STATE OF COLORADO

Bill Ritter, Jr., Governor
James B. Martin, Executive Director

Dedicated to protecting and improving the health and environment of the people of Colorado

4300 Cherry Creek Dr. S.
Denver, Colorado 80246-1530
Phone (303) 692-2000
TDD Line (303) 691-7700
Located in Glendale, Colorado

Laboratory Services Division
8100 Lowry Blvd.
Denver, Colorado 80230-6928
(303) 692-3090

http://www.cdphe.state.co.us

Colorado Department of Public Health and Environment

CORRECTED
NOTICE OF PUBLIC RULEMAKING HEARING
BEFORE THE
COLORADO WATER QUALITY CONTROL COMMISSION

SUBJECT:

For consideration of the adoption of revised water quality classifications, standards and designations for multiple segments in the Upper Colorado River Basin and North Platte River (Planning Region 12), Regulation #33 (5 CCR 1002-33) and in the Lower Colorado River Basin, Regulation #37 (5 CCR 1002-37).

The revisions to Regulation #33 proposed by the Water Quality Control Division (Division) as staff to the Commission, along with a proposed Statement of Basis, Specific Statutory Authority, and Purpose, are attached to this Notice as Exhibit 1. Revisions to Regulation #33 proposed by the Jackson County Water Conservancy District, along with proposed Statement of Basis and Purpose language, are attached to this Notice as Exhibit 2. Revisions to Regulation #33 proposed by the Medicine Bow-Routt National Forest, along with proposed Statement of Basis and Purpose language, are attached to this Notice as Exhibit 3. Revisions to Regulation #33 proposed by Seneca Coal Company, along with proposed Statement of Basis and Purpose language are attached to this Notice as Exhibit 4. Revisions to Regulation #33 proposed by the Northwest Colorado Council of Governments, along with proposed Statement of Basis and Purpose language, are attached to this Notice as Exhibit 5. Revisions to Regulation #33 proposed by the Grand County Districts, along with proposed Statement of Basis and Purpose language are attached to this Notice as Exhibit 6. Revisions to Regulation #33 proposed by Keystone Resort, along with proposed Statement of Basis and Purpose language are attached to this Notice as Exhibit 7. Revisions to Regulation #33 proposed by Colorado River Water Conservation District, along with proposed Statement of Basis and Purpose language are attached to this Notice as Exhibit 8. Revisions to Regulation #33 proposed by Trout Unlimited, along with proposed Statement of Basis and Purpose language, are attached to this Notice as Exhibit 9. Revisions to Regulation #33 proposed by the Hazardous Materials and Waste Management Division, along with proposed Statement of Basis and Purpose language are attached to this Notice as Exhibit 10. Revisions to Regulation #33 proposed by CBS, Inc., along with proposed Statement of Basis and Purpose language are attached to this Notice as Exhibit 11.

The revisions to Regulation #37 proposed by the Division as staff to the Commission, along with a proposed Statement of Basis, Specific Statutory Authority, and Purpose, are attached to this Notice as Exhibit 12. Revisions to Regulation #37 proposed by Trout Unlimited, along with proposed Statement of Basis and Purpose language, are attached to this Notice as Exhibit 13. Revisions to Regulation #37 proposed by Shell Frontier Oil and Gas Inc, along with proposed Statement of Basis and Purpose language, are attached to this Notice as Exhibit 14. Revisions to Regulation #37 proposed by Tri-State Generation and Transmission Association, along with proposed Statement of Basis and Purpose language, are attached to this Notice as Exhibit 15. Revisions to Regulation #37 proposed by the Town of Palisade, along with proposed Statement of

Basis and Purpose language, are attached to this Notice as Exhibit 16. Revisions to Regulation #37 proposed by CAM-Colorado LLC, along with proposed Statement of Basis and Purpose language, are attached to this Notice as Exhibit 17. Revisions to Regulation #37 proposed by Public Service Company of Colorado, a Colorado corporation, along with proposed Statement of Basis and Purpose language, are attached to this Notice as Exhibit 18.

In these attachments, proposed new language is shown with double-underlining and proposed deletions are shown with ~~strikeouts.~~ Any alternative proposals related to the revisions proposed in Exhibits 1 through 16 and developed in response to those proposed revisions will also be considered.

TRIENNIAL REVIEW PROCESS OVERVIEW:

This Rulemaking Hearing is the third and final step in a three-step process for triennial review of water quality classifications and standards in Colorado. The first step is an Issues Scoping Hearing, which provides an opportunity for early identification of potential issues that may need to be addressed in the next major rulemaking hearing for particular regulations, and for identification of any issues that may need to be addressed in rulemaking prior to that time. The Issues Scoping Hearing for these basins was held in October 2006. The second step in the triennial review process – the Issues Formulation Hearing – results in the identification of the specific issues to be addressed in the next major rulemaking hearing. The Issues Formulation Hearing for these basins was held in November 2007. The third step is the Rulemaking Hearing, where any revisions to the water quality classifications and standards are formally adopted. Information regarding triennial reviews of water quality classifications and standards is provided on the Commission's web site at http://www.cdphe.state.co.us/op/wqcc/index.html.

HEARING SCHEDULE:

DATE:	Monday, June 9, 2008
TIME:	10:00 a.m.
PLACE:	Grand Junction City Hall 250 N. 5th Street Grand Junction, Colorado

PUBLIC PARTICIPATION ENCOURAGED:

The Commission encourages all interested persons to provide their opinions or recommendations regarding the matters to be addressed in this rulemaking hearing, either orally at the hearing or in writing prior to or at the hearing. Although oral testimony from those with party status (see below) and other interested persons will be received at the hearing, the time available for such oral testimony may be limited. Written submissions prior to the hearing are encouraged, so that they can be distributed to the Commission for review prior to the hearing. Oral testimony at the hearing should primarily summarize written material previously submitted. The hearing will emphasize Commission questioning of parties and other interested persons about their written prehearing submittals. Introduction of written material at the hearing by those with party status or mailing list status (see below) generally will not be permitted. The Commission requests that all interested persons submit to the Commission any available information that may be relevant in considering the noticed proposals, including information relating to the factors listed in section 31.7(2) of the Basic Standards and Methodologies for Surface Water, 5 CCR 1002-31.

