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
		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 sc = sculpin D.O. = dissolved oxygen DM = daily maximum

sc. Mainstem	of the Roaring Fork River from a poi	int immediately below the confluence	ce with the Fryingpa	n River to the	confluence with the Colora	ado River.	
COUCRF03C	Classifications	Physical and	Biological		N	letals (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
Temporary M	odification(s):	chlorophyll a (mg/m²)		150*	Chromium III(T)	50	
Arsenic(chroni	* *	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
,	e of 12/31/2024				Copper	TVS	TVS
*ablaranhydl a	(mg/m²)(ahrania) = annliaa anly	Inorgan	ic (mg/L)		Iron		ws
above the faci	(mg/m²)(chronic) = applies only lities listed at 33.5(4).		acute	chronic	lron(T)		1000
*Phosphorus(of facilities listed	chronic) = applies only above the	Ammonia	TVS	TVS	Lead	TVS	TVS
	te) = See 33.5(3) for details.	Boron		0.75	Lead(T)	50	
*Uranium(chro	onic) = See 33.5(3) for details.	Chloride		250	Manganese	TVS	TVSWS
*Temperature	= or temperature standards.	Chlorine	0.019	0.011	Mercury(T)		0.01
366 33.0(4) 10	i temperature standards.	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
					ZIIIC	1 40	1 40
3d. Mainstem	of Cattle Creek, including all tributar	ries and wetlands, from the source	to the most downstr	eam White R			1 70
3d. Mainstem		ries and wetlands, from the source Physical and		eam White R	iver National Forest bounda		1 40
				eam White R	iver National Forest bounda	ary.	chronic
COUCRF03D	Classifications Agriculture Aq Life Cold 1		Biological		iver National Forest bounda	ary. letals (ug/L)	
COUCRF03D Designation	Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and	Biological DM	MWAT	iver National Forest bounda	ary. letals (ug/L) acute	chronic
COUCRF03D Designation OW	Classifications Agriculture Aq Life Cold 1	Physical and	Biological DM CS-I	MWAT CS-I	iver National Forest bounda N Arsenic	ary. letals (ug/L) acute 340	chronic
COUCRF03D Designation	Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C	Biological DM CS-I acute	MWAT CS-I chronic	Arsenic Arsenic(T)	ary. letals (ug/L) acute 340	chronic 0.02
COUCRF03D Designation OW	Classifications Agriculture Aq Life Cold 1 Recreation E	Temperature °C D.O. (mg/L) D.O. (spawning) pH	Biological DM CS-I acute	MWAT CS-I chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium	ary. letals (ug/L) acute 340 TVS	chronic 0.02 TVS
COUCRF03D Designation OW Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	Biological DM CS-I acute	MWAT CS-I chronic 6.0 7.0 150	Arsenic Arsenic(T) Cadmium Cadmium(T)	ary. letals (ug/L) acute 340 TVS 5.0	chronic 0.02 TVS
COUCRF03D Designation OW Qualifiers: Other: *Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH	DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III	ary. letals (ug/L) acute 340 TVS 5.0	chronic 0.02 TVS TVS
COUCRF03D Designation OW Qualifiers: Other: *Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T)	ary. letals (ug/L) acute 340 TVS 5.0 50	chronic 0.02 TVS TVS
COUCRF03D Designation OW Qualifiers: Other: *Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III Chromium VI Copper	ary. letals (ug/L) acute 340 TVS 5.0 50 TVS	chronic 0.02 TVS TVS TVS TVS WS
COUCRF03D Designation OW Qualifiers: Other: *Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T)	ary. letals (ug/L) acute 340 TVS 5.0 50 TVS TVS	chronic 0.02 TVS TVS TVS TVS
COUCRF03D Designation OW Qualifiers: Other: *Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L)	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead	ary. letals (ug/L) acute 340 TVS 5.0 50 TVS TVS	chronic 0.02 TVS TVS TVS TVS WS
COUCRF03D Designation OW Qualifiers: Other: *Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute	MWAT CS-I chronic 6.0 7.0 150 126 chronic	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T)	ary. letals (ug/L) acute 340 TVS 5.0 50 TVS TVS	chronic 0.02 TVS TVS TVS WS 1000
COUCRF03D Designation OW Qualifiers: Other: *Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan	DM CS- acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	ary. letals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS TVS	chronic 0.02 TVS TVS TVS TVS TVS TVS TVS WS 1000 TVS
COUCRF03D Designation OW Qualifiers: Other: *Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	ary. letals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS TVS 50	chronic 0.02 TVS
COUCRF03D Designation OW Qualifiers: Other: *Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	ary. acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS TVS TVS TVS	Chronic 0.02 TVS
COUCRF03D Designation OW Qualifiers: Other: *Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	ary. letals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS TVS 50 TVS	Chronic 0.02 TVS TVS TVS S TVS TVS TVS WS 1000 TVS TVS/WS 0.01
COUCRF03D Designation OW Qualifiers: Other: *Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	ary. letals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS	Chronic 0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150
COUCRF03D Designation OW Qualifiers: Other: *Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	ary. letals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS TV	Chronic 0.02 TVS TVS TVS WS 1000 TVS TVSWS 0.01 150 TVS
COUCRF03D Designation OW Qualifiers: Other: *Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011 0.05	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	ary. letals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS TVS 50 TVS TVS TVS TVS TVS TVS	Chronic 0.02 TVS TVS TVS STVS WS 1000 TVS TVS/WS 0.01 150 TVS
COUCRF03D Designation OW Qualifiers: Other: *Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250 0.011 0.05 0.11	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	ary. Ietals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS	Chronic 0.02 TVS TVS TVS TVS STVS WS 1000 TVS TVS/WS 0.01 150 TVS 1000 TVS

t = total tr = trout sc = sculpin D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly aver;

		e confluence with the Roaring Forl	KRIVEr.				
COUCRF04	Classifications	Physical and				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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
Temporary M	odification(s):	chlorophyll a (mg/m²)		150*	Chromium III(T)	50	
Arsenic(chron	* *	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
,	e of 12/31/2024				Copper	TVS	TVS
·		Inorgan	ic (mg/L)		Iron		WS
	(mg/m²)(chronic) = applies only lities listed at 33.5(4).		acute	chronic	Iron(T)		1000
*Phosphorus(of facilities listed	chronic) = applies only above the	Ammonia	TVS	TVS	Lead	TVS	TVS
	te) = See 33.5(3) for details.	Boron		0.75	Lead(T)	50	
*Uranium(chro	onic) = See 33.5(3) for details.	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
	f the Fryingpan River from the source	ce to the confluence with the North	Fork Fryingpan Rive	r, except for	the portion included in Se	gment 1.	
COUCRF05	Classifications	Physical and	<u>-</u>			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
0	Water Supply	D.O. (mg/L)		6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)		
					Juannam(1)	5.0	
Other:		рН	6.5 - 9.0		Chromium III		TVS
	ta) - Saa 22 5/2) for dataila	chlorophyll a (mg/m²)	6.5 - 9.0	150		 50	
*Uranium(acu	te) = See 33.5(3) for details.	•			Chromium III	50 TVS	TVS
*Uranium(acu	te) = See 33.5(3) for details. onic) = See 33.5(3) for details.	chlorophyll a (mg/m²) E. coli (per 100 mL)		150	Chromium III Chromium III(T)	 50	TVS TVS
*Uranium(acu	, , ,	chlorophyll a (mg/m²) E. coli (per 100 mL)		150 126	Chromium III Chromium III(T) Chromium VI Copper Iron	50 TVS	TVS TVS WS
*Uranium(acu	, , ,	chlorophyll a (mg/m²) E. coli (per 100 mL)	 sic (mg/L)	150 126 chronic	Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T)	50 TVS TVS	TVS TVS WS 1000
*Uranium(acu	, , ,	chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan	sic (mg/L) acute TVS	150 126 chronic TVS	Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead	 50 TVS TVS TVS	TVS TVS WS
*Uranium(acu	, , ,	chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron	acute TVS	150 126 chronic TVS 0.75	Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T)	 50 TVS TVS TVS	TVS TVS WS 1000 TVS
*Uranium(acu	, , ,	chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride	acute TVS	150 126 chronic TVS 0.75 250	Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	50 TVS TVS TVS 50 TVS 50 TVS	TVS TVS WS 1000 TVS TVSWS
*Uranium(acu	, , ,	chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine	sic (mg/L) acute TVS 0.019	150 126 chronic TVS 0.75 250 0.011	Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	TVS TVS TVS TVS TVS TVS TVS TVS	TVS TVS WS 1000 TVS TVS/WS 0.01
*Uranium(acu	, , ,	chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide	nic (mg/L) acute TVS 0.019 0.005	150 126 chronic TVS 0.75 250 0.011	Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	TVS TVS TVS TVS TVS TVS TVS TVS TO	TVS TVS WS 1000 TVS TVS/WS 0.01 150
*Uranium(acu	, , ,	chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate	nic (mg/L) acute TVS 0.019 0.005 10	150 126 chronic TVS 0.75 250 0.011	Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	50 TVS TVS TVS 50 TVS 50 TVS TVS	TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS
*Uranium(acu	, , ,	chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	nic (mg/L) acute TVS 0.019 0.005 10	150 126 chronic TVS 0.75 250 0.011 0.05	Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	50 TVS TVS TVS 50 TVS TVS TVS TVS	TVS TVS WS 1000 TVS TVSWS 0.01 150 TVS 100
*Uranium(acu	, , ,	chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	nic (mg/L) acute TVS 0.019 0.005 10	150 126 chronic TVS 0.75 250 0.011 0.05 0.11	Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	50 TVS TVS TVS 50 TVS TVS TVS TVS	TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 100 TVS
*Uranium(acu	, , ,	chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	nic (mg/L) acute TVS 0.019 0.005 10	150 126 chronic TVS 0.75 250 0.011 0.05 0.11 WS	Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium Silver	50 TVS TVS TVS 50 TVS 50 TVS TVS TVS TVS TVS TVS	TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 100 TVS TVS(tr)
*Uranium(acu	, , ,	chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	sic (mg/L) acute TVS 0.019 0.005 10	150 126 chronic TVS 0.75 250 0.011 0.05 0.11	Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	50 TVS TVS TVS 50 TVS TVS TVS TVS	TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 100 TVS

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

6. Mainstem o	of the Fryingpan River from the con	fluence with the North Fork Fryingpa	an River to the conflu	ence with th	ne Roaring Fork River.		
COUCRF06	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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		рН	6.5 - 9.0		Chromium III		TVS
Temporary M	odification(s):	chlorophyll a (mg/m²)		150	Chromium III(T)	50	
Arsenic(chroni	, ,	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
Expiration Dat	te of 12/31/2024				Copper	TVS	TVS
*I Iranium/acut	te) = See 33.5(3) for details.	Inorgan	ic (mg/L)		Iron		WS
	onic) = See 33.5(3) for details.		acute	chronic	Iron(T)		1000
Oramam(one	5/110) = 000 00.5(0) 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/TVS(sc)
!							. ,
	1	g all wetlands, from the source to the		Roaring For		tributaries included	. ,
COUCRF07	Classifications	g all wetlands, from the source to the Physical and	Biological			tributaries included Metals (ug/L)	in Segment 1.
COUCRF07 Designation	Classifications Agriculture	Physical and	Biological DM	MWAT	k River, except for those	metals (ug/L) acute	. ,
COUCRF07	Classifications Agriculture Aq Life Cold 1		Biological DM CS-I	MWAT CS-I	k River, except for those Arsenic	tributaries included Metals (ug/L)	in Segment 1.
COUCRF07 Designation	Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C	Biological DM CS-I acute	MWAT CS-I chronic	k River, except for those Arsenic Arsenic(T)	tributaries included Metals (ug/L) acute 340	chronic 0.02
COUCRF07 Designation Reviewable	Classifications Agriculture Aq Life Cold 1	Physical and Temperature °C D.O. (mg/L)	Biological DM CS-I acute	MWAT CS-I chronic 6.0	Arsenic Arsenic(T) Cadmium	metals (ug/L) acute 340 TVS	in Segment 1.
COUCRF07 Designation Reviewable Qualifiers:	Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C D.O. (mg/L) D.O. (spawning)	Biological DM CS-I acute	MWAT CS-I chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T)	metals (ug/L) acute 340 TVS 5.0	chronic 0.02 TVS
COUCRF07 Designation Reviewable	Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH	DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III	ributaries included Metals (ug/L) acute 340 TVS 5.0	chronic 0.02
COUCRF07 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T)	ributaries included Metals (ug/L) acute 340 TVS 5.0 50	chronic 0.02 TVS TVS
COUCRF07 Designation Reviewable Qualifiers: Other: *Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH	DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI	ributaries included Metals (ug/L) acute 340 TVS 5.0 50 TVS	chronic 0.02 TVS TVS TVS
COUCRF07 Designation Reviewable Qualifiers: Other: *Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper	ributaries included Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS	chronic 0.02 TVS TVS TVS TVS
COUCRF07 Designation Reviewable Qualifiers: Other: *Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L)	MWAT CS-I chronic 6.0 7.0 150 126	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron	ributaries included Metals (ug/L) acute 340 TVS 5.0 50 TVS	chronic 0.02 TVS TVS TVS TVS SVS TVS WS
COUCRF07 Designation Reviewable Qualifiers: Other: *Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute	MWAT CS-I chronic 6.0 7.0 150 126 chronic	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T)	tributaries included Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS	in Segment 1. chronic 0.02 TVS TVS TVS STVS WS 1000
COUCRF07 Designation Reviewable Qualifiers: Other: *Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead	tributaries included Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS TVS	in Segment 1. chronic 0.02 TVS TVS TVS S TVS WS 1000 TVS
COUCRF07 Designation Reviewable Qualifiers: Other: *Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T)	ributaries included Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS TVS 50	in Segment 1. chronic 0.02 TVS TVS TVS TVS WS 1000 TVS
COUCRF07 Designation Reviewable Qualifiers: Other: *Uranium(acut	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	ributaries included Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 5.0 TVS TVS TVS TVS TVS TVS TVS TV	in Segment 1. chronic 0.02 TVS TVS TVS WS 1000 TVS TVS/WS
COUCRF07 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	ributaries included Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS	in Segment 1. chronic 0.02 TVS TVS SUS TVS WS 1000 TVS TVS WS 1000 TVS TVS WS 0.01
COUCRF07 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	ributaries included Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS	in Segment 1. chronic 0.02 TVS TVS STVS WS 1000 TVS TVSWS 0.01 150
COUCRF07 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250 0.011	k River, except for those Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	ributaries included Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS TV	in Segment 1. chronic 0.02 TVS TVS SUS 1000 TVS TVS/WS 0.01 150 TVS
COUCRF07 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250 0.011 0.05	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	ributaries included Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS 50 TVS	in Segment 1. chronic 0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS
COUCRF07 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011 0.05 0.11	k River, except for those Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	tributaries included Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS TVS	in Segment 1. chronic 0.02 TVS TVS SUS 1000 TVS TVS/WS 0.01 150 TVS 100 TVS 100 TVS 100 TVS
COUCRF07 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10 -	MWAT CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011 0.05 0.11 WS	k River, except for those Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium Silver	tributaries included Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS	in Segment 1. chronic 0.02 TVS TVS SUS 1000 TVS TVSMS 0.01 150 TVS 100 TVS
COUCRF07 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011 0.05 0.11	k River, except for those Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	tributaries included Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS TVS	in Segment 1. chronic 0.02 TVS TVS SUS 1000 TVS TVSMS 0.01 150 TVS 100 TVS 100 TVS 100 TVS 100 TVS