The Commission encourages informal discussions between the parties, the Water Quality Control Division and other interested persons prior to the hearing, in an effort to reach consensus or to develop proposed resolutions of issues and/or narrow the issues potentially in dispute. **The Commission strongly encourages that any multi-party/Division proposals for the resolution of issues (including proposed Statement of Basis and Purpose language whenever feasible) be submitted as part of the administrative record as early as possible, but at least by the prehearing conference.** To help facilitate discussions, the following contact information is provided:

- Water Quality Control Division: Sarah Johnson; 303-692-3609; sarah.johnson@state.co.us

(Reg. #33)	Blake Beyea; 303-692-3656; blake.beyea@state.co.us
(Regulation #37)	Mindi May; 303-692-3627; melynda.may@state.co.us
• Jackson County WCD:	Greg Sherman; 303-730-3452; greg@westernenvironment.com
• Medicine Bow-Routt:	Liz Schnackenberg; 970-870-2234; lschnackenberg@fs.fed.us
• Seneca Coal Company:	Jerry Raisch; 303-443-6151; jwr@vrlaw.com
• Northwest COG:	Lane Wyatt; 970-468-0295 ext 116; qqlane@colorado.net
• Grand County Districts:	David Bailey; 303-893-1827; dbailey@cksmb.com
• Keystone Resort:	Robert Weaver; 303-443-7839; rmw@hydrosphere.com
• Colorado River District:	Taylor Hawes; 970-945-8522; thawes@crwcd.org
• Trout Unlimited:	John Woodling; 970-254-9461; woodling@colorado.edu
• HMWMD:	Wendy Naugle; 303-692-3394; wendy.naugle@state.co.us
• CBS, Inc.:	Hank Ipsen; 303-866-0340; hank.ipsen@hro.com
• Shell Frontier Oil & Gas:	Lori Satterfield; 303-295-8282; ljsatterfield@hollandhart.com
• Tri-State Generation & Transmission:	Jerry Raisch; 303-443-6151; jwr@vrlaw.com
• Town of Palisade:	Frank Watt; 970-464-1116; frank@townofpalisade.org
• CAM-Colorado LLC:	Ronda Sandquist; 303-390-0186; rlsandquist@jacksonkelly.com
• Public Service Corporation	Christine Johnson; 720-497-2156; christine.johnston@xcelenergy.com

PARTY STATUS/MAILING LIST STATUS:

Participation as a "party" to this hearing or acquisition of "mailing list status", will require compliance with section 21.4(D) of the Procedural Rules, Regulation #21 (5 CCR 1002-21). Mailing list status will allow receipt of all party documents (except individual exhibits more than five pages in length). It is not necessary to acquire party status or mailing list status in order to testify or comment. **For each request for party status or mailing list status, please provide the organization's name, a contact person, mailing address, phone number, fax number and email address if available.** Written party status or mailing list status requests are due in the Commission Office on or before:

DATE: Thursday, April 3, 2008
TIME: 5:00 p.m.

Party status or mailing list status requests may be submitted by a fax to 303-691-7702 by this deadline, or by email to cdphe.wqcc@state.co.us, provided that the original and three copies have been mailed by this same date, PLEASE NOTE that, as indicated below, parties will have the option of distributing materials to other parties electronically, except in instances where a party has requested receiving hard copies of documents. Therefore, **anyone requesting party or mailing list status who wishes to receive hard copies of documents instead of emailed copies should so indicate in your party status/mailing list status request so that this information can be included on the list distributed by the Commission Office.**

PREHEARING STATEMENTS:

PLEASE NOTE that for this hearing two separate deadlines for prehearing statements are established: (1) An original and 13 copies of a **Proponent's Prehearing Statement** from **each proponent of revisions proposed in the exhibits attached to this notice**, including written testimony and exhibits providing the basis for the proposal, must be received in the Commission Office no later than **April 10, 2008**; and (2) An original and 13 copies of a **Responsive Prehearing Statement**, including any exhibits, written testimony, and alternative proposals of **anyone seeking party status and intending to respond to any of the noticed proposals** must be received in the Commission Office no later than **May 5, 2008**. [Note: Although the required number of hard copies of documents must be received in the Commission Office by the specified deadlines, **parties are also strongly encouraged to email a copy of their written documents to the Commission Office**, so that materials received can be posted on the Commission's web site. (please email to cdphe.wqcc@state.co.us)] In addition, copies of these documents shall be mailed or hand-delivered by the specified dates to all persons requesting party status or mailing list status, and to the Attorney General's Office representatives for the Commission and Division, in accordance with a list provided by the Commission Office following the party status/mailing list status deadline. **Alternatively, parties may email documents to**

those with party status or mailing list status by the specified dates, except to those that the list distributed by the Commission Office identifies as requesting hard copies**.**

Also **note** that the Commission has prepared a document entitled **Information for Parties to Water Quality Control Commission Rulemaking Hearings.** A copy of this document will be e-mailed to all persons requesting party status or mailing list status. It is also posted on the Commission's web site noted above, under "General Information – Public Participation in Commission Proceedings". Following the suggestions set forth in this document will enhance the effectiveness of parties' input for this proceeding. **Please note the request that all parties submit their hard copies of all hearing documents on three-hole punch paper.**

MAILING LIST STATUS COMMENTS:

Those requesting mailing list status shall provide written testimony, if any testimony is to be offered for the hearing, by the above deadline for responsive prehearing statements – i.e., **May 5, 2008**. Copies shall be submitted and distributed in the same manner as noted above for prehearing statements.

REBUTTAL STATEMENTS:

Written Rebuttal Statements responding to the responsive prehearing statements due on May 5, 2008 may be submitted by anyone seeking party status or mailing list status. Any such rebuttal statements must be received in the Commission Office by **May 21, 2008**. An original and 13 copies of written rebuttal statements must be received in the Commission Office by this deadline, and submission of an emailed copy as noted above is strongly encouraged. In addition, copies of these documents shall be mailed or hand-delivered by that date to all those requesting party status or mailing list status, and to the Attorney General's Office representatives for the Commission and Division. **Alternatively, parties may email documents to those with party status or mailing list status by this deadline,** except to those that the list distributed by the Commission Office identifies as requesting hard copies**.** No other written materials will be accepted following this deadline except for good cause shown.

PREHEARING CONFERENCE:

DATE:	Thursday, May 29, 2008
TIME:	1:00 p.m.
PLACE:	Florence Sabin Conference Room Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, Colorado

PLEASE NOTE: Attendance at the prehearing conference is mandatory for all persons requesting party status. An opportunity may be available to participate in this prehearing conference by telephone. Persons wishing to participate by telephone should notify the Commission Office as early as possible.

SPECIFIC STATUTORY AUTHORITY:

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 consideration of the regulatory amendments proposed by this notice.

Should the Commission adopt the regulatory language as proposed in this notice or alternative amendments, it will also adopt, in compliance with section 24-4-103(4) C.R.S., an appropriate Statement of Basis, Specific Statutory Authority, and Purpose.

NOTIFICATION OF POTENTIAL MATERIAL INJURY TO WATER RIGHTS:

In accordance with section 25-8-104(2)(d), C.R.S. any person who believes that the actions proposed in this notice have the potential to cause material injury to his or her water rights is requested to so indicate in the party status request submitted. In order for this potential to be considered fully by the Commission and the

other agencies listed in the statute, persons must fully explain the basis for their claim in their prehearing statement which is due in the Commission Office on the date specified above. This explanation should identify and describe the water right(s), and explain how and to what degree the material injury will be incurred.

Dated this 17th day of March 2008 at Denver, Colorado.

WATER QUALITY CONTROL COMMISSION

Paul D. Frohardt

Paul D. Frohardt, Administrator

EXHIBIT 1
WATER QUALITY CONTROL DIVISION

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

WATER QULAITY CONTROL COMMISSION

5 CCR 1002-33

CLASSIFICATIONS AND NUMERIC STANDARDS FOR UPPER COLORADO RIVER BASIN AND NORTH PLATTE RIVER (PLANNING REGION 12)

REGULATION NO. 33

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. (See section 31.14). 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 section ~~33.7~~ 33.6). 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 section ~~33.7~~ 33.6. 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. ~~Effective until December 31, 2008: Segments or portions of segments that are first, second or third order streams above 7000 feet elevation and classified Aquatic Life cold 1 or 2 shall have a chronic temperature standard of 17 ºC (MWAT) with no acute standard. The following waters designated as Gold Medal fisheries by the Colorado Wildlife Commission shall have a chronic temperature standard of 18.2 ºC (MWAT):~~

- ~~Blue River (brown and rainbow trout fishery) from Dillon River downstream to the confluence with the Colorado River;~~
- ~~Colorado River (brown and rainbow trout fishery) from Fraser River downstream to the confluence with Troublesome Creek;~~
- ~~Fryingpan River (premiere rainbow trout fishery) from Ruedi Reservoir Dam downstream to the confluence with the Roaring Fork River;~~
- ~~Gore Creek (rainbow, brook and brown trout fishery) from Eagle River upstream to Red Sandstone Creek;~~
- ~~North Delaney Butte Lake (premiere brown trout fishery (some rainbows)) west of Walden;~~
- ~~North Platte River (brown and rainbow trout fishery) from the south boundary of Routt National Forest Boundary to the Wyoming state line;~~
- ~~Roaring Fork River (rainbow and brown trout fishery, whitefish fishery) from the confluence with the Fryingpan River downstream to the confluence with the Colorado River; and~~
- ~~Steamboat Lake (premiere rainbow trout fishery) northwest of Steamboat Springs, State Park.~~

~~Other cold class 1 or 2 segments or portions of segments shall have a chronic temperature standard of 20 ºC (MWAT) with no acute standard. Segments that are classified Aquatic Life warm 1 or 2 shall have a chronic temperature standard of 30 ºC (MWAT) with no acute standard.~~

(2) QUALIFIERS

See Basic Standards and Methodologies for Surface Water ~~31.11~~ for a listing of organic standards at 31.11 and metal standards found at 31.16 Table III. ~~See Basic Standards and Methodologies for Surface Water, 31.11 for a listing of organic standards.~~ 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 the tables in 33.6. 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 Tables 33.6.

(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 30 ug/l or naturally-occurring concentrations (as determined by the State of Colorado), whichever is greater.

(d) In no case shall uranium levels in waters assigned a water supply classification be increased by a cause attributable to municipal, industrial, or agricultural discharges so as to exceed 30 ug/l where naturally-occurring concentrations are less than 30 ug/l.

33.6 TABLES

(1) Introduction

The numeric standards for various parameters in the attached tables were assigned by the Commission after a careful analysis of the data presented on actual stream conditions and on actual and potential water uses.

Numeric standards are not assigned for all parameters listed in the tables attached to 31.~~0~~16. 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 the attached tables:

ac	=	acute (1-day)
Ag	=	silver
Al	=	aluminum
As	=	arsenic
B	=	boron
Ba	=	barium
Be	=	beryllium
^{o}C	=	degrees celsius
Cd	=	cadmium
ch	=	chronic (30-day)
Cl	=	chloride
Cl_2	=	residual chlorine
CL	=	cold lake temperature tier
CLL	=	cold large lake temperature tier
CN	=	free cyanide
CrIII	=	trivalent chromium
CrVI	=	hexavalent chromium
CS-I	=	cold stream temperature tier one
CS-II	=	cold stream temperature tier two
Cu	=	copper
dis	=	dissolved

DM	=	daily maximum
D.O.	=	dissolved oxygen
F	=	fluoride
~~F.Coli~~	~~=~~	~~fecal coliforms~~
Fe	=	iron
Hg	=	mercury
mg/l	=	milligrams per liter
ml	=	milliliters
Mn	=	manganese
MWAT	=	maximum weekly average temperature
NH_3	=	un-ionized ammonia as N(nitrogen)
Ni	=	nickel
NO_2	=	nitrite as N (nitrogen)
NO_3	=	nitrate as N (nitrogen)
OW	=	outstanding waters
P	=	phosphorus
Pb	=	lead
S	=	sulfide as undissociated H_2S (hydrogen sulfide)
Sb	=	antimony
sc	=	sculpin
Se	=	selenium
SO_4	=	sulfate
sp	=	spawning
T	=	temperature
Tl	=	thallium
tr	=	trout
Trec	=	total recoverable
TVS	=	table value standard
U	=	uranium
ug/l	=	micrograms per liter
UP	=	use-protected
WL	=	warm lake temperature tier
WS-I	=	warm stream temperature tier one
WS-II	=	warm stream temperature tier two
WS-III	=	warm stream temperature tier three
WS-IV	=	warm stream temperature tier four
Zn	=	zinc

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

Fe(ch)	=	WS(dis)
Mn(ch)	=	WS(dis)
SO_4	=	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 standards, as specified in the Basic Standards and Methodologies at ~~31.11(6)~~ 31.16 Table II and III:

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

(ii)

Iron	=	300 µg/l (dissolved)
Manganese	=	50 µg/l (dissolved)
SO_4	=	250 mg/l

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) As used in the "Temporary Modifications and Qualifiers" column of the tables, the term "type i" refers to a temporary modification adopted pursuant to subsection 31.7(3)(a)(i) of the Basic Standards and Methodologies for Surface Water(i.e., "where the standard is not being met because of human-induced conditions deemed correctable within a twenty (20) year period). The term "type iii" refers to a temporary modification adopted pursuant to subsection 31.7(3)(a)(iii) of the Basic Standards and Methodologies for Surface Water (i.e., "where there is significant uncertainty regarding the appropriate long-term underlying standard").