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

8. Mainstem of 10a and 10b.	f the Crystal River, including all tribu		ce to the confluence		aring Fork River, except fo	r the specific listings i	in Segments 1, 9
COUCRF08	Classifications	Physical and I	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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
	adification(a).	chlorophyll a (mg/m²)		150*	Chromium III(T)	50	
Temporary M Arsenic(chron		E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
•	re of 12/31/2024	u /			Copper	TVS	TVS
·		Inorgani	c (ma/L)		Iron		WS
	(mg/m²)(chronic) = applies only lities listed at 33.5(4).	morgani	acute	chronic	Iron(T)		1000
*Phosphorus(chronic) = applies only above the	Ammonia	TVS	TVS	Lead	TVS	TVS
facilities listed	at 33.5(4). te) = See 33.5(3) for details.			0.75	Lead(T)	50	
,	onic) = See 33.5(3) for details.	Boron			Manganese	TVS	TVSWS
Oramam(cm)	orne) = occ oo.o(o) for actains.	Chloride		250			0.01
		Chlorine	0.019	0.011	Mercury(T) Molybdenum(T)		
		Cyanide	0.005		, , ,		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*
0. Maioretana	f O and O and the first of the second section of	and and a few all the comments to	l	h - O	Zinc	TVS	TVS
COUCRF09	f Coal Creek, including all tributaries Classifications	Physical and I		ne Crystal K	1	Metals (ug/L)	
Designation	Agriculture	,	DM	MWAT		acute	chronic
Reviewable	Ag Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	
	Recreation E	Tomporataro o	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
		•	0.0 0.0		Chiomidin in		1 70
Temperen M				150	Chromium III/T)	50	
-	odification(s):	chlorophyll a (mg/m²)		150 126	Chromium VI	50	 TV9
Arsenic(chron	ic) = hybrid	E. coli (per 100 mL)		150 126	Chromium VI	TVS	TVS
Arsenic(chron		E. coli (per 100 mL)			Chromium VI Copper	TVS TVS	TVS TVS
Arsenic(chron Expiration Dat	ic) = hybrid	, , , , , ,	 c (mg/L)	126	Chromium VI Copper Iron	TVS TVS	TVS TVS WS
Arsenic(chron Expiration Dat *Uranium(acu	ic) = hybrid ie of 12/31/2024	E. coli (per 100 mL)	c (mg/L)	126	Chromium VI Copper Iron Iron(T)	TVS TVS 	TVS TVS WS 1000
Arsenic(chron Expiration Dat *Uranium(acu	ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	E. coli (per 100 mL) Inorgani Ammonia	c (mg/L) acute TVS	chronic TVS	Chromium VI Copper Iron Iron(T) Lead	TVS TVS TVS	TVS TVS WS 1000 TVS
Arsenic(chron Expiration Dat *Uranium(acu	ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	E. coli (per 100 mL) Inorgani Ammonia Boron	c (mg/L) acute TVS	chronic TVS 0.75	Chromium VI Copper Iron Iron(T) Lead Lead(T)	TVS TVS TVS 50	TVS TVS WS 1000 TVS
Arsenic(chron Expiration Dat *Uranium(acu	ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	E. coli (per 100 mL) Inorgani Ammonia Boron Chloride	c (mg/L) acute TVS	126 chronic TVS 0.75 250	Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	TVS TVS TVS 50 TVS	TVS TVS WS 1000 TVS TVSWS
Arsenic(chron Expiration Dat *Uranium(acu	ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine	c (mg/L) acute TVS 0.019	126 chronic TVS 0.75 250 0.011	Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	TVS TVS TVS 50 TVS	TVS TVS WS 1000 TVS TVSWS 0.01
Arsenic(chron Expiration Dat *Uranium(acu	ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide	c (mg/L) acute TVS 0.019 0.005	126 chronic TVS 0.75 250	Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	TVS TVS TVS 50 TVS	TVS TVS WS 1000 TVS TVSWS 0.01 150
Arsenic(chron Expiration Dat *Uranium(acu	ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide Nitrate	c (mg/L) acute TVS 0.019	126 chronic TVS 0.75 250 0.011	Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	TVS TVS TVS 50 TVS	TVS TVS WS 1000 TVS TVSWS 0.01 150 TVS
Arsenic(chron Expiration Dat *Uranium(acu	ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide	c (mg/L) acute TVS 0.019 0.005	126 chronic TVS 0.75 250 0.011	Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	TVS TVS TVS 50 TVS	TVS TVS WS 1000 TVS TVSWS 0.01 150
Arsenic(chron Expiration Dat *Uranium(acu	ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide Nitrate	c (mg/L) acute TVS 0.019 0.005 10	126 chronic TVS 0.75 250 0.011	Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	TVS TVS TVS 50 TVS TVS	TVS TVS WS 1000 TVS TVSWS 0.01 150 TVS
Arsenic(chron Expiration Dat *Uranium(acu	ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	c (mg/L) acute TVS 0.019 0.005 10	126 chronic TVS 0.75 250 0.011 0.05	Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	TVS TVS TVS 50 TVS TVS	TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 100
Arsenic(chron Expiration Dat *Uranium(acu	ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	c (mg/L) acute TVS 0.019 0.005 10	126 chronic TVS 0.75 250 0.011 0.05 0.11	Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	TVS TVS TVS 50 TVS TVS TVS TVS	TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 100 TVS

t = total tr = trout sc = sculpin D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 33.6 for further details on applied standards.

COUCRF10A	Classifications	Il tributaries and wetlands, from the s Physical and				Metals (ug/L)	
Designation	Agriculture	,	DM	MWAT		acute	chronic
Reviewable	Ag Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	
	Recreation E	Tomporatare C	acute	chronic	Arsenic(T)		0.02
	Water Supply	D.O. (mg/L)		6.0	Cadmium	TVS	TVS
Qualifiers:	1	D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
		chlorophyll a (mg/m²)		150	Chromium III(T)	50	
	lodification(s):	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
Arsenic(chron	te of 12/31/2024	2. son (por 100 m2)		.20	Copper	TVS	TVS
Expiration Dai	le 01 12/31/2024	Inorgan	ic (mg/L)		Iron		WS
Uranium(acu	te) = See 33.5(3) for details.	illorgan	acute	chronic	Iron(T)		1000
Uranium(chro	onic) = See 33.5(3) for details.	Ammonio	TVS	TVS	Lead	TVS	TVS
		Ammonia			Lead(T)	50	
		Boron Chloride		0.75 250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	173	0.01
					Molybdenum(T)		150
		Cyanide	0.005		Nickel	TVS	TVS
		Nitrate					100
		Nitrite		0.05	Nickel(T) Selenium	TVS	TVS
		Phosphorus		0.11			
		Sulfate		WS	Silver	TVS	TVS(tr)
		Sulfide		0.002	Uranium	varies*	varies*
		ding all tributaries and wetlands, fron ource to a point immediately below t		/hite River N			,
ncluding all tr	ibutaries and wetlands, from the s Classifications		he confluence with the Biological	/hite River N ne South Bra	ational Forest boundary. I	Mainstem of Middle Creek. Metals (ug/L)	Thompson Cre
ncluding all tr COUCRF10B Designation	ibutaries and wetlands, from the s Classifications Agriculture	ource to a point immediately below the Physical and	he confluence with the Biological	/hite River N ne South Bra MWAT	ational Forest boundary. I nch of Middle Thompson	Mainstem of Middle Creek. Metals (ug/L) acute	e Thompson Cre
ncluding all tr COUCRF10B Designation	ibutaries and wetlands, from the s Classifications Agriculture Aq Life Cold 1	ource to a point immediately below to	he confluence with the Biological DM CS-I	/hite River None South Brack MWAT CS-I	ational Forest boundary. Inch of Middle Thompson Arsenic	Mainstem of Middle Creek. Metals (ug/L)	chronic
ncluding all tr COUCRF10B Designation	ibutaries and wetlands, from the s Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C	he confluence with the Biological DM CS-I acute	/hite River Nae South Bra	ational Forest boundary. Inch of Middle Thompson Arsenic Arsenic(T)	Mainstem of Middle Creek. Metals (ug/L) acute 340	chronic
ncluding all tr COUCRF10B Designation	ibutaries and wetlands, from the s Classifications Agriculture Aq Life Cold 1	Temperature °C D.O. (mg/L)	he confluence with the Biological DM CS-I acute	MWAT CS-I chronic 6.0	ational Forest boundary. Inch of Middle Thompson Arsenic Arsenic(T) Cadmium	Mainstem of Middle Creek. Metals (ug/L) acute 340 TVS	chronic 0.02 TVS
ncluding all tr COUCRF10B Designation DW Qualifiers:	ibutaries and wetlands, from the s Classifications Agriculture Aq Life Cold 1 Recreation E	Temperature °C D.O. (mg/L) D.O. (spawning)	he confluence with the Biological DM CS-I acute	MWAT CS-I chronic 6.0 7.0	ational Forest boundary. Inch of Middle Thompson Arsenic Arsenic(T) Cadmium Cadmium(T)	Mainstem of Middle Creek. Metals (ug/L) acute 340 TVS 5.0	chronic 0.02 TVS
ncluding all tr	ibutaries and wetlands, from the s Classifications Agriculture Aq Life Cold 1 Recreation E	Temperature °C D.O. (mg/L) D.O. (spawning) pH	he confluence with the Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0	ational Forest boundary. Inch of Middle Thompson Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III	Mainstem of Middle Creek. Metals (ug/L) acute 340 TVS 5.0	chronic 0.02 TVS TVS
ncluding all tr COUCRF10B Designation DW Qualifiers:	ibutaries and wetlands, from the s Classifications Agriculture Aq Life Cold 1 Recreation E	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	he confluence with the Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150	ational Forest boundary. Inch of Middle Thompson Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T)	Mainstem of Middle Creek. Metals (ug/L) acute 340 TVS 5.0 50	chronic 0.02 TVS TVS
ncluding all tr COUCRF10B Designation DW Qualifiers: Other: Femporary M Arsenic(chron	ibutaries and wetlands, from the s Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply lodification(s): ic) = hybrid	Temperature °C D.O. (mg/L) D.O. (spawning) pH	he confluence with the Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0	ational Forest boundary. Inch of Middle Thompson Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI	Mainstem of Middle Creek. Metals (ug/L) acute 340 TVS 5.0 50 TVS	chronic 0.02 TVS TVS TVS
COUCRF10B Designation DW Qualifiers: Other: Emporary Marsenic(chron	ibutaries and wetlands, from the s Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	he confluence with the Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150	ational Forest boundary. Inch of Middle Thompson Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	Mainstem of Middle Creek. Metals (ug/L) acute 340 TVS 5.0 50	chronic 0.02 TVS TVS TVS TVS
couding all tr coucrF10B Designation DW Qualifiers: Description	ibutaries and wetlands, from the s Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply lodification(s): ic) = hybrid	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	he confluence with the Biological DM CS-I acute 6.5 - 9.0 ic (mg/L)	MWAT CS-I chronic 6.0 7.0 150 126	ational Forest boundary. Inch of Middle Thompson Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron	Mainstem of Middle Creek. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS	chronic 0.02 TVS TVS TVS TVS WS
Designation Designation Designation DW Designation DW Dualifiers: Demograpy Marsenic(chrone) Expiration Data Uranium(acu	ibutaries and wetlands, from the s Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Iodification(s): iic) = hybrid te of 12/31/2024	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	he confluence with the Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute	MWAT CS-I chronic 6.0 7.0 150 126 chronic	ational Forest boundary. Inch of Middle Thompson Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T)	Mainstem of Middle Creek. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS	chronic 0.02 TVS TVS TVS TVS TVS TVS TVS
Designation Designation DW Qualifiers: Designation DW Arsenic(chron Expiration Data Uranium(acu	ibutaries and wetlands, from the s Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Iodification(s): iic) = hybrid te of 12/31/2024 tte) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan	he confluence with the Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS	ational Forest boundary. Inch of Middle Thompson Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead	Mainstem of Middle Creek. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS TVS	chronic chronic 0.02 TVS TVS TVS TVS WS
Designation Designation DW Qualifiers: Designation DW Arsenic(chron Expiration Data Uranium(acu	ibutaries and wetlands, from the s Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Iodification(s): iic) = hybrid te of 12/31/2024 tte) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron	he confluence with the Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75	ational Forest boundary. Inch of Middle Thompson Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T)	Mainstem of Middle Creek. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS TVS 50 TVS TVS TVS 50	chronic chronic 0.02 TVS TVS TVS SVS 1000 TVS
Designation Designation Designation DW Designation DW Dualifiers: Demograpy Marsenic(chrone) Expiration Data Uranium(acu	ibutaries and wetlands, from the s Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Iodification(s): iic) = hybrid te of 12/31/2024 tte) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride	he confluence with the Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250	ational Forest boundary. Inch of Middle Thompson Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	Mainstem of Middle Creek. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS TVS 50 TVS TVS TVS	chronic chronic 0.02 TVS TVS TVS WS 1000 TVS/WS
Designation Designation Designation DW Designation DW Dualifiers: Demograpy Marsenic(chrone) Expiration Data Uranium(acu	ibutaries and wetlands, from the s Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Iodification(s): iic) = hybrid te of 12/31/2024 tte) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine	he confluence with the Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019	MWAT CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011	ational Forest boundary. Inch of Middle Thompson Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	Mainstem of Middle Creek. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS TVS 50 TVS TVS TVS 50	chronic 0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01
Designation Designation DW Qualifiers: Designation DW Arsenic(chron Expiration Data Uranium(acu	ibutaries and wetlands, from the s Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Iodification(s): iic) = hybrid te of 12/31/2024 tte) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide	he confluence with the Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250	ational Forest boundary. Inch of Middle Thompson Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	Mainstem of Middle Creek. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS	chronic chronic 0.02 TVS TVS TVS WS 1000 TVS/WS 0.01 150
Designation Designation Designation DW Designation DW Dualifiers: Demograpy Marsenic(chrone) Expiration Data Uranium(acu	ibutaries and wetlands, from the s Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Iodification(s): iic) = hybrid te of 12/31/2024 tte) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate	he confluence with the Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019	MWAT CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011	ational Forest boundary. Inch of Middle Thompson Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	Mainstem of Middle Creek. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS 50 TVS	chronic chronic 0.02 TVS TVS TVS TVS TVS TVS TVS TV
Designation Designation Designation DW Designation DW Dualifiers: Demograpy Marsenic(chrone) Expiration Data Uranium(acu	ibutaries and wetlands, from the s Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Iodification(s): iic) = hybrid te of 12/31/2024 tte) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide	he confluence with the Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005	MWAT CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011	ational Forest boundary. Inch of Middle Thompson Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	Mainstem of Middle Creek. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS	chronic chronic 0.02 TVS TVS TVS WS 1000 TVS TVS TVS TVS 0.01 150
Designation Designation Designation DW Designation DW Dualifiers: Demograpy Marsenic(chrone) Expiration Data Uranium(acu	ibutaries and wetlands, from the s Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Iodification(s): iic) = hybrid te of 12/31/2024 tte) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate	DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011	ational Forest boundary. Inch of Middle Thompson Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	Mainstem of Middle Creek. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS 50 TVS TVS 50 TVS	chronic chronic 0.02 TVS TVS TVS TVS TVS TVS TVS TV
Designation Designation DW Qualifiers: Designation DW Arsenic(chron Expiration Data Uranium(acu	ibutaries and wetlands, from the s Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Iodification(s): iic) = hybrid te of 12/31/2024 tte) = See 33.5(3) for details.	D.O. (mg/L) D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	he confluence with the Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011 0.05	ational Forest boundary. Inch of Middle Thompson Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	Mainstem of Middle Creek. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS 50 TVS	**Thompson Creation C
Designation Designation DW Qualifiers: Designation DW Arsenic(chron Expiration Data Uranium(acu	ibutaries and wetlands, from the s Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Iodification(s): iic) = hybrid te of 12/31/2024 tte) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	he confluence with the Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011 0.05	ational Forest boundary. Inch of Middle Thompson Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	Mainstem of Middle Creek. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS	**Thompson Creation C