(3) Table Value Standards

In certain instances in the attached tables, 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 ug/l unless noted)

PARAMETER(1)	**TABLE VALUE STANDARDS (2)(3)**
Ammonia (4)	Cold Water = (mg/l as N)Total $acute = \frac{0.275}{1+10^{7.204-pH}} + \frac{39.0}{1+10^{pH-7.204}}$ $chronic = \left(\frac{0.0577}{1+10^{7.688-pH}} + \frac{2.487}{1+10^{pH-7.688}}\right) * MIN\left(2.85,\ 1.45*10^{0.028(25-T)}\right)$
	Warm Water = (mg/l as N)Total $acute = \frac{0.411}{1+10^{7.204-pH}} + \frac{58.4}{1+10^{pH-7.204}}$
	$chronic\ (Apr1-Aug31) = \left(\frac{0.0577}{1+10^{7.688-pH}} + \frac{2.487}{1+10^{pH-7.688}}\right) * MIN\left(2.85,\ 1.45*10^{0.028(25-T)}\right)$ $chronic\ (Sep1-Mar\ 31) = \left(\frac{0.0577}{1+10^{7.688-pH}} + \frac{2.487}{1+10^{pH-7.688}}\right) * 1.45*10^{0.028*(25-MAX(T,\ 7))}$
NH_3 = old TVS	Cold Water Acute = 0.43/FT/FPH/2(4 old) in mg/l (N)
	Warm Water Acute = 0.62/FT/FPH/2(4 old) in mg/l (N)
Cadmium	Acute = ~~(1.13667-[(ln(hardness)*(0.04184)])*e(1.128[ln(hardness)]-3.6867)~~ (1.136672-[ln(hardness) x (0.041838)])x e 0.9151[ln(hardness)]-3.1485 Acute(Trout) = ~~(1.13667-[(ln(hardness)*(0.04184)])*e(1.128[ln(hardness)]-3.828)~~ (1.136672-[ln(hardness)x (0.041838)])x e 0.9151[ln(hardness)]-3.6236 Chronic = ~~(1.10167-[(ln(hardness)*(0.04184)])*e(0.7852[ln(hardness)]-2.715)~~

	$(1.101672-[\ln(hardness) \times (0.041838)] \times e^{0.7998[\ln(hardness)]-4.4451}$
Chromium III[5]	Acute= $e^{(0.819[\ln(hardness)]+2.5736)}$ Chronic=$e^{(0.819[\ln(hardness)]+0.5340)}$
Chromium VI[5]	Acute = 16 Chronic = 11
Copper	Acute= $e^{(0.9422[\ln(hardness)]-1.7408)}$ Chronic= $e^{(0.8545[\ln(hardness)]-1.7428)}$
Lead	Acute= $(1.46203-[(\ln hardness)*(0.145712)])* e^{(1.273[\ln(hardness)]-1.46)}$ Chronic=$(1.46203-[(\ln hardness)* (0.145712)])* e^{(1.273[\ln(hardness)]-4.705)}$
Manganese	Acute= $e^{(0.3331[\ln(hardness)]+6.4676)}$ Chronic= $e^{(0.3331 [\ln (hardness)]+5.8743)}$
Nickel	Acute= $e^{(0.846[\ln(hardness)]+2.253)}$ Chronic= $e^{(0.846[\ln(hardness)]+0.0554)}$
Selenium[6]	Acute = 18.4 Chronic = 4.6
Silver	Acute= $1/2e^{(1.72[\ln(hardness)]-6.52)}$ Chronic = $e^{(1.72[\ln(hardness)]-9.06)}$ Chronic(Trout) = $e^{(1.72[\ln(hardness)]-10.51)}$

Temperature	TEMPERATURE TIER	TIER COD	SPECIES EXPECTED TO BE PRESENT	APPLICABLE MONTHS	TEMPERATURE STANDARD (°C)	
					(MWAT)	(DM)
	Cold Stream Tier I	CS-I	brook trout, cutthroat trout	June – Sept.	17.0	21.2
				Oct. – May	9.0	13.0
	Cold Stream Tier II	CS-II	brown trout, rainbow trout, mottled sculpin, mountain whitefish, longnose sucker, Arctic grayling	April – Oct.	18.2	23.8
				Nov. – March	9.0	13.0
	Cold Lake	CL	brook trout, brown trout, cutthroat trout, lake trout, rainbow trout, Arctic grayling, sockeye salmon	April – Dec.	17.0	21.2
				Jan. – March	9.0	13.0
	Cold Large Lake (>100)	CLL	brown trout, lake trout, rainbow trout, Arctic grayling, sockeye salmon	April – Dec.	18.2	23.3
				Jan. – March	9.0	13.0
	Warm Stream Tier I	WS-I	common shiner, Johnny darter, orangethroat darter	March – Nov.	24.2	29.0
				Dec. – Feb.	12.1	14.5
	Warm Stream Tier II	WS-II	razorback sucker	March – Nov.	27.7	31.3
				Dec. – Feb.	13.9	15.2
	Warm Stream Tier III	WS-III	brook stickleback, central stoneroller, creek chub, longnose dace, Northern redbelly dace, finescale dace, white sucker	March – Nov.	27.5	28.6
				Dec. – Feb.	13.7	14.3
	Warm Stream Tier IV	WS-IV	Other Warmwater Species	March – Nov.	28.7	31.3
				Dec. – Feb.	14.3	15.2

	Warm Lakes	WL	yellow perch, walleye, pumpkinseed, smallmouth bass, striped bass, white bass, largemouth bass, bluegill, spottail shiner, Northern pike, tiger muskellunge, black crappie, common carp, gizzard shad, sauger, white crappie, wiper.	April – Dec.	26.5	29.3
				Jan. – March	13.3	14.6
Uranium	Acute= $e^{(1.1021[\ln(hardness)]+2.7088)}$ Chronic= $e^{(1.1021[\ln(hardness)]+2.2382)}$					
Zinc	Acute = ~~$e^{(0.8473[\ln(hardness)]+0.8618)}$~~ $0.978\ e^{(0.8525[\ln(hardness)]+1.0617)}$ Chronic = ~~$e^{(0.8473[\ln(hardness)]+0.8699)}$~~ $0.986\ e^{(0.8525[\ln(hardness)]+0.9109)}$ if hardness less than 113 mg/l $CaCO_3$ Chronic (sculpin) = $e^{(2.227[\ln(hardness)]-5.604)}$					

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. The hardness values used in calculating the appropriate metal standard should be based on the lower 95 per-cent 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) $FT = 10^{.03\ (20-TCAP)}$;

Where TCAP is $\leq T \leq 30$

$FT = 10^{0.03(20-T)}$;

Where 0 is $\leq T \leq$ TCAP

TCAP = 20° C cold water aquatic life species present

TCAP = 25° C cold water aquatic life species absent

FPH = 1; Where 8 <pH ~~(~~≤ 9

$$FPH = \frac{1 + 10^{(7.4-pH)}}{1.25};$$

Where 6.5 ≤pH ≤ 8

FPH means the acute pH adjustment factor, defined by the above formulas.

FT ~~M~~means the acute temperature adjustment factor, defined by the above formulas.

T means temperature measured in degrees celsius.

TCAP means temperature CAP; the maximum temperature which affects the toxicity of ammonia to salmonid and non-salmonid fish groups.

NOTE: If the calculated acute value is less than the chronic value, then the chronic value shall be used as the acute standard.

(5) Unless the stability of the chromium valence state in receiving waters can be clearly demonstrated, the standard for chromium should be in terms of chromium VI. In no case can the sum of the instream levels of Hexavalent and Trivalent Chromium exceed the water supply standard of 50 ug/l total chromium in those waters classified for domestic water use.

(6) Selenium is a bioaccumulative metal and subject to a range of toxicity values depending upon numerous site-specific variables.

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12 **BASIN: Upper Colorado River** Stream Segment Description	Desig-nation	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
1. Mainstem of the Colorado River, including all tributaries~~,~~ and wetlands, l~~akes and reservoirs,~~ within Rocky Mountain National Park, or which flow into Rocky Mountain National Park.	OW	Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
2. Mainstem of the Colorado River, including all tributaries~~,~~ and wetlands~~, lakes, and reservoirs~~ within, or flowing into Arapahoe National Recreation Area~~, including Grand Lake, Shadow Mountain Lake and Lake Granby~~.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
3. Mainstem of the Colorado River from the outlet of Lake Granby to the confluence with Roaring Fork River.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-II)°C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
4. All tributaries to the Colorado River, including all wetlands, from the outlet of Lake Granby to the confluence with the Roaring Fork River, which are on National Forest lands, except for those tributaries included in Segments 1 and 2, and specific listings in Segments 8, 9, 10a and 10b.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
5. All lakes and reservoirs tributary to the Colorado River from the boundary of Rocky Mountain National Park and Arapahoe National Recreation Area to a point immediately below the confluence with the Roaring Fork River which are not on National Forest lands, except for specific listing in Segments 11 and 12~~9~~.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CL,CLL)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
6a. All tributaries to the Colorado River, including all wetlands, from a point immediately above the confluence with Willow Creek ~~the boundary of Rocky Mountain National Park and Arapahoe National Recreation Area~~ to a point immediately ~~below~~ above the confluence with the Blue River which are not on National Forest lands, except for specific listings in Segments 6b, 6c, 6d, ~~7b,~~ 8, 10a and 10b.		Aq Life Cold 1 Recreation ~~2~~N Water Supply Agriculture	T=TVS(CS-II)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 NO_2=0.05 B=0.75 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS	Cu(ac/ch)=TVS Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS~~)~~	Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
6b. Mainstem of un-named tributary from the headwaters (Sec 32, T3N, R76W) to Willow Creek Reservoir Road (Section 8, T2N, R76W).	~~UP~~	Aq Life Cold 2 Recreation ~~2~~ N Agriculture	T=TVS(CS-II)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	CN(ac)=0.2	S=0.002 B=0.75 NO_2=0.05 NO_3=100	~~As(ac)=100~~ As(ac)=340(dis) As(ch)=100 Cd(ch)=10 CrIII(ch)=100 CrVI(ch)=100	Cu(ac)=200 Pb(ch)=100 Mn(ch)=200 Ni(ac/ch)=200	Se(ch)=20 Zn(ch)=2000	All metals are Trec unless otherwise noted.

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12 **BASIN: Upper Colorado River** Stream Segment Description	Desig-nation	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
6c. Mainstem of un-named tributary to Willow Creek from the Willow Creek Reservoir Rd (Sec. 8, T2N, R76W) to the confluence Willow Creek (Sec. 17, T2N, R76W).	~~UP~~	Aq Life Cold 2 Recreation ~~2~~N Agriculture	T=TVS(CS-II)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	~~As(ch)=100(Trec)~~ As(ac)=340 As(ch)=100(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS	Cu(ac/ch)=TVS Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
6d. Mainstem of Troublesome Creek, including all tributaries and wetlands, from the National Forest boundary to a point immediately below the East Fork of Troublesome Creek. Mainstem of Willow Creek, including all tributaries and wetlands, above Willow Creek Reservoir and not on National Forest lands. Mainstems of Kinney and McQueary Creeks, including all tributaries and wetlands, from the source to the confluence with the Colorado River. All tributaries to the Colorado River, including wetlands, from a point immediately above the confluence with Willow Creek, except for those tributaries included in Segments 1, 2, 4, and 9.		Aq Life Cold 1 Recreation N Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 NO_2=0.05 B=0.75 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS	Cu(ac/ch)=TVS Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS	Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
7a. All tributaries to the Colorado River, including all wetlands, from a point immediately above the confluence with the Blue River 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 and in the Blue River, Eagle River, and Roaring Fork River basins.		Aq Life Cold 1 Recreation ~~2~~N Water Supply Agriculture	T=TVS(CS-II)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
7b. Mainstem of Muddy Creek, including all tributaries and wetlands, from the outlet of Wolford Mountain Reservoir to the confluence with the Colorado River; mainstems of Rock Creek, Deep Creek, Sheephorn Creek, Sweetwater Creek and the Piney River, including all tributaries and wetlands, from their sources to their confluences with the Colorado River, which are not on National Forest lands.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
7c. Mainstem of Muddy Creek, including all tributaries and wetlands, from the source to a point immediately below the confluence with Eastern Gulch; Mainstems of Antelope, Derby, Blacktail, Cabin, and Red Dirt Creeks, including all tributaries and wetlands, from their sources to their confluences with the Colorado River, except for listings in Segment 4.		Aq Life Cold 1 Recreation N Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
8. Mainstem of the Williams Fork River, including all tributaries and wetlands from the source to the confluence with the Colorado River, except for those tributaries listed in segment 9.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100m	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS` Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	Point of compliance for Fe and Mn at Aspen Canyon Ranch well.
9. All tributaries to the Colorado and Fraser Rivers, including all wetlands, ~~lakes and reservoirs,~~ within the Never Summer, Indian Peaks, Byers, Vasquez, Eagles Nest and Flat Tops Wilderness Areas.	OW	Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12 **BASIN: Upper Colorado River** Stream Segment Description	Desig-nation	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
10a. Mainstem of the Fraser River~~, including all tributaries and wetlands~~ from the source to the Hammond Ditch. All tributaries to the Fraser River, including wetlands, from the source to the confluence with the Colorado River, except for those tributaries included in Segment 9.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
10b. Mainstem of the Fraser River below the Hammond Ditch to the confluence with the Colorado River.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
11. All lakes and reservoirs within Rocky Mountain National Park and within the Never Summer, Indian Peaks, Byers, Vasquez, Eagles Nest and Flat Tops Wilderness Areas.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL,CLL)°C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
12. Lakes and reservoirs within Arapahoe National Recreation Area, including Grand Lake, Shadow Mountain Lake and Lake Granby.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL,CLL)°C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12 **BASIN: Blue River** Stream Segment Description	Desig-nation	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
1. Mainstem of the Blue River from the source to Dillon Reservoir, except for specific listing in Segments 2a and 2b.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
2a. Mainstem of the Blue River from the confluence with French Gulch to a point one half mile below Summit County Road 3.	UP	Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=4 CrIII(ac)=50(Trec) CrIII(ch)=~~50~~TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) $Zn(ac/ch)=e^{(1.25 (\ln(hard)+0.799))}$	
2b. Mainstem of the Blue River from a point one half mile below Summit County Road 3 to the confluence with the Swan River.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) $Cd(ac/ch)=1/2e^{(1.0166 (\ln(hard)-3.132))}$ CrIII(ac)=50(Trec) CrIII(ch)=~~50~~TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) $Zn(ac/ch)=e^{(0.9805 (\ln(hard)+1.402))}$	
3. Dillon Reservoir and all lakes and reservoirs in the Blue River drainage above Dillon Reservoir, ~~including all direct tributaries and all tributaries, wetlands, lakes and reservoirs in the Blue River drainage above Dillon Reservoir,~~ except for specific listings in Segments~~ 1, 2, 5, 6, 10, 11, 12, 13 and 14~~21.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CL,CLL)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Special standards for Dillon Reservoir only: Total Phosphorus as P=0.0074 mg/l in the top 15 meters of the water column for the months of July, August, September & October.
4. ~~Deleted.~~ All direct tributaries to Dillon Reservoir and all tributaries and wetlands in the Blue River drainage above Dillon Reservoir, except for specific listings in Segments 1, 2a, 2b, 5, 6, and 10-14.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
5. Mainstem of Soda Creek from the source to Dillon Reservoir.		Aq Life Cold 1 Recreation ~~1a~~E Agriculture Water Supply	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.0-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ch)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
6. Mainstem of the Snake River, including all tributaries and wetlands from the source to Dillon Reservoir, except for specific listings in Segments 7, 8 and 9.	UP	Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	~~Temporary modifications:~~ ~~type iii~~ ~~Cd(ch)=2.3~~ ~~Cu(ch)=17~~ ~~no Zn(ac)~~ ~~Zn(ch)=654~~ ~~Effective until 2/28/09.~~