All metals are dissolved unless otherwise noted. T = total recoverable

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

	nd reservoirs inbutary to the Roaning	Fork River within the Maroon Be	Ils/Snowmass, Holy (Cross, Ragge	eds, Collegiate Peaks and	Hunter/Fryingpan Wil	derness Areas.
COUCRF11	Classifications	Physical and	-	, 00	-	Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
OW	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
		chlorophyll a (ug/L)		8*	Chromium III(T)	50	
	(ug/L)(chronic) = applies only to	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
area.	ervoirs larger than 25 acres surface				Copper	TVS	TVS
	chronic) = applies only to lakes and er than 25 acres surface area.	Inorga	nic (mg/L)		Iron		WS
	te) = See 33.5(3) for details.	morga	acute	chronic	Iron(T)		1000
*Uranium(chro	onic) = See 33.5(3) for details.	Ammonio	TVS	TVS	Lead	TVS	TVS
*Temperature		Ammonia			Lead(T)	50	
DM and MWA Savage Lake,	T=CL,CLL from 1/1-3/31 Ivanhoe Lake	Boron		0.75	` '	TVS	TVS/WS
DM=CL and M	WAT=16.6 from 4/1-12/31	Chloride		250	Manganese	173	0.01
All others DM and MWA	T=CL,CLL from 4/1-12/31	Chlorine	0.019	0.011	Mercury(T)		
		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
	nd reservoirs tributary to the Roaring	1		11.			
COUCRF12	Classifications	Physical and		BANA/AT		Metals (ug/L)	ah na mi a
	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1 Recreation E	Temperature °C	varies*	varies* ^B	Arsenic	340	
	Recreation E		acute				
1				chronic	Arsenic(T)		0.02
	Water Supply	D.O. (mg/L)		6.0	Arsenic(T) Cadmium	TVS	0.02 TVS
Qualifiere		D.O. (spawning)			` '		TVS
Qualifiers:	Water Supply	D.O. (spawning) pH		6.0 7.0	Cadmium	TVS	TVS
Qualifiers:	Water Supply	D.O. (spawning) pH chlorophyll a (ug/L)		6.0 7.0 8*	Cadmium Cadmium(T)	TVS 5.0 50	TVS TVS
•	Water Supply DUWS*	D.O. (spawning) pH	 6.5 - 9.0	6.0 7.0	Cadmium Cadmium(T) Chromium III	TVS 5.0 	TVS TVS
Other:	Water Supply DUWS* odification(s):	D.O. (spawning) pH chlorophyll a (ug/L)	 6.5 - 9.0 	6.0 7.0 8*	Cadmium Cadmium(T) Chromium III Chromium III(T)	TVS 5.0 50	TVS TVS
Other: Temporary Mo	Water Supply DUWS* odification(s):	D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL)	 6.5 - 9.0 	6.0 7.0 8*	Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI	TVS 5.0 50 TVS	TVS TVS TVS TVS WS
Other: Temporary Monday Arsenic(chronic Expiration Date *chlorophyll a	Water Supply DUWS* odification(s): ic) = hybrid e of 12/31/2024 (ug/L)(chronic) = applies only to	D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL)	 6.5 - 9.0 	6.0 7.0 8*	Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	TVS 5.0 50 TVS TVS	TVS TVS TVS TVS
Other: Temporary Meansenic(chronic Expiration Date *chlorophyll a lakes and rese	Water Supply DUWS* odification(s): ic) = hybrid e of 12/31/2024	D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL)	 6.5 - 9.0 	6.0 7.0 8* 126	Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron	TVS 5.0 50 TVS TVS	TVS TVS TVS TVS WS
Other: Temporary Moderation Date *chlorophyll a lakes and researea. *Classification	Water Supply DUWS* odification(s): ic) = hybrid e of 12/31/2024 (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface : DUWS Applies only to Leonard	D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL)	 6.5 - 9.0 nic (mg/L) acute	6.0 7.0 8* 126	Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T)	TVS 5.0 50 TVS TVS	TVS TVS TVS TVS WS 1000
Other: Temporary Me Arsenic(chroni Expiration Date *chlorophyll a lakes and rese area. *Classification Thomas Rese a	Water Supply DUWS* odification(s): ic) = hybrid e of 12/31/2024 (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface : DUWS Applies only to Leonard and Wildcat Res	D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorga	 6.5 - 9.0 nic (mg/L) acute TVS	6.0 7.0 8* 126 chronic TVS	Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead	TVS 5.0 50 TVS TVS TVS	TVS TVS TVS TVS WS 1000
Other: Temporary Me Arsenic(chroni Expiration Date *chlorophyll a lakes and researea. *Classification Thomas Resear*Phosphorus(creservoirs larg	Water Supply DUWS* odification(s): ic) = hybrid e of 12/31/2024 (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface : DUWS Applies only to Leonard and Wildcat Res chronic) = applies only to lakes and er than 25 acres surface area.	D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorga Ammonia Boron	 6.5 - 9.0 nic (mg/L) acute TVS	6.0 7.0 8* 126 chronic TVS 0.75	Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T)	TVS 5.0 50 TVS TVS TVS 50	TVS TVS TVS WS 1000 TVS
Other: Temporary Management of the Arsenic (chronic Expiration Date *chlorophyll a lakes and researea. *Classification Thomas Researes. *Phosphorus (coreservoirs larges *Uranium (acute the Arsenium (acute t	Water Supply DUWS* odification(s): ic) = hybrid e of 12/31/2024 (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface : DUWS Applies only to Leonard and Wildcat Res chronic) = applies only to lakes and er than 25 acres surface area. te) = See 33.5(3) for details.	D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorga Ammonia Boron Chloride	6.5 - 9.0 nic (mg/L) acute TVS	6.0 7.0 8* 126 chronic TVS 0.75 250	Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	TVS 5.0 50 TVS TVS TVS 50 TVS 50 TVS	TVS TVS TVS WS 1000 TVS TVSWS
Other: Temporary Me Arsenic(chroni Expiration Date *chlorophyll a lakes and researea. *Classification Thomas Resea *Phosphorus(coreservoirs larg *Uranium(acut *Uranium(chroni	Water Supply DUWS* odification(s): ic) = hybrid e of 12/31/2024 (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface : DUWS Applies only to Leonard and Wildcat Res chronic) = applies only to lakes and er than 25 acres surface area. te) = See 33.5(3) for details. onic) = See 33.5(3) for details.	D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorga Ammonia Boron Chloride Chlorine	6.5 - 9.0 nic (mg/L) acute TVS 0.019	6.0 7.0 8* 126 chronic TVS 0.75 250 0.011	Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	TVS 5.0 50 TVS TVS TVS 50 TVS	TVS TVS TVS WS 1000 TVS TVS/WS 0.01
Other: Temporary Meansenic(chronic Expiration Date *chlorophyll a lakes and researea. *Classification Thomas Res a *Phosphorus(creservoirs larg *Uranium(acut *Uranium(chrostrum) *Uranium(chrostrum) *Temperature*	Water Supply DUWS* odification(s): ic) = hybrid e of 12/31/2024 (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface i: DUWS Applies only to Leonard and Wildcat Res chronic) = applies only to lakes and ter than 25 acres surface area. te) = See 33.5(3) for details. onic) = See 33.5(3) for details.	D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorga Ammonia Boron Chloride Chlorine Cyanide	6.5 - 9.0 nic (mg/L) acute TVS 0.019 0.005	6.0 7.0 8* 126 chronic TVS 0.75 250 0.011	Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	TVS 5.0 50 TVS TVS TVS 50 TVS TVS	TVS TVS TVS WS 1000 TVS TVS/WS 0.01
Other: Temporary Mr. Arsenic(chroni Expiration Date *chlorophyll a lakes and researea. *Classification Thomas Researenvoirs larg *Uranium(acut *Uranium(chroni *Temperature DM and MWA' Ruedi Reservoir	Water Supply DUWS* odification(s): ic) = hybrid e of 12/31/2024 (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface : DUWS Applies only to Leonard and Wildcat Res chronic) = applies only to lakes and er than 25 acres surface area. te) = See 33.5(3) for details. enic) = See 33.5(3) for details. = T=CL,CLL from 1/1-3/31 bir	D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorga Ammonia Boron Chloride Chlorine Cyanide Nitrate	6.5 - 9.0 nic (mg/L) acute TVS 0.019 0.005	6.0 7.0 8* 126 chronic TVS 0.75 250 0.011	Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	TVS 5.0 50 TVS TVS TVS 50 TVS 50 TVS TVS 50 TVS	TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS
Other: Temporary Mr. Arsenic(chroni Expiration Date *chlorophyll a lakes and researea. *Classification Thomas Researenvoirs larg *Uranium(acut *Uranium(chroni *Temperature DM and MWA' Ruedi Reservoir	Water Supply DUWS* odification(s): ic) = hybrid e of 12/31/2024 (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface i: DUWS Applies only to Leonard and Wildcat Res chronic) = applies only to lakes and uer than 25 acres surface area. te) = See 33.5(3) for details. et) = See 33.5(3) for details. = T=CL,CLL from 1/1-3/31	D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorga Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	6.5 - 9.0 nic (mg/L) acute TVS 0.019 0.005 10	6.0 7.0 8* 126 chronic TVS 0.75 250 0.011 0.05	Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	TVS 5.0 50 TVS TVS TVS 50 TVS 50 TVS 50 TVS TVS	TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 1000 TVS
Other: Temporary Meansenic (chronic Expiration Date *chlorophyll a lakes and researea. *Classification Thomas Researes. *Phosphorus (reservoirs larg *Uranium (chroic *Temperature DM and MWA' Ruedi Reservo DM=22.4 and All others	Water Supply DUWS* odification(s): ic) = hybrid e of 12/31/2024 (ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface : DUWS Applies only to Leonard and Wildcat Res chronic) = applies only to lakes and er than 25 acres surface area. te) = See 33.5(3) for details. enic) = See 33.5(3) for details. = T=CL,CLL from 1/1-3/31 bir	D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorga Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	6.5 - 9.0 nic (mg/L) acute TVS 0.019 0.005 10	6.0 7.0 8* 126 chronic TVS 0.75 250 0.011 0.05 0.025*	Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	TVS 5.0 50 TVS TVS TVS 50 TVS 50 TVS TVS TVS TVS TVS	TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 100

All metals are dissolved unless otherwise noted. T = total recoverable

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

i. An inbutalle	es to the North Platte and Encampn	nent Rivers, including all wetlands, v	within the Mount Zirke	el, Never Su	mmer, and Platte River Wi	ilderness Areas.	
COUCNP01	Classifications	Physical and	Biological		ı	Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
OW	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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
		chlorophyll a (mg/m²)		150	Chromium III(T)	50	
•	te) = See 33.5(3) for details.	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
*Uranium(chro	onic) = See 33.5(3) for details.				Copper	TVS	TVS
		Inorgan	ic (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
		Phosphorus		0.11	Selenium	TVS	TVS
		Sulfate		WS	Silver	TVS	TVS(tr)
		Sulfide		0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
	1	all tributaries and wetlands, from th	e source to the Colo	rado/Wyomii	ng border, except for those	tributaries included i	in Segment 1.
COUCNP02	Classifications	Physical and	Piological				
		,				Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Designation Reviewable	Aq Life Cold 1	Temperature °C	DM CS-I	CS-I	Arsenic	acute 340	
-	Aq Life Cold 1 Recreation P	Temperature °C	DM CS-I acute	CS-I chronic	Arsenic Arsenic(T)	acute 340 	0.02
Reviewable	Aq Life Cold 1	Temperature °C D.O. (mg/L)	DM CS-I acute	CS-I chronic 6.0	Arsenic Arsenic(T) Cadmium	acute 340 TVS	
Reviewable Qualifiers:	Aq Life Cold 1 Recreation P	Temperature °C D.O. (mg/L) D.O. (spawning)	DM CS-I acute	CS-I chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T)	acute 340 TVS 5.0	0.02 TVS
Reviewable	Aq Life Cold 1 Recreation P	Temperature °C D.O. (mg/L) D.O. (spawning) pH	DM CS-I acute 6.5 - 9.0	CS-I chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III	acute 340 TVS 5.0	0.02 TVS
Reviewable Qualifiers: Other:	Aq Life Cold 1 Recreation P Water Supply	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	CS-I acute 6.5 - 9.0	CS-I chronic 6.0 7.0 150	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T)	acute 340 TVS 5.0 50	 0.02 TVS TVS
Reviewable Qualifiers: Other: *Uranium(acu	Aq Life Cold 1 Recreation P Water Supply tte) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH	DM CS-I acute 6.5 - 9.0	CS-I chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI	acute 340 TVS 5.0 50 TVS	 0.02 TVS TVS
Reviewable Qualifiers: Other: *Uranium(acu	Aq Life Cold 1 Recreation P Water Supply	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	CS-I acute 6.5 - 9.0	CS-I chronic 6.0 7.0 150	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	acute 340 TVS 5.0 50 TVS TVS	0.02 TVS TVS TVS TVS
Reviewable Qualifiers: Other: *Uranium(acu	Aq Life Cold 1 Recreation P Water Supply tte) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	CS-I acute 6.5 - 9.0	CS-I chronic 6.0 7.0 150 205	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron	acute 340 TVS 5.0 50 TVS	0.02 TVS TVS TVS TVS WS
Reviewable Qualifiers: Other: *Uranium(acu	Aq Life Cold 1 Recreation P Water Supply tte) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	DM CS-I acute 6.5 - 9.0 sic (mg/L) acute	CS-I chronic 6.0 7.0 150 205	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T)	acute 340 TVS 5.0 50 TVS TVS	0.02 TVS TVS TVS TVS WS 1000
Reviewable Qualifiers: Other: *Uranium(acu	Aq Life Cold 1 Recreation P Water Supply tte) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan	DM CS-I acute 6.5 - 9.0 sic (mg/L) acute TVS	CS-I chronic 6.0 7.0 150 205 chronic TVS	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead	acute 340 TVS 5.0 50 TVS TVS TVS	0.02 TVS TVS TVS WS 1000 TVS
Reviewable Qualifiers: Other: *Uranium(acu	Aq Life Cold 1 Recreation P Water Supply tte) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron	DM CS-I acute 6.5 - 9.0 sic (mg/L) acute TVS	CS-I chronic 6.0 7.0 150 205 chronic TVS 0.75	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T)	acute 340 TVS 5.0 50 TVS TVS TVS TVS 50	0.02 TVS TVS TVS TVS WS 1000 TVS
Reviewable Qualifiers: Other: *Uranium(acu	Aq Life Cold 1 Recreation P Water Supply tte) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride	DM CS-I acute 6.5 - 9.0 sic (mg/L) acute TVS	CS-I chronic 6.0 7.0 150 205 chronic TVS 0.75 250	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS 50 TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVSWS
Reviewable Qualifiers: Other: *Uranium(acu	Aq Life Cold 1 Recreation P Water Supply tte) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine	DM CS-I acute 6.5 - 9.0 sic (mg/L) acute TVS 0.019	CS-I chronic 6.0 7.0 150 205 chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01
Reviewable Qualifiers: Other: *Uranium(acu	Aq Life Cold 1 Recreation P Water Supply tte) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide	DM CS-I acute 6.5 - 9.0 sic (mg/L) acute TVS 0.019 0.005	CS-I chronic 6.0 7.0 150 205 chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVSAWS 0.01 150
Reviewable Qualifiers: Other: *Uranium(acu	Aq Life Cold 1 Recreation P Water Supply tte) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate	DM CS-I acute 6.5 - 9.0 sic (mg/L) acute TVS 0.019 0.005 10	CS-I chronic 6.0 7.0 150 205 Chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS TVS	0.02 TVS TVS TVS WS 1000 TVS TVSWS 0.01 150 TVS
Reviewable Qualifiers: Other: *Uranium(acu	Aq Life Cold 1 Recreation P Water Supply tte) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	DM CS-I acute 6.5 - 9.0 sic (mg/L) acute TVS 0.019 0.005 10	CS-I chronic 6.0 7.0 150 205 chronic TVS 0.75 250 0.011 0.05	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS	0.02 TVS TVS TVS WS 1000 TVS TVSMS 0.01 150 TVS 1000
Reviewable Qualifiers: Other: *Uranium(acu	Aq Life Cold 1 Recreation P Water Supply tte) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	DM CS-I acute 6.5 - 9.0 sic (mg/L) acute TVS 0.019 0.005 10	CS-I chronic 6.0 7.0 150 205 chronic TVS 0.75 250 0.011 0.05 0.11	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS TVS	0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 1000 TVS
Reviewable Qualifiers: Other: *Uranium(acu	Aq Life Cold 1 Recreation P Water Supply tte) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	DM CS-I acute 6.5 - 9.0 sic (mg/L) acute TVS 0.019 0.005 10	CS-I chronic 6.0 7.0 150 205 chronic TVS 0.75 250 0.011 0.05 0.11 WS	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium Silver	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS TVS	0.02 TVS TVS TVS WS 1000 TVS TVSWS 0.01 150 TVS 100 TVS TVS TVS(tr)
Reviewable Qualifiers: Other: *Uranium(acu	Aq Life Cold 1 Recreation P Water Supply tte) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	DM CS-I acute 6.5 - 9.0 sic (mg/L) acute TVS 0.019 0.005 10	CS-I chronic 6.0 7.0 150 205 chronic TVS 0.75 250 0.011 0.05 0.11	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS TVS	0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 1000 TVS

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

COUCNP03	Classifications	Physical and	Biological		<u> </u>	/letals (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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
		chlorophyll a (mg/m²)		150*	Chromium III(T)	50	
	(mg/m²)(chronic) = applies only ilities listed at 33.5(4).	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
	chronic) = applies only above the				Copper	TVS	TVS
acilities listed Jranium(acu	te) = See 33.5(3) for details.	Inorgan	ic (mg/L)		Iron		WS
,	onic) = See 33.5(3) for details.		acute	chronic	lron(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
a. All tributar a and 7b.	ies to the North Platte River, including	ng all wetlands, from the source to	the Colorado/Wyomii	ng border, e	xcept for those tributaries in	ncluded in Segments	s 1, 4b, 5a, 5
OUCNP04A	Classifications	Physical and	Biological		N	/letals (ug/L)	
esignation	Agriculture		DM	MWAT		acute	chronic
eviewable	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
ualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
ther:		рН	6.5 - 9.0		Chromium III		TVS
emporary M	odification(s):	chlorophyll a (mg/m²)		150	Chromium III(T)	50	
rsenic(chron		E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
xpiration Dat	te of 12/31/2024				Copper	TVS	TVS
Iranium/aau	te) = See 33.5(3) for details.	Inorgan	ic (mg/L)		Iron		WS
•	onic) = See 33.5(3) for details.		acute	chronic	Iron(T)		1000
n annum (criir	offic) - See 33.3(3) for details.	Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron		0.75	Lead(T)	50	
		Chloride		250	Manganese	TVS	TVS/WS
		011	0.010	0.011	Mercury(T)		0.01
		Chlorine	0.019				
		Cyanide	0.019		Molybdenum(T)		150
					Molybdenum(T) Nickel	TVS	150 TVS
		Cyanide	0.005				
		Cyanide Nitrate	0.005 10		Nickel	TVS	TVS

Sulfate

Sulfide

t = total tr = trout sc = sculpin D.O. = dissolved oxygen
DM = daily maximum

MWAT = maximum weekly average temperature See 33.6 for further details on applied standards.

WS

0.002

Silver

Zinc

Uranium

TVS

varies*

TVS(tr)

varies*

TVS

4b. Mainstem of the Illinois River, including all tributaries and wetlands, from a point immediately below the confluence with Indian Creek to the confluence with the Michigan River, except for specific listings in Segments 7a and 7b. Mainstem of the Canadian River from below 12E Road (40.720033, -106.088912) to the confluence with the North Platte River. All tributaries to the Canadian River, including wetlands, which enter the mainstem from the southwest from below 12E Road to the confluence with the North Platte River.

COUCNP04B	Classifications	Physical and	Biological		N	letals (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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
Temporary M	odification(s):	chlorophyll a (mg/m²)		150	Chromium III(T)	50	
Arsenic(chroni		E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
	e of 12/31/2024				Copper	TVS	TVS
		Inorgani	ic (mg/L)		Iron		WS
•	te) = See 33.5(3) for details.	_	acute	chronic	Iron(T)		1000
Oranium(cmc	onic) = See 33.5(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)
					I Inches i cons	varies*	varies*
		Sulfide		0.002	Uranium	varies	varios
		Sulfide		0.002	Zinc	TVS	TVS
5a. Mainstem	of the Michigan River from the so	Sulfide urce to a point immediately below the			Zinc		
	of the Michigan River from the so		confluence with the		Zinc Michigan River.		
COUCNP05A	-	urce to a point immediately below the	confluence with the		Zinc Michigan River.	TVS	
COUCNP05A Designation	Classifications	urce to a point immediately below the	confluence with the	North Fork N	Zinc Michigan River.	TVS	TVS
COUCNP05A Designation	Classifications Agriculture	urce to a point immediately below the Physical and	confluence with the Biological DM	North Fork M	Zinc Michigan River.	TVS Metals (ug/L) acute	TVS
COUCNP05A Designation	Classifications Agriculture Aq Life Cold 1	urce to a point immediately below the Physical and	confluence with the Biological DM CS-I	North Fork M MWAT CS-I	Zinc Michigan River. N Arsenic	TVS Metals (ug/L) acute 340	TVS chronic
COUCNP05A Designation Reviewable	Classifications Agriculture Aq Life Cold 1 Recreation E	Temperature °C	confluence with the Biological DM CS-I acute	MWAT CS-I chronic	Zinc Michigan River. N Arsenic Arsenic(T)	TVS fletals (ug/L) acute 340	chronic 0.02
	Classifications Agriculture Aq Life Cold 1 Recreation E	Temperature °C D.O. (mg/L)	confluence with the Biological DM CS-I acute	MWAT CS-I chronic 6.0	Zinc Michigan River. N Arsenic Arsenic(T) Cadmium	TVS fletals (ug/L) acute 340 TVS	chronic 0.02 TVS
COUCNP05A Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Temperature °C D.O. (mg/L) D.O. (spawning)	confluence with the Biological DM CS-I acute	MWAT CS-I chronic 6.0 7.0	Zinc Michigan River. N Arsenic Arsenic(T) Cadmium Cadmium(T)	TVS Metals (ug/L) acute 340 TVS 5.0	chronic 0.02 TVS
COUCNP05A Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s):	Temperature °C D.O. (mg/L) D.O. (spawning) pH	confluence with the Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0	Zinc Michigan River. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III	TVS Metals (ug/L) acute 340 TVS 5.0	chronic 0.02 TVS TVS
COUCNP05A Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chroni	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s):	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	confluence with the Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150	Zinc Michigan River. N Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T)	TVS Metals (ug/L) acute 340 TVS 5.0 50	chronic 0.02 TVS TVS
COUCNP05A Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chroni Expiration Dat	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	confluence with the Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150	Zinc Michigan River. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI	TVS # details (ug/L) acute 340 TVS 5.0 50 TVS	Chronic 0.02 TVS TVS TVS
COUCNP05A Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chroni Expiration Dat	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	confluence with the Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150	Zinc Aichigan River. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	TVS details (ug/L) acute 340	chronic 0.02 TVS TVS TVS TVS
COUCNP05A Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chroni Expiration Dat	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	confluence with the Biological DM CS-I acute 6.5 - 9.0 ic (mg/L)	MWAT CS-I chronic 6.0 7.0 150 126	Zinc Michigan River. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron	TVS # detals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS	chronic 0.02 TVS TVS TVS WS
COUCNP05A Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chroni Expiration Dat	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani	confluence with the Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute	MWAT CS-I chronic 6.0 7.0 150 126 chronic	Zinc Aichigan River. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T)	TVS # detals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS	TVS chronic 0.02 TVS TVS TVS WS 1000
COUCNP05A Designation Reviewable Qualifiers: Other: Femporary M Arsenic(chroni Expiration Dat	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia	confluence with the Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS	Zinc Aichigan River. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead	TVS # detals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS	TVS chronic
COUCNP05A Designation Reviewable Qualifiers: Other: Femporary M Arsenic(chroni Expiration Dat	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron	confluence with the Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75	Zinc Aichigan River. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T)	TVS detals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50	TVS chronic 0.02 TVS TVS TVS WS 1000 TVS
COUCNP05A Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chroni Expiration Dat	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron Chloride	confluence with the Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250	Zinc Aichigan River. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	TVS acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS 50 TVS	TVS chronic 0.02 TVS TVS TVS WS 1000 TVS TVS/WS
COUCNP05A Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chroni Expiration Dat	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine	confluence with the Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250 0.011	Zinc Aichigan River. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	TVS fletals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS	TVS chronic 0.02 TVS TVS TVS TVS TVS TVS S 1000 TVS TVS/WS 0.01
COUCNP05A Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chroni Expiration Dat	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide Nitrate	confluence with the Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005	MWAT CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011	Zinc Aichigan River. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	TVS fletals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS	TVS chronic 0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS
COUCNP05A Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chroni Expiration Dat	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	confluence with the Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011 0.05	Zinc Aichigan River. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	TVS detals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS 50 TVS TVS TVS	TVS chronic 0.02 TVS
COUCNP05A Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chroni Expiration Dat	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	confluence with the Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011 0.05 0.11	Zinc Aichigan River. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	TVS Interest (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS TVS	TVS chronic 0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 100 TVS
COUCNP05A Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chroni Expiration Dat	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 te) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	confluence with the Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011 0.05	Zinc Aichigan River. Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	TVS detals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS 50 TVS TVS TVS	TVS chronic 0.02 TVS

All metals are dissolved unless otherwise noted. T = total recoverable

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

5b. Mainstem	of the Michigan River from a point in	mmediately below the confluence w	ith the North Fork ivii	cnigan Rive	r to the confluence with the	North Platte River.	
	Classifications	Physical and				Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	
	Recreation N		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 Mo	adification(s):	chlorophyll a (mg/m²)			Chromium III(T)	50	
Arsenic(chroni		E. coli (per 100 mL)		630	Chromium VI	TVS	TVS
	e of 12/31/2024				Copper	TVS	TVS
•		Inorgan	ic (mg/L)		Iron		WS
"Phosphorus(c facilities listed	chronic) = applies only above the at 33.5(4).	. 0	acute	chronic	lron(T)		1000
*Uranium(acut	te) = See 33.5(3) for details.	Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chro	onic) = See 33.5(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)
							varies*
		LSulfide		0.002	Uranium	varies	varies
		Sulfide		0.002	Uranium Zinc	varies*	TVS
6. Mainstem of	f Pinkham Creek from the Routt Nat						
	f Pinkham Creek from the Routt Nat		ence with the North		Zinc		
COUCNP06		tional Forest boundary to the conflu	ence with the North		Zinc	TVS	
COUCNP06 Designation	Classifications	tional Forest boundary to the conflu	ence with the North	Platte River.	Zinc	TVS	TVS
COUCNP06 Designation Reviewable	Classifications Agriculture	tional Forest boundary to the conflu Physical and	ence with the North Biological DM	Platte River.	Zinc	TVS Metals (ug/L) acute	TVS
COUCNP06 Designation Reviewable	Classifications Agriculture Aq Life Cold 1	tional Forest boundary to the conflu Physical and	ence with the North Biological DM CS-I	Platte River. MWAT CS-I	Zinc	TVS Metals (ug/L) acute 340	chronic
COUCNP06 Designation Reviewable	Classifications Agriculture Aq Life Cold 1 Recreation N	tional Forest boundary to the conflu Physical and Temperature °C	ence with the North Biological DM CS-I acute	MWAT CS-I chronic	Arsenic Arsenic(T)	TVS Metals (ug/L) acute 340	chronic 0.02
COUCNP06 Designation Reviewable	Classifications Agriculture Aq Life Cold 1 Recreation N	tional Forest boundary to the conflu Physical and Temperature °C D.O. (mg/L)	ence with the North Biological DM CS-I acute	MWAT CS-I chronic 6.0	Arsenic Arsenic(T) Cadmium	TVS Metals (ug/L) acute 340 TVS	chronic 0.02 TVS
COUCNP06 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply	Temperature °C D.O. (mg/L) D.O. (spawning)	Biological DM CS-I acute	MWAT CS-I chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T)	TVS Metals (ug/L) acute 340 TVS 5.0	chronic 0.02 TVS
COUCNP06 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH	DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III	TVS #letals (ug/L) acute 340 TVS 5.0	chronic 0.02 TVS TVS
COUCNP06 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T)	TVS #letals (ug/L) acute 340 TVS 5.0 50	chronic 0.02 TVS TVS
COUCNP06 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T)	TVS #letals (ug/L) acute 340 TVS 5.0 50 TVS	Chronic 0.02 TVS TVS TVS
COUCNP06 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	TVS acute 340 TVS 5.0 50 TVS TVS	TVS chronic 0.02 TVS TVS TVS TVS
COUCNP06 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	DM CS-I acute 6.5 - 9.0 ic (mg/L)	MWAT CS-I chronic 6.0 7.0 630	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	TVS #letals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS	chronic 0.02 TVS TVS TVS TVS WS
COUCNP06 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	DM CS-I acute 6.5 - 9.0 ic (mg/L) acute	MWAT CS-I chronic 6.0 7.0 630 chronic	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T)	TVS #letals (ug/L) acute 340 TVS 5.0 50 TVS TVS	TVS chronic 0.02 TVS TVS TVS WS 1000
COUCNP06 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan	ence with the North Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 630 chronic TVS	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead	TVS #letals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS TVS	TVS chronic 0.02 TVS TVS TVS TVS WS 1000 TVS
COUCNP06 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron	ence with the North Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 630 chronic TVS 0.75	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T)	TVS #letals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50	TVS chronic 0.02 TVS TVS TVS WS 1000 TVS
COUCNP06 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride	lence with the North Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 630 chronic TVS 0.75 250	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	TVS acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS TVS 50 TVS	TVS chronic 0.02 TVS TVS TVS WS 1000 TVS TVSWS
COUCNP06 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine	ence with the North Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019	MWAT CS-I chronic 6.0 7.0 630 chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	TVS #letals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS	TVS chronic 0.02 TVS TVS TVS WS 1000 TVS TVSWS 0.01
COUCNP06 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide	ence with the North Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005	MWAT CS-I chronic 6.0 7.0 630 chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	TVS #letals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS	TVS chronic 0.02 TVS TVS TVS WS 1000 TVS TVSWS 0.01 150
COUCNP06 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate	ence with the North Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 630 chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	TVS #letals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS TVS	TVS chronic 0.02 TVS TVS STVS WS 1000 TVS TVSWS 0.01 150 TVS
COUCNP06 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	ence with the North Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 630 chronic TVS 0.75 250 0.011 0.05	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	TVS #letals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS TVS TVS TVS	TVS chronic 0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 100
COUCNP06 Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation N Water Supply te) = See 33.5(3) for details.	Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	ence with the North Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 630 Chronic TVS 0.75 250 0.011 0.05 0.11	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	TVS #letals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS	TVS chronic 0.02 TVS TVS TVS WS 1000 TVS TVSMS 0.01 150 TVS 100 TVS

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

	of Government Creek from the borer 31) Reservoir.	undary of the Colorado State Forest	to the confluence with	n the Canad	lian River. Mainstem of Spr	ing Creek from the so	ource to Spring
-	Classifications	Physical and	Biological		T .	/letals (ug/L)	
Designation	Agriculture	,	DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	
	Recreation N	-	acute	chronic	Arsenic(T)		7.6
Qualifiers:		D.O. (mg/L)		6.0	Cadmium	TVS	TVS
Fish Ingestio	on Standards Apply	D.O. (spawning)		7.0	Chromium III	TVS	TVS
Other:		pH	6.5 - 9.0		Chromium III(T)		100
		chlorophyll a (mg/m²)			Chromium VI	TVS	TVS
,	ite) = See 33.5(3) for details.	E. coli (per 100 mL)		630	Copper	TVS	TVS
*Uranium(chr	onic) = See 33.5(3) for details.				Iron(T)		1000
		Inorgan	ic (mg/L)		Lead	TVS	TVS
			acute	chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)		0.01
		Boron		0.75	Molybdenum(T)		150
		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		0.11			
		Sulfate					
		Sulfide		0.002			
7b. Mainstem	of Spring Creek from the outlet of	Spring Creek (Number 31) Reservoi	r to the confluence wi	th the Illinoi	s River.		
COUCNP07B	Classifications	Physical and	Biological		ı	letals (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)		7.6
Qualifiers:	Otam damela Amerika	D.O. (mg/L)		6.0	Cadmium	TVS	TVS
rish ingestio	on Standards Apply	D.O. (spawning)		7.0	Chromium III	TVS	TVS
Other:		pH	6.5 - 9.0		Chromium III(T)		100
*I Ironium/oou	ite) = See 33.5(3) for details.	chlorophyll a (mg/m²)		150	Chromium VI	TVS	TVS
,	onic) = See 33.5(3) for details.	E. coli (per 100 mL)		126	Copper	TVS	TVS
Oranium(om	orlic) = See 33.3(3) for details.				Iron(T)		1000
		Inorgan	ic (mg/L)		Lead	TVS	TVS
			acute	chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)		0.01
				0.75	Molybdenum(T)		150
		Boron		0.75	,===(.,		
		Boron Chloride		0.75	Nickel	TVS	TVS
						TVS TVS	TVS TVS
		Chloride			Nickel	TVS	
		Chloride Chlorine	0.019	0.011	Nickel Selenium	TVS TVS	TVS
		Chloride Chlorine Cyanide	0.019 0.005	0.011 	Nickel Selenium Silver	TVS TVS TVS	TVS TVS(tr)
		Chloride Chlorine Cyanide Nitrate	0.019 0.005 100	0.011 	Nickel Selenium Silver Uranium	TVS TVS TVS varies*	TVS TVS(tr) varies*
		Chloride Chlorine Cyanide Nitrate Nitrite	0.019 0.005 100	0.011 0.05	Nickel Selenium Silver Uranium	TVS TVS TVS varies*	TVS TVS(tr) varies*

t = total tr = trout sc = sculpin D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 33.6 for further details on applied standards.

8. All lakes an	d reservoirs tributary to the North Pla	tte and Encampment Rivers wit	hin the Mount Zirkel, N	lever Summ	er, and Platte River Wilder	ness Areas.	
COUCNP08	Classifications	Physical an	d Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
OW	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
		chlorophyll a (ug/L)		8*	Chromium III(T)	50	
	(ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
area.	9	(1)			Copper	TVS	TVS
	chronic) = applies only to lakes and er than 25 acres surface area.	Inorga	anic (mg/L)		Iron		WS
_	te) = See 33.5(3) for details.	morga	acute	chronic	Iron(T)		1000
*Uranium(chro	onic) = See 33.5(3) for details.	Ammonio	TVS	TVS	Lead	TVS	TVS
*Temperature		Ammonia			Lead(T)	50	
	T=CL,CLL from 1/1-3/31 wer Big Twin Lake, Katherine Lake	Boron		0.75	Manganese	TVS	TVS/WS
DM=CL and M	WAT=16.6 from 4/1-12/31	Chloride		250	· ·		0.01
All others DM and MWA	T=CL,CLL from 4/1-12/31	Chlorine	0.019	0.011	Mercury(T)		
		Cyanide	0.005		Molybdenum(T)		150 T) (0
		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
9. All lakes and	d reservoirs tributary to the North Pla	·		s in Segment		Matala (vall.)	
	Classifications	Physical an	d Biological DM	MWAT		Metals (ug/L)	chronic
Designation	Agriculture Ag Life Cold 1	T 00		varies* B	A	acute	
Reviewable	Recreation E	Temperature °C	varies*		Arsenic	340	
	Water Supply	D.O. (*** **/!)	acute	chronic	Arsenic(T)		0.02
Qualifiers:	таке сарр.у	D.O. (mg/L)		6.0	Cadmium	TVS	TVS
		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
chlorophyll a	(ug/L)(chronic) = applies only to	chlorophyll a (ug/L)		8	Chromium III(T)	50	
lakes and rese	ervoirs larger than 25 acres surface	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
area. *Phosphorus(d	chronic) = applies only to lakes and				Copper	TVS	TVS
	er than 25 acres surface area.	Inorga	anic (mg/L)		Iron		WS
	te) = See 33.5(3) for details.		acute	chronic	Iron(T)		1000
*Temperature	onic) = See 33.5(3) for details.	Ammonia	TVS	TVS	Lead	TVS	TVS
	r temperature standards.	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*
		1					
					Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.