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12 **BASIN: Blue River** Stream Segment Description	Desig-nation	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
7. Mainstem of Peru Creek, including all tributaries and wetlands from the source to the confluence with the Snake River, except for specific listing in Segment 8.	UP	Aq Life Cold 1 Recreation ~~2~~N	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 NO_2=0.05	~~As(ch)=100(Trec)~~ As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	~~Temporary modifications:~~ ~~no Cd(ac)~~ ~~Cd(ch)=5.2~~ ~~Cu(ch)=79~~ ~~Pb(ch)=6.7~~ ~~no Zn(ac)~~ ~~Zn(ch)=1,380~~ ~~Effective until 2/28/09.~~
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 of the Snake River, including all tributaries and wetlands from the source to the confluence with the Snake River.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
9. Mainstem of Deer Creek, including all tributaries and wetlands from the source to the confluence with the Snake River.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
10. Mainstem of French Gulch including all tributaries and wetlands from the source to a point 1.5 miles below Lincoln.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
11. Mainstem of French Gulch from a point 1.5 miles below Lincoln to the confluence with the Blue River.	UP	Aq Life Cold 1 Recreation ~~1b~~P Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=325/100ml~~ E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	~~Ac(ch)=100(Trec)~~ As(ac)=340 As(ch)=7.6(Trec) Cd(ac/ch)=existing quality CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac)=TVS	Cu(ch)=TVS Fe(ch)=1000(Trec) Pb(ac/ch)=existing quality Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=existing quality	
12. Mainstem of Illinois Gulch and Fredonia Gulch from their source to their confluence with the Blue River.	~~UP~~	Aq Life Cold 2 Recreation ~~1b~~P Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=325/100ml~~ E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02-10(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	~~Temporary modification:~~ ~~Zn(ch)=850~~ ~~Effective until~~ ~~2/28/09 for Illinois~~ ~~Gulch~~
13. Mainstem of Tenmile Creek from the Climax Parshall Flume 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.		Aq Life Cold 1 Recreation ~~1b~~P Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=325/100ml~~ E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	~~As(ch)=100(Trec)~~ As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS ~~Cr(ac/ch)=TVS~~ CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS	Cu(ac/ch)=TVS Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12 **BASIN: Blue River** Stream Segment Description	Desig-nation	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
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 listing in Segment 16.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
15. Mainstem of Clinton Creek from the source to the confluence with Tenmile Creek.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
16. All tributaries to the Blue River, including all wetlands, ~~lakes and reservoirs,~~ within the Eagles Nest and Ptarmigan Peak Wilderness Areas.	OW	Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
17. Mainstem of the Blue River from the outlet of Dillon Reservoir to the confluence with the Colorado River.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
18. All tributaries to the Blue River, including all wetlands, from the outlet of Dillon Reservoir to the outlet of Green Mountain Reservoir, except for the specific listing in Segment 16.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
19. All tributaries to the Blue River, including all wetlands, from the outlet of Green Mountain Reservoir to the confluence with the Colorado River, except for specific listings in Segment 20.		Aq Life Cold 1 Recreation ~~2~~N Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
20. Mainstems of Elliot Creek and Spruce Creek including all tributaries and wetlands, from their sources to the confluence with the Blue River.		Aq Life Cold 1 Recreation ~~2~~N Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12 **BASIN: Blue River** Stream Segment Description	Desig-nation	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
21. All lakes and reservoirs within the Eagles Nest and Ptarmigan Peak Wilderness Areas.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL,CLL)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
22. All lakes and reservoirs reservoirs in the Blue River drainage below Dillon Reservoir, except for specific listings in Segment 21.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL,CLL)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12 **BASIN: Eagle River** Stream Segment Description	Desig-nation	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
1. All tributaries and wetlands to the Eagle River system within the Gore Range - Eagles Nest ~~Wilderness Area~~ and Holy Cross Wilderness Area~~s~~.	OW[1]	Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
[1] Consistent with the provisions of section 25-8-104 C.R.S. the OW designation shall not apply with respect to the Homestake Water Project of the Cities of Aurora and Colorado Springs.									
2. Mainstem of The Eagle River from the source to the compressor house bridge at Belden.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l Ph=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
3. All tributaries to the Eagle River, including wetlands, from the source to the compressor house bridge at Belden, except for the specific listing in Segment 4 and those waters included in Segment 1.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
4. Mainstem of Homestake Creek from the confluence of the East Fork to the confluence with the Eagle River.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
5a. 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.	9/30/00 Baseline does not apply	Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ch)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS	Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac)=TVS Zn(ch)=106	Seasonal Temporary Modifications type iii effective through 1/1/09. March 1 through April 30 Zn(ac)=472 Zn(ch)=410 May 1 through February 29 Zn(ac)=178 Zn(ch)=166
5b. 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.	9/30/00 Baseline does not apply	Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ch)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS	Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac)=TVS Zn(ch)=106	Seasonal Temporary Modifications type iii effective through 1/1/09. March 1 through April 30 Zn(ac)=332 Zn(ch)=310 May 1 through February 29 Zn(ac)=153 Zn(ch)=123

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12 **BASIN: Eagle River** Stream Segment Description	Desig-nation	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
5c. Mainstem of the Eagle River from a point immediately above Martin Creek to a point immediately above the confluence with Gore Creek.	9/30/00 Baseline does not apply	Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)^{o}C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ch)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS	Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac)=TVS Zn(ch)=106	Seasonal Temporary Modifications type iii effective through 1/1/09. March 1 through April 30 Zn(ac)=275 Zn(ch)=257 May 1 through February 29 Zn(ac)=127 Zn(ch)=TVS
6. All tributaries to the Eagle River, including all wetlands, from the compressor house bridge at Belden to a point immediately below the confluence with Lake Creek, except for the specific listings in Segments 1, 7a, 7b and 8.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)^{o}C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
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.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)^{o}C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(~~ch~~ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ch)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
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.	9/30/00 Baseline does not apply	Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)^{o}C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	Seasonal Temporary Modifications type iii effective through 1/1/09. March 1 through April 30 Zn(ac)=254 Zn(ch)=193 May 1 through February 29 Zn(ac)=120 Zn(ch)=116

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12 **BASIN: Eagle River** Stream Segment Description	Desig-nation	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
8. Mainstem of Gore Creek from the confluence with Black Gore Creek to the confluence with the Eagle River.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
9a. Mainstem of the Eagle River from Gore Creek to a point immediately below the confluence with Rube Creek. ~~the confluence with the Colorado River.~~		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
9b. Mainstem of the Eagle River from a point immediately below the confluence with Rube Creek to the confluence with the Colorado River.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
10. All tributaries to the Eagle River, including all wetlands, from a point immediately below the confluence with Lake Creek to the confluence with the Colorado River, except for specific listings in Segments 11 and 12, and those waters included in Segment 1.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
11. Mainstem of Alkali Creek from the source to the confluence with the Eagle River; mainstem of Milk Creek from the source to the confluence with the Eagle River.	~~UP~~	Aq Life Cold 2 Recreation~~1b~~P Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=325/100ml~~ E.Coli=205/100ml	CN(ac)=0.2 ~~NO_2(ac)=10~~ ~~NO_3(ac)=100~~	B=0.75 Cl=250 NO_2(ac)=10 NO_3(ac)=100	As(ac)=340 As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec)	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mn(ch)=200(Trec)	Ni(ch)=200(Trec) Se(ac/ch)=TVS Zn(ch)=2000(Trec)	
12. Mainstem of Brush Creek, from the source to the confluence with the Eagle River, including the East and West Forks.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
13. All lakes and reservoirs within the Gore Range - Eagles Nest and Holy Cross Wilderness Areas.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL,CLL)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
14. All lakes and reservoirs tributary to the Eagle River except for specific listings in Segment 13.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL,CLL)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12 **BASIN: Roaring Fork River** Stream Segment Description	Desig-nation	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
1. All tributaries to the Roaring Fork River system, including all wetlands, ~~lakes and reservoirs,~~ within the Maroon Bells/Snowmass, Holy Cross, Raggeds, Collegiate Peaks and ~~the~~ Hunter/Fryingpan Wilderness Areas.	OW	Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=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.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
3a. Mainstem of the Roaring Fork River, ~~including all tributaries and wetlands~~, from a point immediately below the confluence with Hunter Creek, to a point immediately below the confluence with the Fryingpan River.~~Colorado 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 and specific listings in Segments 3b ~~- through~~ 10.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
3b. Mainstem of Red Canyon and all tributaries and wetlands from the source to the confluence with the Roaring Fork River, except for Landis Creek from its source to the Hopkins Ditch Diversion.	~~UP~~	Aq Life Cold 2 Recreation ~~2~~N Water Supply Agriculture	T=TVS(CS-II)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=~~126~~630/100 ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02-10(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
3c. Mainstem of the Roaring Fork River, from a point immediately below the confluence with the Fryingpan River, to the confluence with the Colorado River. Mainstem of Three Mile Creek, including all tributaries and wetlands, from the source to the confluence with the Roaring Fork River.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
4. Mainstem of Brush Creek from the source to the confluence with the Roaring Fork River.	~~UP~~	Aq Life Cold 1 Recreation ~~1a~~E Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	~~As(ch)=100(Trec)~~ As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS	Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
5. Mainstem of the Fryingpan River from the source to the confluence with the North Fork.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12 **BASIN: Roaring Fork River** Stream Segment Description	Desig-nation	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
6. Mainstem of the Fryingpan River from the confluence with the North Fork to the confluence with the Roaring Fork River.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
7. All tributaries to the Fryingpan River ~~system~~, including all wetlands, except for those tributaries included in Segment 1.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
8. Mainstem of the Crystal River, including all tributaries and wetlands, from the source to the confluence with the Roaring Fork River, except for specific listings in Segments 1, 9 and 10.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
9. Mainstem of Coal Creek including all tributaries and wetlands from the source to the confluence with the Crystal River.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
10. Mainstem of Thompson Creek including all tributaries and wetlands from the source to the confluence with the Crystal River.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
11. All lakes and reservoirs within the Maroon Bells/Snowmass, Holy Cross, Raggeds, Collegiate Peaks and Hunter/Fryingpan Wilderness Areas.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL,CLL)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
12. All lakes and reservoirs tributary to the Roaring Fork River except for specific listings in Segment 11.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL,CLL)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12 **BASIN: North Platte River** Stream Segment Description	Desig-nation	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
1. All tributaries to the North Platte and Encampment Rivers, including all wetlands, ~~lakes and reservoirs,~~ within the Mount Zirkel, ~~the~~ Never Summer, and ~~the~~ Platte River Wilderness Areas.	OW	Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
2. Mainstem of the Encampment River, including all tributaries~~,~~ and wetlands, ~~lakes and reservoirs~~ from the source to the Colorado/Wyoming border, except for those tributaries included in Segment 1.		Aq Life Cold 1 Recreation ~~1b~~P Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=325/100ml~~ E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
3. Mainstem of the North Platte River from the confluence of Grizzly Creek and Little Grizzly Creek to the Colorado/Wyoming border.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-II)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
4a. All tributaries to the North Platte River system, including all wetlands, ~~lakes and reservoirs,~~ except for those tributaries included in Segment 1, and specific listings in Segments 4b, 5a, 5b, 6, 7a and 7b.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ch)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Mn(ch)=WS Mn(ac/ch)=TVS Pb(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=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 below 12E Road to the confluence with the North Platte River. All tributaries which enter the mainstem of the Canadian River from the southwest side of the mainstem.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Mn(ch)=WS Mn(ac/ch)=TVS Pb(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
5a. Mainstem of the Michigan River from the source to a point immediately below the confluence with the North Fork Michigan River ~~the Colorado State Forest boundary.~~		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS	Cu(ac/ch)=TVS Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Mn(ch)=WS Mn(ac/ch)=TVS Pb(ac/ch)=TVS	Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
5b. Mainstem of the Michigan River from a point immediately below the confluence with the North Fork Michigan River ~~the Colorado State Forest boundary~~ to the confluence with the North Platte River.		Aq Life Cold 1 Recreation ~~2~~N Water Supply Agriculture	T=TVS(CS-II)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ch)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=~~TVS~~50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS	Cu(ac/ch)=TVS Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Mn(ch)=WS Mn(ac/ch)=TVS Pb(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12 **BASIN: North Platte River** Stream Segment Description	Desig-nation	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
6. Mainstem of Pinkham Creek from the Routt National Forest boundary to the confluence with the North Platte River.		Aq Life Cold 1 Recreation ~~2~~N Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	~~As(ch)=100(Trec)~~ As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS	Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
7a. Mainstem of Government Creek from the boundary of the Colorado State Forest to the confluence with the Canadian River. Mainstem of Spring Creek from the source to the outlet of Spring Creek (Number 31) Reservoir. ~~confluence with Illinois River.~~	~~UP~~	Aq Life Cold 2 Recreation ~~2~~N Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	~~As(ch)=100(Trec)~~ As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS	Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Water + Fish ~~organics~~standards apply
7b. Mainstem of Spring Creek from the outlet of Spring Creek (Number 31) Reservoir to the confluence with the Illinois River.		Aq Life Cold 2 Recreation ~~2~~ N Agriculture	T=TVS(CS-II)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS	Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Water + Fish standards apply
8. All lakes and reservoirs within the Mount Zirkel, Never Summer, and Platte River Wilderness Areas.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL,CLL)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
9. All lakes and reservoirs tributary to the North Platte and Encampment Rivers except for specific listings in Segment 8.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL,CLL)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12 **BASIN: Yampa River** Stream Segment Description	Desig-nation	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
1a. All tributaries to the Yampa River, including all wetlands, ~~lakes and reservoirs,~~ which are within the Mount Zirkel, Flat Tops and Sarvis Creek Wilderness Areas.	OW	Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
1b. All lakes and reservoirs which are within the Mount Zirkel, Flat Tops and Sarvis Creek Wilderness Areas.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL,CLL)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
2a. Mainstem of the Yampa River from the confluence with Wheeler Creek to a point immediately above the confluence with Oak Creek. ~~Elkhead Creek, except for segment 2b.~~		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
2b. All lakes and reservoirs tributary to the Yampa River from the source to the confluence with Elkhead Creek, except for those listed in Segment 1b. All lakes and reservoirs tributary to Elkhead Creek from the source to the confluence with the Yampa River. All lakes and reservoirs tributary to the Little Snake River, including those on National Forest lands.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CL,CLL)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
2c. Mainstem of the Yampa River from a point immediately above the confluence with Oak Creek to a point immediately below the confluence with Elkhead Creek.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
3. All tributaries to the Yampa River, including all wetlands, from the source to the confluence with Elk River, except for specific listings in Segments ~~1, 4, 5, 6, 7,~~ 8, 13a-g and 19. Mainstem of the Bear River, including all tributaries and wetlands from the boundary of the Flat Tops Wilderness Area to the confluence with the Yampa River.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
4. Mainstem of Little White Snake Creek from the source to the confluence with the Yampa River.	~~UP~~	Aq Life Cold 2 Recreation ~~2~~N Water Supply Agriculture	T=TVS(CS-II)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	CN=0.005 ~~S=0.002~~ ~~B=0.75~~ ~~NO_2=0.05~~	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50~~ As(ac)=340(dis) As(ch)=0.02-10(Trec) Cd(ac)=5 CrIII(ac)=50 CrVI(ac)=50 Cu(ch)=200	Fe(ch)=WS(dis) Pb(ac)=50 Mn(ch)=WS Mn(ac/ch)=TVS Hg(ac)=2.0	Ni(ch)=100 Se(ch)=20 Ag(ac)=100 Zn(ac/ch)=2000	All metals are Trec unless otherwise noted.