T = total recoverable

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

1 All tributarie	es to the Yampa River including all	wetlands, which are within the Mou	int Zirkel Flat Tons a	nd Sarvis C	reek Wilderness Areas		
COUCYA01	Classifications	Physical and	· · · · · · · · · · · · · · · · · · ·			Metals (ug/L)	
Designation	Agriculture	,	DM	MWAT		acute	chronic
OW	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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
		chlorophyll a (mg/m²)		150	Chromium III(T)	50	
*Uranium(acu	te) = See 33.5(3) for details.	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
*Uranium(chro	onic) = See 33.5(3) for details.	,			Copper	TVS	TVS
		Inorgan	ic (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
		Phosphorus		0.11	Selenium	TVS	TVS
		Sulfate		WS	Silver	TVS	TVS(tr)
		Sulfide		0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)
2a. Mainstem	of the Yampa River from the conflu	lence of the Bear River and Phillips	Creek to a point imn	nediately abo			TVS/TVS(sc)
	of the Yampa River from the conflu Classifications	ence of the Bear River and Phillips Physical and		nediately abo			TVS/TVS(sc)
	Classifications Agriculture			nediately abo		ak Creek.	TVS/TVS(sc)
COUCYA02A	Classifications Agriculture Aq Life Cold 1		Biological			dak Creek. Metals (ug/L)	
COUCYA02A Designation	Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and	Biological DM	MWAT	ove the confluence with O	Metals (ug/L)	
COUCYA02A Designation Reviewable	Classifications Agriculture Aq Life Cold 1	Physical and	Biological DM CS-I	MWAT CS-I	ove the confluence with O	Metals (ug/L)	chronic
COUCYA02A Designation	Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C D.O. (mg/L) D.O. (spawning)	Biological DM CS-I acute	MWAT CS-I chronic	Arsenic Arsenic(T)	Metals (ug/L) acute 340	chronic 0.02
COUCYA02A Designation Reviewable	Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH	Biological DM CS-I acute	MWAT CS-I chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III	Metals (ug/L) acute 340 TVS	chronic 0.02
COUCYA02A Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation E	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	Biological DM CS-I acute	MWAT CS-I chronic 6.0 7.0 150*	Arsenic Arsenic(T) Cadmium Cadmium(T)	Metals (ug/L) acute 340 TVS 5.0 50	chronic 0.02 TVS
COUCYA02A Designation Reviewable Qualifiers: Other:	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH	Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III	Metals (ug/L) acute 340 TVS 5.0	chronic 0.02 TVS
COUCYA02A Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150*	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III(T)	Metals (ug/L) acute 340 TVS 5.0 50	chronic 0.02 TVS TVS TVS TVS
COUCYA02A Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Date *chlorophyll a	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply codification(s): ic) = hybrid te of 12/31/2024 (mg/m²)(chronic) = applies only	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150*	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron	Metals (ug/L) acute 340 TVS 5.0 50 TVS	chronic 0.02 TVS TVS TVS WS
COUCYA02A Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a above the faci	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply codification(s): ic) = hybrid te of 12/31/2024 (mg/m²)(chronic) = applies only litties listed at 33.5(4).	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150*	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron	Ask Creek. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS	chronic 0.02 TVS TVS TVS WS 1000
COUCYA02A Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a above the faci *Phosphorus(facilities listed	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Individual Supply Individual Supply Individual Supplies only Supplies Supplies only Supplies	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L)	MWAT CS-I chronic 6.0 7.0 150* 126 chronic TVS	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead	Acute	chronic 0.02 TVS TVS TVS WS
COUCYA02A Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a above the faci *Phosphorus(facilities listed *Uranium(acu	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4). te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute	MWAT CS-I chronic 6.0 7.0 150* 126 chronic TVS 0.75	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T)	Acute Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50	chronic 0.02 TVS
COUCYA02A Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a above the faci *Phosphorus(facilities listed *Uranium(acu	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Individual Supply Individual Supply Individual Supplies only Supplies Supplies only Supplies	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150* 126 chronic TVS 0.75 250	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	Acute	Chronic 0.02 TVS
COUCYA02A Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a above the faci *Phosphorus(facilities listed *Uranium(acu	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4). te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019	MWAT CS-I chronic 6.0 7.0 150* 126 chronic TVS 0.75	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	Acute Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50	chronic 0.02 TVS TVS SUS TVS TVS TVS TVS TVS TVS TVS TVS TVS TV
COUCYA02A Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a above the faci *Phosphorus(facilities listed *Uranium(acu	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4). te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150* 126 chronic TVS 0.75 250	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	Ask Creek. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS	Chronic 0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150
COUCYA02A Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a above the faci *Phosphorus(facilities listed *Uranium(acu	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4). te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019	MWAT CS-I chronic 6.0 7.0 150* 126 chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	Ask Creek. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS TVS TVS TVS TV	Chronic 0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS
COUCYA02A Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a above the faci *Phosphorus(facilities listed *Uranium(acu	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4). te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005	MWAT CS-I chronic 6.0 7.0 150* 126 chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	Ask Creek. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS	Chronic 0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS
COUCYA02A Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a above the faci *Phosphorus(facilities listed *Uranium(acu	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4). te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150* 126 chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	Ask Creek. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS TV	Chronic 0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS
COUCYA02A Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a above the faci *Phosphorus(facilities listed *Uranium(acu	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4). te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150* 126 Chronic TVS 0.75 250 0.011 0.05	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	Ask Creek. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS TV	Chronic 0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS
COUCYA02A Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat *chlorophyll a above the faci *Phosphorus(facilities listed *Uranium(acu	Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid te of 12/31/2024 (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4). te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150* 126 Chronic TVS 0.75 250 0.011 0.05 0.11*	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	Ask Creek. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS	Chronic 0.02 TVS TVS TVS TVS SUS 1000 TVS TVS/WS 0.01 150 TVS 100 TVS

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

2b. Mainstem	of the Yampa River from a point imm	rediately above the confluence will	n Oak Creek to a bo	Jini immediai	ely below the confidence	with Eiknead Creek	
	Classifications	Physical and	· ·			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
Temporary Mo	odification(s)	chlorophyll a (mg/m²)			Chromium III(T)	50	
Arsenic(chroni		E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
temperature(M	(WAT) = current				Copper	TVS	TVS
conditions*	e of 12/31/2024	Inorgan	ic (mg/L)		Iron		WS
Expiration Date	e 01 12/31/2024		acute	chronic	Iron(T)		1000
*Uranium(acut	te) = See 33.5(3) for details.	Ammonia	TVS	TVS	Lead	TVS	TVS
•	onic) = See 33.5(3) for details.	Boron		0.75	Lead(T)	50	
	r temperature standards.	Chloride		250	Manganese	TVS	TVS/WS
*TempMod: tei	mperature = applies from 7/1-9/30 D. Adopted 6/10/2019	Chlorine	0.019	0.011	Mercury(T)		0.01
anu 11/1-11/30	J. Adopted 0/10/2019	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)
		Canalo					
		Sulfide		0.002	Uranium	varies*	varies*
3. All tributarie	es to the Yampa River, including all w	Sulfide			Zinc	TVS	TVS/TVS(sc)
of the Bear Riv	es to the Yampa River, including all w ver, including all tributaries and wetla Classifications	Sulfide vetlands, from the source to above	the confluence with t Tops Wilderness A	n the Elk Rive	Zinc er, except for specific listin	TVS gs in Segments 1 a	TVS/TVS(sc)
of the Bear Riv	ver, including all tributaries and wetla	Sulfide vetlands, from the source to above ands, from the boundary of the Fla	the confluence with t Tops Wilderness A	n the Elk Rive	Zinc er, except for specific listin	TVS gs in Segments 1 a River.	TVS/TVS(sc)
of the Bear Riv COUCYA03 Designation	ver, including all tributaries and wetla	Sulfide vetlands, from the source to above ands, from the boundary of the Fla	the confluence with t Tops Wilderness A Biological	n the Elk Rive Area to the co	Zinc er, except for specific listin	TVS gs in Segments 1 a River. Metals (ug/L)	TVS/TVS(sc)
of the Bear Riv COUCYA03 Designation	ver, including all tributaries and wetland Classifications Agriculture	Sulfide /etlands, from the source to above ands, from the boundary of the Fla Physical and	the confluence with t Tops Wilderness A Biological DM	n the Elk Rive Area to the co	Zinc er, except for specific listin influence with the Yampa	TVS gs in Segments 1 a River. Metals (ug/L) acute	TVS/TVS(sc) and 4-7. Mainstem chronic
of the Bear Riv COUCYA03 Designation	ver, including all tributaries and wetla Classifications Agriculture Aq Life Cold 1	Sulfide /etlands, from the source to above ands, from the boundary of the Fla Physical and	the confluence with t Tops Wilderness A Biological DM CS-I	n the Elk Rive Area to the co MWAT CS-I	Zinc er, except for specific listin influence with the Yampa Arsenic	TVS gs in Segments 1 a River. Metals (ug/L) acute 340	TVS/TVS(sc) and 4-7. Mainstem chronic
of the Bear Riv COUCYA03 Designation Reviewable	ver, including all tributaries and wetla Classifications Agriculture Aq Life Cold 1 Recreation E	Sulfide /etlands, from the source to above ands, from the boundary of the Fla Physical and Temperature °C	the confluence with t Tops Wilderness A Biological DM CS-I acute	MWAT CS-I chronic	Zinc er, except for specific listin influence with the Yampa Arsenic Arsenic(T)	TVS gs in Segments 1 a River. Metals (ug/L) acute 340	TVS/TVS(sc) and 4-7. Mainstem chronic 0.02
of the Bear Riv COUCYA03 Designation Reviewable Qualifiers:	ver, including all tributaries and wetla Classifications Agriculture Aq Life Cold 1 Recreation E	Sulfide vetlands, from the source to above ands, from the boundary of the Fla Physical and Temperature °C D.O. (mg/L)	the confluence with t Tops Wilderness A Biological DM CS-I acute	MWAT CS-I chronic 6.0 7.0	Zinc er, except for specific listin onfluence with the Yampa Arsenic Arsenic(T) Cadmium	TVS gs in Segments 1 a River. Metals (ug/L) acute 340 TVS	rvs/rvs(sc) and 4-7. Mainstem chronic 0.02 rvs
of the Bear Riv COUCYA03 Designation Reviewable Qualifiers: Other:	ver, including all tributaries and wetla Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Sulfide Vetlands, from the source to above ands, from the boundary of the Fla Physical and Temperature °C D.O. (mg/L) D.O. (spawning)	the confluence with t Tops Wilderness A Biological DM CS-I acute	MWAT CS-I chronic 6.0 7.0	Zinc er, except for specific listin influence with the Yampa Arsenic Arsenic(T) Cadmium Cadmium(T)	TVS gs in Segments 1 a River. Metals (ug/L) acute 340 TVS 5.0	rvs/rvs(sc) and 4-7. Mainstem chronic 0.02 rvs
of the Bear Riv COUCYA03 Designation Reviewable Qualifiers: Other: Temporary Mo	ver, including all tributaries and wetla Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Sulfide Vetlands, from the source to above ands, from the boundary of the Fla Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH	the confluence with t Tops Wilderness A Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0	Zinc er, except for specific listin influence with the Yampa Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III	TVS gs in Segments 1 a River. Metals (ug/L) acute 340 TVS 5.0	rvs/rvs(sc) and 4-7. Mainstem chronic 0.02 rvs rvs
of the Bear Riv COUCYA03 Designation Reviewable Qualifiers: Other: Temporary Mo Arsenic(chroni	ver, including all tributaries and wetla Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Sulfide Vetlands, from the source to above ands, from the boundary of the Fla Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	the confluence with t Tops Wilderness A Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150*	Zinc er, except for specific listin influence with the Yampa Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T)	TVS gs in Segments 1 a River. Metals (ug/L) acute 340 TVS 5.0 50	rvs/rvs(sc) and 4-7. Mainstem chronic 0.02 rvs rvs
of the Bear Riv COUCYA03 Designation Reviewable Qualifiers: Other: Temporary Moders Arsenic(chronic) Expiration Date	ver, including all tributaries and wetla Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024	Sulfide Vetlands, from the source to above ands, from the boundary of the Fla Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	the confluence with t Tops Wilderness A Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150*	Zinc er, except for specific listin influence with the Yampa Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI	TVS gs in Segments 1 a River. Metals (ug/L) acute 340 TVS 5.0 50 TVS	rvs/rvs(sc) rnd 4-7. Mainstem chronic 0.02 rvs rvs rvs
of the Bear Riv COUCYA03 Designation Reviewable Qualifiers: Other: Temporary Moderanic (chroni Expiration Date above the facil	ver, including all tributaries and wetla Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 (mg/m²)(chronic) = applies only littles listed at 33.5(4).	Sulfide Vetlands, from the source to above ands, from the boundary of the Fla Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	the confluence with t Tops Wilderness A Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 150*	Zinc er, except for specific listin influence with the Yampa Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	TVS gs in Segments 1 a River. Metals (ug/L) acute 340 TVS 5.0 50 TVS	rvs/rvs(sc) and 4-7. Mainstem chronic 0.02 rvs rvs rvs rvs rvs
of the Bear Riv COUCYA03 Designation Reviewable Qualifiers: Other: Temporary Mo Arsenic(chroni Expiration Date *chlorophyll a above the facil *Phosphorus(c	ver, including all tributaries and wetla Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the	Sulfide Vetlands, from the source to above ands, from the boundary of the Fla Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	the confluence with t Tops Wilderness A Biological DM CS-I acute 6.5 - 9.0 ic (mg/L)	MWAT CS-I chronic 6.0 7.0 150* 126	Zinc er, except for specific listin influence with the Yampa Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron	TVS gs in Segments 1 a River. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS	rvs/rvs(sc) and 4-7. Mainstem chronic 0.02 rvs rvs rvs rvs ws
of the Bear Riv COUCYA03 Designation Reviewable Qualifiers: Other: Temporary Moderanic (chronic Expiration Date to the facility above the facility facilities listed	ver, including all tributaries and wetla Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the	Sulfide Petlands, from the source to above ands, from the boundary of the Fla Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	the confluence with t Tops Wilderness A Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute	MWAT CS-I chronic 6.0 7.0 150* 126 chronic	Zinc er, except for specific listin influence with the Yampa Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T)	TVS gs in Segments 1 a River. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS	rvs/rvs(sc) and 4-7. Mainstem chronic 0.02 rvs rvs rvs rvs ws 1000
of the Bear Riv COUCYA03 Designation Reviewable Qualifiers: Other: Temporary Mo Arsenic(chroni Expiration Date *chlorophyll a above the facil *Phosphorus(c facilities listed *Uranium(acut	ver, including all tributaries and wetlate Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4).	Sulfide Petlands, from the source to above ands, from the boundary of the Flatends, from the Supplementary of the Su	the confluence with t Tops Wilderness A Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150* 126 chronic TVS	Zinc or, except for specific listin influence with the Yampa Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead	TVS gs in Segments 1 a River. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS TVS	rvs/rvs(sc) and 4-7. Mainstem chronic 0.02 rvs rvs rvs rvs ws 1000
of the Bear Riv COUCYA03 Designation Reviewable Qualifiers: Other: Temporary Mo Arsenic(chroni Expiration Date *chlorophyll a above the facil *Phosphorus(c facilities listed *Uranium(acut	ver, including all tributaries and wetlate Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4). ie) = See 33.5(3) for details.	Sulfide Petlands, from the source to above ands, from the boundary of the Flaten Physical and Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron	the confluence with t Tops Wilderness A Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150* 126 chronic TVS 0.75	Zinc er, except for specific listin influence with the Yampa Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T)	TVS gs in Segments 1 a River. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS TVS 50	TVS/TVS(sc) and 4-7. Mainstem chronic 0.02 TVS TVS TVS WS 1000 TVS
of the Bear Riv COUCYA03 Designation Reviewable Qualifiers: Other: Temporary Mo Arsenic(chroni Expiration Date *chlorophyll a above the facil *Phosphorus(c facilities listed *Uranium(acut	ver, including all tributaries and wetlate Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4). ie) = See 33.5(3) for details.	Sulfide Avetlands, from the source to above ands, from the boundary of the Flatends, from the Flatends, from the Boundary of	the confluence with t Tops Wilderness A Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150* 126 chronic TVS 0.75 250	Zinc er, except for specific listin influence with the Yampa Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	TVS gs in Segments 1 a River. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS TVS 50	TVS/TVS(sc) and 4-7. Mainstem chronic 0.02 TVS TVS S TVS WS 1000 TVS TVS/WS
of the Bear Riv COUCYA03 Designation Reviewable Qualifiers: Other: Temporary Mo Arsenic(chroni Expiration Date *chlorophyll a above the facil *Phosphorus(c facilities listed *Uranium(acut	ver, including all tributaries and wetlate Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4). ie) = See 33.5(3) for details.	Sulfide Jetlands, from the source to above ands, from the boundary of the Fla Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine	the confluence with t Tops Wilderness A Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019	MWAT CS-I chronic 6.0 7.0 150* 126 chronic TVS 0.75 250 0.011	Zinc er, except for specific listin influence with the Yampa Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	TVS gs in Segments 1 a River. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS 50 TVS	TVS/TVS(sc) and 4-7. Mainstem chronic 0.02 TVS TVS WS 1000 TVS TVS/WS 0.01
of the Bear Riv COUCYA03 Designation Reviewable Qualifiers: Other: Temporary Mo Arsenic(chroni Expiration Date *chlorophyll a above the facil *Phosphorus(c facilities listed *Uranium(acut	ver, including all tributaries and wetlate Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4). ie) = See 33.5(3) for details.	Sulfide Jetlands, from the source to above ands, from the boundary of the Fla Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide	the confluence with t Tops Wilderness A Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005	MWAT CS-I chronic 6.0 7.0 150* 126 chronic TVS 0.75 250 0.011	Zinc er, except for specific listin influence with the Yampa Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	TVS gs in Segments 1 a River. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS 50 TVS TVS	TVS/TVS(sc) and 4-7. Mainstem chronic 0.02 TVS TVS WS 1000 TVS TVS/WS 0.01 150
of the Bear Riv COUCYA03 Designation Reviewable Qualifiers: Other: Temporary Mac Arsenic(chroni Expiration Date *chlorophyll a above the facil *Phosphorus(c facilities listed *Uranium(acut	ver, including all tributaries and wetlate Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4). ie) = See 33.5(3) for details.	Sulfide Petlands, from the source to above ands, from the boundary of the Flatends, from the Flatend	the confluence with t Tops Wilderness A Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150* 126 Chronic TVS 0.75 250 0.011 0.05	Zinc or, except for specific listin influence with the Yampa Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	TVS gs in Segments 1 a River. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS	TVS/TVS(sc) and 4-7. Mainstem chronic 0.02 TVS TVS S TVS WS 1000 TVS TVS/WS 0.01 150 TVS
of the Bear Riv COUCYA03 Designation Reviewable Qualifiers: Other: Temporary Mo Arsenic(chroni Expiration Date *chlorophyll a above the facil *Phosphorus(c facilities listed *Uranium(acut	ver, including all tributaries and wetlate Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4). ie) = See 33.5(3) for details.	Sulfide Petlands, from the source to above ands, from the boundary of the Flatends, from the Flatend	the confluence with t Tops Wilderness A Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150* 126 Chronic TVS 0.75 250 0.011	Zinc er, except for specific listin influence with the Yampa Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	TVS gs in Segments 1 a River. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS TVS 50 TVS TVS TVS 50 TVS	TVS/TVS(sc) and 4-7. Mainstem chronic 0.02 TVS TVS S TVS WS 1000 TVS TVS/WS 0.01 150 TVS
of the Bear Riv COUCYA03 Designation Reviewable Qualifiers: Other: Temporary Mo Arsenic(chroni Expiration Date *chlorophyll a above the facil *Phosphorus(c facilities listed *Uranium(acut	ver, including all tributaries and wetlate Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2024 (mg/m²)(chronic) = applies only lities listed at 33.5(4). chronic) = applies only above the at 33.5(4). ie) = See 33.5(3) for details.	Sulfide Petlands, from the source to above ands, from the boundary of the Flatends, from the Flatend	the confluence with t Tops Wilderness A Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150* 126 Chronic TVS 0.75 250 0.011 0.05 0.11*	Zinc er, except for specific listin influence with the Yampa Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	TVS gs in Segments 1 a River. Metals (ug/L) acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS 50 TVS TVS TVS TVS TVS TVS TVS	TVS/TVS(sc) and 4-7. Mainstem chronic 0.02 TVS TVS S TVS WS 1000 TVS TVS/WS 0.01 150 TVS 1000 TVS 1000 TVS

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

		таттр	a River Bas				
	of Little White Snake Creek from the s	source to the confluence with the	Yampa River.		ı		
COUCYA04	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 N		acute	chronic	Arsenic(T)		0.02-10 ^A
	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
*Phoenhorus/	chronic) = applies only above the	chlorophyll a (mg/m²)			Chromium III(T)	50	
facilities listed		E. coli (per 100 mL)		630	Chromium VI	TVS	TVS
*Uranium(acu	te) = See 33.5(3) for details.				Copper	TVS	TVS
*Uranium(chro	onic) = See 33.5(3) for details.	Inorgan	ic (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
		Phosphorus		0.11*	Selenium	TVS	TVS
		Sulfate		WS	Silver	TVS	TVS(tr)
		Sulfide		0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
	of Chimney Creek and Phillips Creek,	including all tributaries and wetla	nds, which are not or	National Fo	rest lands, from their sou	urces to the confluence	with the Yampa
River. COUCYA05	Classifications	Physical and	Biological			Metals (ug/L)	
Designation	Agriculture	1 Hydrour und	DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	
	Water Supply	Tomporataro o	acute	chronic	Arsenic(T)		0.02
	Recreation P	D.O. (mg/L)		6.0	Cadmium	TVS	TVS
Qualifiers:	<u> </u>	D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
		chlorophyll a (mg/m²)		150	Chromium III(T)	50	
Temporary M		E. coli (per 100 mL)		205	Chromium VI	TVS	TVS
Arsenic(chron	•	E. con (per 100 me)		200	Copper	TVS	TVS
Expiration Dat	te of 12/31/2024	Inches	:- (/I)		Iron	1 1 1 1	WS
*Uranium(acu	te) = See 33.5(3) for details.	morgan	ic (mg/L)	ohronio	Iron(T)		1000
*Uranium(chro	onic) = See 33.5(3) for details.	A i -	acute	chronic	Lead	TVS	TVS
		Ammonia	TVS	TVS	Lead(T)	50	
		Boron		0.75	Manganese	TVS	TVS/WS
		Chloride		250	Mercury(T)	1 V S	0.01
		Chlorine	0.019	0.011	Molybdenum(T)		150
		Cyanide	0.005		Nickel	TVS	TVS
		Nitrate	10	0.05			
		Nitrite		0.05	Nickel(T)	 TVC	100
		Phosphorus		0.11	Selenium	TVS	TVS
		Sulfate		WS	Silver	TVS	TVS(tr)
		Sulfide		0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

assifications riculture Life Cold 1 creation E ater Supply ication(s): = hybrid f 12/31/2024 = See 33.5(3) for details.) = See 33.5(3) for details.	s and wetlands, from the source to Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgar Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	Biological DM CS-I acute 6.5 - 9.0 sic (mg/L) acute TVS 0.019 0.005 10	MWAT CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250 0.011	1	### Acute ### Ac	Chronic 0.02 TVS
Life Cold 1 creation E ater Supply ication(s): = hybrid f 12/31/2024 = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	CS-I acute 6.5 - 9.0 sic (mg/L) acute TVS 0.019 0.005 10	CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011	Arsenic Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS
Life Cold 1 creation E ater Supply ication(s): = hybrid f 12/31/2024 = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	acute 6.5 - 9.0 sic (mg/L) acute TVS 0.019 0.005 10	chronic 6.0 7.0 150 126 chronic TVS 0.75 250 0.011	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS
ication(s): = hybrid f 12/31/2024 = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	acute 6.5 - 9.0 sic (mg/L) acute TVS 0.019 0.005 10	chronic 6.0 7.0 150 126 chronic TVS 0.75 250 0.011	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS	TVS TVS TVS TVS WS 1000 TVS TVS/WS
ication(s): = hybrid f 12/31/2024 = See 33.5(3) for details.	D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	6.5 - 9.0 sic (mg/L) acute TVS 0.019 0.005 10	7.0 150 126 chronic TVS 0.75 250 0.011	Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	TVS 5.0 50 TVS TVS TVS 50 TVS	TVS TVS TVS TVS WS 1000 TVS TVS/WS
= hybrid f 12/31/2024 = See 33.5(3) for details.	D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	6.5 - 9.0 nic (mg/L) acute TVS 0.019 0.005 10	7.0 150 126 chronic TVS 0.75 250 0.011	Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	5.0 50 TVS TVS TVS 50 TVS	TVS TVS TVS WS 1000 TVS TVSWS
= hybrid f 12/31/2024 = See 33.5(3) for details.	pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgar Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	nic (mg/L) acute TVS 0.019 0.005 10	150 126 chronic TVS 0.75 250 0.011	Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	TVS TVS TVS TVS TVS TVS TVS TVS	TVS TVS TVS WS 1000 TVS TVSWS
= hybrid f 12/31/2024 = See 33.5(3) for details.	chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgar Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	nic (mg/L) acute TVS 0.019 0.005 10	126 chronic TVS 0.75 250 0.011	Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	TVS TVS TVS 50 TVS	TVS TVS WS 1000 TVS TVS/WS
= hybrid f 12/31/2024 = See 33.5(3) for details.	E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	acute TVS 0.019 0.005 10	126 chronic TVS 0.75 250 0.011	Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	TVS TVS TVS 50 TVS	TVS WS 1000 TVS TVS/WS
f 12/31/2024 = See 33.5(3) for details.	Inorgar Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	acute TVS 0.019 0.005 10	chronic TVS 0.75 250 0.011	Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	TVS TVS 50 TVS	TVS WS 1000 TVS TVS/WS
= See 33.5(3) for details.	Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	acute TVS 0.019 0.005 10	TVS 0.75 250 0.011	Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	 TVS 50 TVS	WS 1000 TVS TVS/WS
* *	Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	acute TVS 0.019 0.005 10	TVS 0.75 250 0.011	Iron(T) Lead Lead(T) Manganese Mercury(T)	 TVS 50 TVS	1000 TVS TVS/WS
) = See 33.5(3) for details.	Boron Chloride Chlorine Cyanide Nitrate Nitrite	TVS 0.019 0.005 10	TVS 0.75 250 0.011	Lead Lead(T) Manganese Mercury(T)	TVS 50 TVS	TVS TVS/WS
	Boron Chloride Chlorine Cyanide Nitrate Nitrite	0.019 0.005 10	0.75 250 0.011	Lead(T) Manganese Mercury(T)	50 TVS	TVS/WS
	Chloride Chlorine Cyanide Nitrate Nitrite	0.019 0.005 10	250 0.011 	Manganese Mercury(T)	TVS	TVS/WS
	Chlorine Cyanide Nitrate Nitrite	0.019 0.005 10 	0.011	Mercury(T)		
	Cyanide Nitrate Nitrite	0.005 10 				0.01
	Nitrate Nitrite	10		Morybaenum(1)		
	Nitrite			Niekel		150 TVC
				Nickel	TVS	TVS
	Phosphorus		0.05	Nickel(T)		100
			0.11	Selenium	TVS	TVS
	Sulfate		WS	Silver	TVS	TVS(tr)
	Sulfide		0.002	Uranium	varies*	varies*
				Zinc	TVS	TVS
ak Creek, including all tributaries assifications	s and wetlands, from a point 0.25 m		ad 27 (40.27	1		Yampa River.
	Physical and	DM	MWAT	IN IN	Metals (ug/L) acute	chronic
riculture Life Cold 1	T %O			A		
creation P	Temperature °C	CS-II acute	CS-II chronic	Arsenic	340	0.00
ater Supply	D.O. (m. m/l.)			Arsenic(T)	 T) (0	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	450*	Chromium III		TVS
ication(s):	chlorophyll a (mg/m²)		150*	Chromium III(T)	50	
= hybrid	E. coli (per 100 mL)		205	Chromium VI	TVS	TVS
f 12/31/2024				Copper	TVS	TVS
fic Variance(s):	Inorgan	nic (mg/L)		Iron		WS
ee Section 33.6(c)		acute	chronic	Iron(T)		1000
	Ammonia	TVS	TVS	Lead	TVS	TVS
6/30/2026	Boron		0.75	Lead(T)	50	
g/m²)(chronic) = applies only	Chloride		250	Manganese	TVS	TVS/WS
S USIEO AL 55 5(4)	Chlorine	0.019	0.011	Mercury(T)		0.01
onic) = applies only above the	Cyanide	0.005		Molybdenum(T)		150
onic) = applies only above the 33.5(4).	Nitrate	10		Nickel	TVS	TVS
onic) = applies only above the 33.5(4). = See 33.5(3) for details.	Nitrite		0.05	Nickel(T)		100
onic) = applies only above the 33.5(4).	Phosphorus		0.11*	Selenium	TVS	TVS
onic) = applies only above the 33.5(4). = See 33.5(3) for details.			WS	Silver	TVS	TVS(tr)
onic) = applies only above the 33.5(4). = See 33.5(3) for details.	Sulfate		0.002	Uranium	varies*	varies*
onic) = applies only above the 33.5(4). = See 33.5(3) for details.	Sulfate Sulfide			Zina	TVS	TVS
ee anc 6/3 g/m ²	Section 33.6(c) e for the Town of 30/2026 e)(chronic) = applies only sted at 33.5(4).) = applies only above the 6(4). ee 33.5(3) for details.	Section 33.6(c) e for the Town of 30/2026 Boron Chloride Chlorine Cyanide ee 33.5(3) for details. See 33.5(3) for details. Sulfate Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	Section 33.6(c) e for the Town of Ammonia TVS	Section 33.6(c) Example Section 33.6(c) Exercise Section 33.6(c)	Section 33.6(c) e for the Town of Ammonia TVS TVS Lead	Section 33.6(c) e for the Town of Ammonia TVS TVS Lead TVS

All metals are dissolved unless otherwise noted. T = total recoverable

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

COUCYA08	Classifications	Physical and B	iological		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	
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0		
Other:		pH	6.5 - 9.0		Chromium III		TVS	
emporary M	lodification(s):	chlorophyll a (mg/m²)		150*	Chromium III(T)	50		
Arsenic(chron	. ,	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS	
Expiration Da	te of 12/31/2024				Copper	TVS	TVS	
chlorophyll a	(mg/m²)(chronic) = applies only	Inorganic	(mg/L)		Iron		WS	
above the fac	ilities listed at 33.5(4).		acute	chronic	Iron(T)		1000	
	chronic) = applies only above the lat 33.5(4).	Ammonia	TVS	TVS	Lead	TVS	TVS	
facilities listed at 33.5(4). *Uranium(acute) = See 33.5(3) for details.		Boron		0.75	Lead(T)	50		
Uranium(chr	onic) = See 33.5(3) for details.	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/TVS(sc)	
9. Deleted.					1			
COUCYA09	Classifications	Physical and B	iological			Metals (ug/L)		
Designation	_		DM	MWAT		acute	chronic	
Qualifiers:			acute	chronic				
Other:								
		Inorganic	(mg/L)					
			acute	chronic				

sc = sculpin

		rampe	a itivei bus				
10. Deleted.		_					
COUCYA10	Classifications	Physical and I	Biological			Metals (ug/L)	
Designation	-		DM	MWAT		acute	chronic
Qualifiers:			acute	chronic			
			acute	CITIOTIC			
Other:		Inorgani	c (mg/L)				
			acute	chronic	1		
11. Fish Creel	k, including all tributaries and wetla	nds, from the source to County Road	d 27 (40.355559, -10	07.105131),	except for specific listin	igs in Segment 20a.	
COUCYA11	Classifications	Physical and I	Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	
	Water Supply		acute	chronic	Arsenic(T)		0.02
	Recreation N	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
Γemporary M	odification(s):	chlorophyll a (mg/m²)			Chromium III(T)	50	
Arsenic(chron	ic) = hybrid	E. coli (per 100 mL)		630	Chromium VI	TVS	TVS
Expiration Dat	e of 12/31/2024				Copper	TVS	TVS
'Uranium(acu	te) = See 33.5(3) for details.	Inorgani	c (mg/L)		Iron		WS
,	onic) = See 33.5(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	Manganese(T)		200
		Cyanide	0.005		Mercury(T)		0.01
		Nitrate	10		Molybdenum(T)		150
		Nitrite		0.05	Nickel	TVS	TVS
		Phosphorus		0.11	Nickel(T)	 T) (0	100
		Sulfate		WS	Selenium	TVS	TVS
		Sulfide		0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
		1			Zinc	TVS	TVS/TVS(sc)

D.O. = dissolved oxygen

COUCYA12	Classifications	Physical and	Biological		M	letals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	
	Recreation N		acute	chronic	Arsenic(T)		100
Qualifiers:		D.O. (mg/L)		6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)		7.0	Chromium III	TVS	TVS
		рН	6.5 - 9.0		Chromium III(T)		100
,	te) = See 33.5(3) for details.	chlorophyll a (mg/m²)			Chromium VI	TVS	TVS
'Uranium(chro	onic) = See 33.5(3) for details.	E. coli (per 100 mL)		630	Copper	TVS	TVS
					Iron(T)		1000
		Inorgan	Inorganic (mg/L)			TVS	TVS
			acute	chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Manganese(T)		200
		Boron		0.75	Mercury(T)		0.01
		Chloride			Molybdenum(T)		150
		Chlorine	0.019	0.011	Nickel	TVS	TVS
		Cyanide	0.005		Selenium	TVS	TVS
		Nitrate	100		Silver	TVS	TVS(tr)
		Nitrite		0.05	Uranium	varies*	varies*
		Phosphorus		0.11	Zinc	TVS	TVS
		Sulfate			1		
		Sulfide		0.002			

13a. Mainstem of Trout Creek, including all tributaries and wetlands, from the source to the headgate of Spruce Hill Ditch (40.317190, -107.005110), except for specific listings in Segments 1 and 20a. Mainstem of Middle Creek, including all tributaries and wetlands, from the source to County Road 27 (40.339183, -107.025533), except for specific listings in Segment 20a.

COUCYA13A	Classifications	Physical and Biol	ogical			Metals (ug/L)	
	Agriculture	i iiyeleai aila 2iei	DM	MWAT		acute	chronic
	Ag Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	
	Recreation E	Temperature 0	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 Mo	odification(s):	chlorophyll a (mg/m²)		150	Chromium III(T)	50	
Arsenic(chroni	c) = hybrid	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
Expiration Date	e of 12/31/2024				Copper	TVS	TVS
*! !===:=/==::	-) - C 22 E/2) for details	Inorganic (n	ng/L)		Iron		WS
,	e) = See 33.5(3) for details. nic) = See 33.5(3) for details.		acute	chronic	Iron(T)		1000
"Oranium(chro	nic) = See 33.5(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/TVS(sc)

13b. Mainstem of Foidel Creek, including all tributaries and wetlands, from the source to the confluence with Middle Creek. Mainstem of Fish Creek, including all tributaries and wetlands, from County Road 27 (40.355559, -107.105131) to the confluence with Trout Creek, except for specific listings in Segment 13g. Mainstem of Middle Creek, including all tributaries and wetlands, from County Road 27 (40.339183, -107.025533) to the confluence with Trout Creek.

COUCYA13B	Classifications	Physical and Biolo	ogical			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1	Temperature °C	varies*	varies*	Arsenic	340	
	Recreation E		acute	chronic	Arsenic(T)		7.6
Qualifiers:		D.O. (mg/L)		6.0	Cadmium	TVS	TVS
Other:	er:	D.O. (spawning)		7.0	Chromium III	TVS	TVS
		рН	6.5 - 9.0		Chromium III(T)		100
	ic) = See section 33.6(4) for assessment locations for Foidel	chlorophyll a (mg/m²)		150	Chromium VI	TVS	TVS
Creek and Mic		E. coli (per 100 mL)		126	Copper	TVS	TVS
,	te) = See 33.5(3) for details.				Iron(T)		1000
*Uranium(chro *Temperature	onic) = See 33.5(3) for details.	Inorganic (m	ıg/L)		Iron(T)		varies*
	r temperature standards.		acute	chronic	Lead	TVS	TVS
		Ammonia	TVS	TVS	Manganese	TVS	TVS
		Boron		0.75	Mercury(T)		0.01
		Chloride			Molybdenum(T)		150
		Chlorine	0.019	0.011	Nickel	TVS	TVS
		Cyanide	0.005		Selenium	TVS	TVS
		Nitrate	100		Silver	TVS	TVS
		Nitrite		0.05	Uranium	varies*	varies*
		Phosphorus		0.11	Zinc	TVS	TVS
		Sulfate					
		Sulfide		0.002			

13c. Mainstem of Trout Creek, including all tributaries and wetlands, from the headgate of Spruce Hill Ditch (40.317190, -107.005110) to the confluence with Fish Creek, except for specific listings in Segment 13b.

COUCYA13C	Classifications	Physical and Bi	ological		ı	/letals (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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		рН	6.5 - 9.0		Chromium III		TVS
Temporary Mo	odification(s):	chlorophyll a (mg/m²)		150	Chromium III(T)	50	
Arsenic(chroni	· /	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
Expiration Date	e of 12/31/2024				Copper	TVS	TVS
*I Iranium/acut	e) = See 33.5(3) for details.	Inorganic	(mg/L)		Iron		WS
,	nic) = See 33.5(3) for details.		acute	chronic	Iron(T)		1000
Oraniani(cino	(1110) - 000 00.0(0) 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

t = total tr = trout sc = sculpin

13d. Mainstem	of Dry Creek, including all tributaries		above the confluence		ple Gulch.		
	Classifications	Physical and B				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
Qualifiers:		D.O. (mg/L)		5.0	Cadmium	TVS	TVS
Other:		pН	6.5 - 9.0		Chromium III	TVS	TVS
Temporary Mo	odification(s):	chlorophyll a (mg/m²)		150	Chromium III(T)		100
	current condition 3/1 - 4/30	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
Expiration Date		Inorganic	(mg/L)		Copper	TVS	TVS
!ran/T\/ahrani	in) = Con postion 22 6(4) for		acute	chronic	Iron(T)		varies
	ic) = See section 33.6(4) for assessment locations.	Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(acut	e) = See 33.5(3) for details.	Boron		0.75	Manganese	TVS	TVS
*Uranium(chro	onic) = See 33.5(3) for details.	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		0.05	Silver	TVS	TVS
		Phosphorus		0.17	Uranium	varies*	varies*
		Sulfate			Zinc	TVS	TVS
		Sulfide		0.002			
13e. Mainstem	of Sage Creek, including all tributarie	es and wetlands, from the source to	the confluence wit	h the Yamp	a River.		
COUCYA13E	Classifications	Physical and B	iological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	
	Water Supply		acute	chronic	Arsenic(T)		0.02-10 A
	Recreation N	D.O. (mg/L)		5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0		Cadmium(T)	5.0	
Other:		chlorophyll a (mg/m²)			Chromium III		TVS
Temporary Mo	odification(s):	E. coli (per 100 mL)		630	Chromium III(T)	50	
Selenium(chro		Inorganic	(mg/L)		Chromium VI	TVS	TVS
conditions*	o of 12/21/2022		acute	chronic	Copper	TVS	TVS
Expiration Date	e of 12/31/2022	Ammonia	TVS	TVS	Iron		WS
	ic) = See section 33.6(4) for assessment locations for Sage	Boron		0.75	Iron(T)		1000
Creek.	assessment locations for dage	Chloride		250	Iron(T)		varies*
•	e) = See 33.5(3) for details.	Chlorine	0.019	0.011	Lead	TVS	TVS
	onic) = See 33.5(3) for details.	Cyanide	0.005		Lead(T)	50	
*TempMod: Se	elenium = Adopted 6/9/2014	Nitrate	10		Manganese	TVS	TVS/WS
		Nitrite		0.05	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
					∠inc	TVS	TVS

sc = sculpin

13f. Mainstem	of Trout Creek, including all tributa	ries and wetlands, from a point imme	diately below the o	onfluence wi	th Fish Creek to the conflu	ence with the Yampa	a River.
		Physical and B				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
Temporary Mo	odification(s):	chlorophyll a (mg/m²)		150	Chromium III(T)	50	
Arsenic(chroni	* *	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
	e of 12/31/2024				Copper	TVS	TVS
		Inorganio	(mg/L)		Iron		ws
	te) = See 33.5(3) for details.		acute	chronic	Iron(T)		1000
*Temperature	onic) = See 33.5(3) for details.	Ammonia	TVS	TVS	Lead	TVS	TVS
	or temperature standards.	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
13g. All tributa	aries to Fish Creek from the conflue	nce with Cow Camp Creek (40.39877	73, -107.016467) to	the confluer	nce with Trout Creek.		
COUCYA13G	Classifications	Physical and B	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
Qualifiers:		D.O. (mg/L)		5.0	Cadmium	TVS	TVS
Other:		рН	6.5 - 9.0		Chromium III	TVS	TVS
Temporary Mo	odification(s):	chlorophyll a (mg/m²)		150	Chromium III(T)		100
Selenium(chro	onic) = current	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
	e of 12/31/2022	Inorganio	(mg/L)		Copper	TVS	TVS
•			acute	chronic	Iron(T)		1000
,	te) = See 33.5(3) for details.	Ammonia	TVS	TVS	Lead	TVS	TVS
	onic) = See 33.5(3) for details.	Boron		0.75	Manganese	TVS	TVS
r empirioa: Se	elenium = Adopted 6/9/2014	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		0.05	Silver	TVS	TVS
		Phosphorus		0.17	Uranium	varies*	varies*
		Sulfate			Zinc	TVS	TVS

13h. Mainsterr	n of Dry Creek (near Hayden), inclu	uding all tributaries and wetlands, fro	m above the conflue	nce with Ter	nple Gulch to the confluen	ce with the Yampa Ri	ver.
COUCYA13H	Classifications	Physical and	Biological		ı	Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
JP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	
	Recreation E		acute	chronic	Arsenic(T)		7.6
Qualifiers:		D.O. (mg/L)		5.0	Cadmium	TVS	TVS
Other:		pH	6.5 - 9.0		Chromium III	TVS	TVS
		chlorophyll a (mg/m²)		150	Chromium III(T)		100
Uranium(acut	te) = See 33.5(3) for details.	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
Uranium(chro	onic) = See 33.5(3) for details.	Inorgan	ic (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		0.05	Silver	TVS	TVS
		Phosphorus		0.17	Uranium	varies*	varies*
		Sulfate			Zinc	TVS	TVS
		Sulfide		0.002			
13i. Mainstem	of Grassy Creek, including all tribu	utaries and wetlands, from the source	e to immediately abo	ve the conflu	uence with Scotchmans Gu	ılch.	
COUCYA13I	Classifications	Physical and	Biological		ı	Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
JP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	
	Recreation N		acute	chronic	Arsenic(T)		100
Qualifiers:		D.O. (mg/L)		5.0	Cadmium	TVS	TVS
Other:		pH	6.5 - 9.0		Chromium III	TVS	TVS
Temporary M	odification(s):	chlorophyll a (mg/m²)			Chromium III(T)		100
	current conditions*	E. coli (per 100 mL)		630	Chromium VI	TVS	TVS
, ,	e of 6/30/2023	Inorgan	ic (mg/L)		Copper	TVS	TVS
Selenium(chro	onic) = current		acute	chronic	Iron(T)		1000
conditions*	o of 12/21/2022	Ammonia	TVS	TVS	Lead	TVS	TVS
zxpiration Dat	e of 12/31/2022	Boron		0.75	Manganese	TVS	TVS
Uranium(acut	te) = See 33.5(3) for details.	Chloride			Mercury(T)		0.01
Uranium(chro	onic) = See 33.5(3) for details.	Chlorine	0.019	0.011	Molybdenum(T)		150
	on = applies to Grassy Creek.	Cyanide	0.005		Nickel	TVS	TVS
TempMod: Se	elenium = Adopted 6/9/2014	Nitrate	100		Selenium	TVS	TVS
		Nitrite		0.05	Silver	TVS	TVS
		Phosphorus		0.03	Uranium	varies*	varies*
		Sulfate			Zinc	TVS	TVS
		Sulfide		0.002			

sc = sculpin

13j. Mainstem	of Grassy Creek (near Hayden), inc	uding all tributaries and wetlands, from	above the confl	uence with S	Scotchmans Gulch to the o	confluence with the Ya	ampa River.	
COUCYA13J	Classifications	Physical and Biolo	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 N		acute	chronic	Arsenic(T)		100	
Qualifiers:		D.O. (mg/L)		5.0	Cadmium	TVS	TVS	
Other:		pH	6.5 - 9.0		Chromium III	TVS	TVS	
Temporary Mo	odification(s):	chlorophyll a (mg/m²)			Chromium III(T)		100	
Selenium(chro	• •	E. coli (per 100 mL)		630	Chromium VI	TVS	TVS	
conditions*		Inorganic (mg/L)			Copper	TVS	TVS	
Expiration Date	e of 12/31/2022		acute	chronic	Iron(T)		1000	
*Uranium(acut	e) = See 33.5(3) for details.	Ammonia	TVS	TVS	Lead	TVS	TVS	
*Uranium(chro	nic) = See 33.5(3) for details.	Boron		0.75	Manganese	TVS	TVS	
*TempMod: Se	elenium = Adopted 12/11/2017	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		0.05	Silver	TVS	TVS	
		Phosphorus		0.17	Uranium	varies*	varies*	
		Sulfate			Zinc	TVS	TVS	
		Sulfide		0.002				

14. Mainstem of Elkhead Creek, including all tributaries and wetlands, from the boundary of the National Forest lands, to a point immediately below the confluence with Calf Creek. Dry Fork Elkhead Creek, including all tributaries and wetlands, from the source to a point immediately below 80A Road (40.612676, -107.228533), which are not on National Forest lands.

COUCYA14	Classifications	Physical and	Biological			fletals (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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
		chlorophyll a (mg/m²)		150	Chromium III(T)	50	
•	te) = See 33.5(3) for details.	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
*Uranium(chro	onic) = See 33.5(3) for details.				Copper	TVS	TVS
		Inorgan	Inorganic (mg/L)				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

		aries and wetlands, from a point immedia etlands, from a point immediately below 8					
COUCYA15	Classifications	Physical and Biolog	ical		ı	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:		рН	6.5 - 9.0		Cadmium(T)	5.0	
Other:		chlorophyll a (mg/m²)		150	Chromium III		TVS
		E. coli (per 100 mL)		126	Chromium III(T)	50	
,	te) = See 33.5(3) for details.	Inorganic (mg	/L)		Chromium VI	TVS	TVS
*Uranium(chro	onic) = See 33.5(3) for details.		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		0.17	Nickel	TVS	TVS
		Sulfate		WS	Nickel(T)		100
		Sulfide		0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
16. Deleted.	T	T ==			1 -		
	Classifications	Physical and Biolog			<u> </u>	Metals (ug/L)	
Designation	-		DM	MWAT		acute	chronic
Qualifiers:			acute	chronic			
Other:					-		
		Inorganic (mg/	-		4		
			acute	chronic			

sc = sculpin

17. Deleted.					
COUCYA17	Classifications	Physical and Biological		Metals (ug/L)	
Designation		DM	MWAT	acute	chronic
	-				
Qualifiers:		acute	chronic		
Other:					
		Inorganic (mg/L)			
		acute	chronic		
		ittle Snake River, including all tributaries and wetlan e River, including all tributaries and wetlands, from t			
COUCYA18	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic

COUCYA18	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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		рН	6.5 - 9.0		Chromium III		TVS
		chlorophyll a (mg/m²)		150	Chromium III(T)	50	
,	te) = See 33.5(3) for details.	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
*Uranium(chro	onic) = See 33.5(3) for details.				Copper	TVS	TVS
		Inorgani	c (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	
		Phosphorus		0.11	Selenium	TVS	TVS
		Sulfate		WS	Silver	TVS	TVS(tr)
		Sulfide		0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)

ı ə. Ali tributarı	ies to the South Fork Little Shake	River and Middle Fork Little Snake R	River, including all we	etlands, whic	h are on National Forest	lands in Routt Count	y.
COUCYA19	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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
		chlorophyll a (mg/m²)		150	Chromium III(T)	50	
*Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorgan	ic (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
		Phosphorus		0.03	Selenium	TVS	TVS
		Sulfate		WS	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
		Sulfide		0.002	Zinc	TVS	TVS/TVS(sc)
lands, except f	ries to the Yampa River, including for specific listings in Segment 20th Classifications	all wetlands, from above the confluence. Physical and		er to below t	The confluence with Eikhe	ad Creek, which are	on National Forest
Designation						Metals (ug/L)	
<u> </u>	Agriculture		DM	MWAT		Metals (ug/L)	chronic
Reviewable	Agriculture Ag Life Cold 1	Temperature °C	DM CS-I	MWAT CS-I	Arsenic	acute	chronic
Reviewable	Agriculture Aq Life Cold 1 Recreation E	Temperature °C	CS-I	CS-I	Arsenic Arsenic(T)		
Reviewable	Aq Life Cold 1			CS-I chronic	Arsenic(T)	acute 340	0.02
Reviewable Qualifiers:	Aq Life Cold 1 Recreation E	D.O. (mg/L)	CS-I acute	CS-I chronic 6.0	Arsenic(T) Cadmium	acute 340 TVS	
Qualifiers:	Aq Life Cold 1 Recreation E	D.O. (mg/L) D.O. (spawning)	CS-I acute 	CS-I chronic 6.0 7.0	Arsenic(T) Cadmium Cadmium(T)	acute 340 TVS 5.0	 0.02 TVS
	Aq Life Cold 1 Recreation E	D.O. (mg/L) D.O. (spawning) pH	CS-I acute 6.5 - 9.0	CS-I chronic 6.0 7.0	Arsenic(T) Cadmium Cadmium(T) Chromium III	acute 340 TVS 5.0	 0.02 TVS TVS
Qualifiers: Other:	Aq Life Cold 1 Recreation E	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²)	CS-I acute 6.5 - 9.0	CS-I chronic 6.0 7.0 150	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T)	acute 340 TVS 5.0 50	 0.02 TVS TVS
Qualifiers: Other: *Uranium(acut	Aq Life Cold 1 Recreation E Water Supply	D.O. (mg/L) D.O. (spawning) pH	CS-I acute 6.5 - 9.0	CS-I chronic 6.0 7.0	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI	acute 340 TVS 5.0 50 TVS	0.02 TVS TVS TVS
Qualifiers: Other: *Uranium(acut	Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	CS-I acute 6.5 - 9.0	CS-I chronic 6.0 7.0 150	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	acute 340 TVS 5.0 50 TVS TVS	0.02 TVS TVS TVS TVS
Qualifiers: Other: *Uranium(acut	Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	CS-I acute 6.5 - 9.0 ic (mg/L)	CS-I chronic 6.0 7.0 150 126	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron	acute 340 TVS 5.0 50 TVS TVS	0.02 TVS TVS TVS TVS TVS WS
Qualifiers: Other: *Uranium(acut	Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	CS-I acute 6.5 - 9.0 ic (mg/L) acute	CS-I chronic 6.0 7.0 150 126	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T)	acute 340 TVS 5.0 50 TVS TVS	0.02 TVS TVS TVS TVS WS 1000
Qualifiers: Other: *Uranium(acut	Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan	CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	CS-I chronic 6.0 7.0 150 126 chronic TVS	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Chromium VI Copper Iron Iron(T)	acute 340 TVS 5.0 50 TVS TVS TVS	0.02 TVS TVS TVS TVS TVS TVS TVS WS 1000 TVS
Qualifiers: Other: *Uranium(acut	Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron	CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium VI Copper Iron Iron(T) Lead Lead(T)	acute 340 TVS 5.0 50 TVS TVS TVS 50	0.02 TVS TVS TVS TVS TVS WS 1000 TVS
Qualifiers: Other: *Uranium(acut	Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride	CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	CS-I chronic 6.0 7.0 150 126 chronic TVS 0.75 250	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium IVI Copper Iron Iron(T) Lead Lead(T) Manganese	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVSWS
Qualifiers: Other: *Uranium(acut	Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine	CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019	CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS	0.02 TVS TVS TVS TVS TVS TVS TVS TVS TVS 0.01
Qualifiers: Other: *Uranium(acut	Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide	CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005	CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVSWS 0.01
Qualifiers: Other: *Uranium(acut	Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate	CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS	0.02 TVS TVS TVS TVS TVS TVS US 1000 TVS TVSWS 0.01 150 TVS
Qualifiers: Other: *Uranium(acut	Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005	CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011 0.05	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS	0.02 TVS TVS TVS S TVS WS 1000 TVS TVSWS 0.01 150 TVS
Qualifiers: Other: *Uranium(acut	Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011 0.05 0.11	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 100 TVS
Qualifiers: Other: *Uranium(acut	Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011 0.05	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium Silver	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVSWS 0.01 150 TVS 100 TVS TVS TVS TVS
Qualifiers: Other: *Uranium(acut	Aq Life Cold 1 Recreation E Water Supply te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	CS-I chronic 6.0 7.0 150 126 Chronic TVS 0.75 250 0.011 0.05 0.11	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	acute 340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS TVS TVS TVS	0.02 TVS TVS TVS TVS WS 1000 TVS TVSMS 0.01 150 TVS 100 TVS

t = total tr = trout sc = sculpin D.O. = dissolved oxygen DM = daily maximum

COUCYA20B	Classifications	Physical and Biological			M	letals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	
	Recreation N		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: *Uranium(acute) = See 33.5(3) for details.		рН	6.5 - 9.0		Chromium III		TVS
		chlorophyll a (mg/m²)			Chromium III(T)	50	
		E. coli (per 100 mL)		630	Chromium VI	TVS	TVS
*Uranium(chro	onic) = See 33.5(3) for details.				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
		Phosphorus		0.11	Selenium	TVS	TVS
		Sulfate		WS	Silver	TVS	TVS(tr)
		Sulfide		0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

21. All lakes and reservoirs tributary to the Yampa River within the Mount Zirkel, Flat Tops and Sarvis Creek Wilderness Areas, except for those lakes and reservoirs included in Lower Yampa River Segment 28.

	3						
COUCYA21	Classifications	Physical and I	Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
OW	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
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
		chlorophyll a (ug/L)		8*	Chromium III(T)	50	
	(ug/L)(chronic) = applies only to ervoirs larger than 25 acres surface	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
area.	chronic) = applies only to lakes and				Copper	TVS	TVS
	er than 25 acres surface area.	Inorgani	c (mg/L)		Iron		WS
•	te) = See 33.5(3) for details.		acute	chronic	Iron(T)		1000
*Uranium(chro	onic) = See 33.5(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		0.025*	Selenium	TVS	TVS
		Sulfate		WS	Silver	TVS	TVS(tr)
		Sulfide		0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

22. All lakes and reservoirs tributary to the Yampa River from the source to the confluence with Elkhead Creek, except for those listed in Segment 21. All lakes and reservoirs tributary to Elkhead Creek from the source to the confluence with the Yampa River, except for specific listings in Segment 23. All lakes and reservoirs tributary to the Little Snake River, including those on National Forest lands.

River, includin								
COUCYA22 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)		8*	Chromium III(T)	50		
		E. coli (per 100 mL)		126	Chromium VI	TVS	TVS	
*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 33.5(4), applies only to lakes and reservoirs larger than 25 acres surface area. *Classification: DUWS Applies only to Stagecoach Res. Steamboat Lake and Yampa River Holding Pond *Phosphorus(chronic) = applies only above the facilities listed at 33.5(4), applies only to lakes and					Copper	TVS	TVS	
		Inorgar	ic (mg/L)		Iron		WS	
			acute	chronic	Iron(T)		1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron		0.75	Lead(T)	50		
-	ger than 25 acres surface area.	Chloride		250	Manganese	TVS	TVS/WS	
,	te) = See 33.5(3) for details.	Chlorine	0.019	0.011	Mercury(T)		0.01	
"Uranium(cnro *Temperature	onic) = See 33.5(3) for details.	Cyanide	0.005		Molybdenum(T)		150	
	or temperature standards.	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*	
		Sullide		0.002	Zinc	TVS	TVS	
23. Elkhead R	Peservoir				ZIIIC	1 73	1 7 3	
COUCYA23	Classifications	Physical and	Biological		Metals (ug/L)			
Designation	Agriculture		DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	14/1		Araonio			
	Aq Liic Waiiii i		WL	WL	Arsenic	340		
	Recreation E	-	acute	WL	Arsenic(T)	340	0.02	
	·	D.O. (mg/L)						
Qualifiers:	Recreation E	·	acute	chronic	Arsenic(T)		0.02	
	Recreation E	D.O. (mg/L) D.O. (spawning)	acute	chronic 6.0	Arsenic(T) Cadmium Cadmium(T)	TVS 5.0	0.02 TVS 	
	Recreation E	D.O. (mg/L) D.O. (spawning) pH	acute 	6.0 7.0	Arsenic(T) Cadmium Cadmium(T) Chromium III	TVS 5.0	0.02 TVS TVS	
Other:	Recreation E Water Supply (ug/L)(chronic) = applies only above	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L)	acute 6.5 - 9.0	6.0 7.0 8*	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T)	TVS 5.0 50	0.02 TVS TVS	
Other: chlorophyll a he facilities lis	Recreation E Water Supply	D.O. (mg/L) D.O. (spawning) pH	acute 6.5 - 9.0	6.0 7.0	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI	TVS 5.0 50 TVS	0.02 TVS TVS TVS	
Other: 'chlorophyll a he facilities lisand reservoirs' 'Phosphorus(o	Recreation E Water Supply (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes a larger than 25 acres surface area. chronic) = applies only above the	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL)	acute 6.5 - 9.0 	6.0 7.0 8*	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper	TVS 5.0 50 TVS TVS	0.02 TVS TVS TVS TVS	
Other: 'chlorophyll a he facilities listend reservoirs' Phosphorus(dacilities listed)	Recreation E Water Supply (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes a larger than 25 acres surface area.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL)	acute 6.5 - 9.0 	6.0 7.0 8* 126	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron	TVS 5.0 50 TVS	0.02 TVS TVS TVS TVS WS	
Other: 'chlorophyll a the facilities listend reservoirs' 'Phosphorus(of facilities listed reservoirs large	(ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes a larger than 25 acres surface area. chronic) = applies only above the at 33.5(4); applies only to lakes and	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL)	acute 6.5 - 9.0 sic (mg/L) acute	6.0 7.0 8* 126	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T)	TVS 5.0 50 TVS TVS	0.02 TVS TVS TVS TVS WS 1000	
Other: 'chlorophyll a che facilities listend reservoirs' Phosphorus(of facilities listed reservoirs large turnium(acu	(ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes larger than 25 acres surface area. chronic) = applies only above the at 33.5(4); applies only to lakes and ger than 25 acres surface area.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgar	acute 6.5 - 9.0 sic (mg/L) acute TVS	chronic 6.0 7.0 8* 126 chronic TVS	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead	TVS 5.0 50 TVS TVS TVS	0.02 TVS TVS TVS TVS WS	
Other: 'chlorophyll a che facilities listend reservoirs' Phosphorus(of facilities listed reservoirs large turnium(acu	Recreation E Water Supply (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes a larger than 25 acres surface area. chronic) = applies only above the at 33.5(4); applies only to lakes and per than 25 acres surface area. te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgan Ammonia Boron	acute 6.5 - 9.0 sic (mg/L) acute TVS	chronic 6.0 7.0 8* 126 chronic TVS 0.75	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T)	TVS 5.0 50 TVS TVS TVS 50	0.02 TVS TVS TVS TVS WS 1000 TVS	
Other: Techlorophyll a he facilities listend reservoirs Phosphorus(cacilities listed reservoirs larger/	Recreation E Water Supply (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes a larger than 25 acres surface area. chronic) = applies only above the at 33.5(4); applies only to lakes and per than 25 acres surface area. te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride	acute 6.5 - 9.0 sic (mg/L) acute TVS	chronic 6.0 7.0 8* 126 chronic TVS 0.75 250	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese	TVS 5.0 50 TVS TVS TVS 50 TVS TVS	0.02 TVS TVS TVS WS 1000 TVS TVS/WS	
Other: Techlorophyll a he facilities listend reservoirs Phosphorus(cacilities listed reservoirs larger/	Recreation E Water Supply (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes a larger than 25 acres surface area. chronic) = applies only above the at 33.5(4); applies only to lakes and per than 25 acres surface area. te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgar Ammonia Boron Chloride Chlorine	acute 6.5 - 9.0 sic (mg/L) acute TVS 0.019	chronic 6.0 7.0 8* 126 chronic TVS 0.75 250 0.011	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T)	TVS 5.0 50 TVS TVS TVS 50 TVS	0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01	
Other: Techlorophyll a he facilities listend reservoirs Phosphorus(cacilities listed reservoirs larger/	Recreation E Water Supply (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes a larger than 25 acres surface area. chronic) = applies only above the at 33.5(4); applies only to lakes and per than 25 acres surface area. te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgar Ammonia Boron Chloride Chlorine Cyanide	acute 6.5 - 9.0 sic (mg/L) acute TVS 0.019 0.005	chronic 6.0 7.0 8* 126 chronic TVS 0.75 250 0.011	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	TVS 5.0 50 TVS TVS TVS 50 TVS TVS	0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01	
Other: Techlorophyll a he facilities listend reservoirs Phosphorus(cacilities listed reservoirs larger/	Recreation E Water Supply (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes a larger than 25 acres surface area. chronic) = applies only above the at 33.5(4); applies only to lakes and per than 25 acres surface area. te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgar Ammonia Boron Chloride Chlorine Cyanide Nitrate	acute 6.5 - 9.0 sic (mg/L) acute TVS 0.019 0.005 10	chronic 6.0 7.0 8* 126 chronic TVS 0.75 250 0.011	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	TVS 5.0 50 TVS TVS TVS 50 TVS 50 TVS TVS 50 TVS	0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS	
Other: Techlorophyll a he facilities listend reservoirs Phosphorus(cacilities listed reservoirs larger/	Recreation E Water Supply (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes a larger than 25 acres surface area. chronic) = applies only above the at 33.5(4); applies only to lakes and per than 25 acres surface area. te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	acute 6.5 - 9.0 sic (mg/L) acute TVS 0.019 0.005	chronic 6.0 7.0 8* 126 chronic TVS 0.75 250 0.011 0.05	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	TVS 5.0 50 TVS TVS TVS 50 TVS 50 TVS TVS TVS	0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS	
Other: Techlorophyll a he facilities listend reservoirs Phosphorus(cacilities listed reservoirs larger/	Recreation E Water Supply (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes a larger than 25 acres surface area. chronic) = applies only above the at 33.5(4); applies only to lakes and per than 25 acres surface area. te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgar Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	acute 6.5 - 9.0 sic (mg/L) acute TVS 0.019 0.005 10	chronic 6.0 7.0 8* 126 chronic TVS 0.75 250 0.011 0.05 0.025*	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS	0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 100 TVS	
the facilities list and reservoirs Phosphorus(of acilities listed reservoirs larg	Recreation E Water Supply (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes a larger than 25 acres surface area. chronic) = applies only above the at 33.5(4); applies only to lakes and per than 25 acres surface area. te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgar Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	acute 6.5 - 9.0 sic (mg/L) acute TVS 0.019 0.005 10	chronic 6.0 7.0 8* 126 chronic TVS 0.75 250 0.011 0.05	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	TVS 5.0 50 TVS TVS TVS 50 TVS 50 TVS TVS TVS	0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS	
Other: 'chlorophyll a che facilities listend reservoirs' Phosphorus(of facilities listed reservoirs large turnium(acu	Recreation E Water Supply (ug/L)(chronic) = applies only above sted at 33.5(4), applies only to lakes a larger than 25 acres surface area. chronic) = applies only above the at 33.5(4); applies only to lakes and per than 25 acres surface area. te) = See 33.5(3) for details.	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (ug/L) E. coli (per 100 mL) Inorgar Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	acute 6.5 - 9.0 sic (mg/L) acute TVS 0.019 0.005 10	chronic 6.0 7.0 8* 126 chronic TVS 0.75 250 0.011 0.05 0.025*	Arsenic(T) Cadmium Cadmium(T) Chromium III Chromium III(T) Chromium VI Copper Iron Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS TVS TVS	0.02 TVS TVS TVS WS 1000 TVS TVS/WS 0.01 150 TVS 100 TVS	

All metals are dissolved unless otherwise noted.

T = total recoverable

t = total tr = trout sc = sculpin D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum week

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.

Editor's Notes

History

Entire rule eff. 07/01/2007.

Rules 33.6, 33.42 eff. 09/01/2007.

Rules 33.6, 33.43 eff. 03/01/2008.

Rules 33.3, 33.5, 33.6, 33.44 eff. 01/01/2009.

Rules 33.6 (Tables 1-18), 33.45 eff. 06/30/2010.

Rules 33.6 (Tables 1-18), 33.46 eff. 11/30/2010.

Entire rule eff. 06/30/2011.

Rules 33.6 (Table pg. 17), 33.48 eff. 01/01/2012.

Rules 33.6 (Table pg. 17), 33.49 eff. 06/30/2013.

Rules 33.6(2)(d), 33.6 (Tables pgs. 1-2, 4-6, 8-13, 15-17), 33.50 eff. 09/30/2013.

Rules 33.6 Basin Eagle River segments 8-9a, 33.51 eff. 06/30/2014.

Rules 33.5-33.6, 33.52 eff. 12/31/2014.

Rules 33.6 Basin Yampa River segment 13i, 33.53 eff. 06/30/2015.

Rules 33.5, 33.6, 33.54, Appendix 33-1 eff. 03/01/2016.

Rules 33.55, 33.56, Appendix 33-1 eff. 06/30/2016.

Rules 33.57, Appendix 33-1 eff. 06/30/2017.

Rules 33.58, Appendix 33-1 eff. 09/30/2017.

Rules 33.6(4), Appendix 33-1, 33.59, 33.60 eff. 06/30/2018.

Rules 33.61, Appendix 33-1 eff. 06/30/2019.

Rules 33.2, 33.3, 33.5, 33.6, 33.62, Appendix 33-1 eff. 12/31/2019.

Rules 33.6, 33.63, 33.64, Appendix 33-1 eff. 06/30/2020.

Rules 33.6(6), 33.65, 33.66, Appendix 33-1 eff. 06/30/2021.

Rules 33.5-33.6, 33.67, Appendix 33-1 eff. 12/31/2021.