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12 **BASIN: Yampa River** Stream Segment Description	Desig-nation	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
5. Mainstem of Chimney Creek, including all tributaries and wetlands, which are not on National Forest lands, from the source to the confluence with the Yampa River.		Aq Life Cold 1 Recreation ~~1b~~P Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=325/100ml~~ E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	~~As(ch)=100(Trec)~~ As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS	Cu(ac/ch)=TVS Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
6. Mainstem of Oak Creek, including all tributaries and wetlands, from the source to the point of discharge of the Oak Creek wastewater treatment plant.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
7. Mainstem of Oak Creek, including all tributaries and wetlands, from the point of discharge of the Oak Creek wastewater treatment plant to the confluence with the Yampa River.		Aq Life Cold 1 Recreation ~~1b~~P Agriculture	T=TVS(CS-II)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=325/100ml~~ E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	~~As(ch)=100(Trec)~~ As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS	Cu(ac/ch)=TVS Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
8. Mainstem of the Elk River including, all tributaries and wetlands, from the source to the confluence with the Yampa River, except for those tributaries included in Segment 1 and 20.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
9. Deleted.									
10. Deleted.									
11. ~~Deleted~~ Fish Creek, including all tributaries and wetlands, from the source to County Road 27, except for specific listings in Segment 20.		Aq Life Cold 2 Recreation N Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	CN(ac)=0.2	S=0.002 B=0.75 NO_2=0.05 NO_3=100	As(ac)=340(dis) As(ch)=100 Cd(ch)=10 CrIII(ch)=100 CrVI(ch)=100 Cu(ac)=200	Pb(ch)=100 Mn(ch)=200 Ni(ch)=200	Se(ch)=20 Zn(ch)=2000	All metals are Trec unless otherwise noted.
12. All tributaries to the Yampa River, including all wetlands, from the confluence with the Elk River to the confluence with Elkhead Creek, which are not on National Forest lands, except for specific listings in Segments 11 and 13a~~, 13b, 13c, 13d and 13~~e.	~~UP~~	Aq Life Cold 2 Recreation ~~2~~N Agriculture	T=TVS(CS-II)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	CN(ac)=0.2	S=0.002 B=0.75 NO_2=0.05 NO_3=100	~~As(ac)=100~~ As(ac)=340(dis) As(ch)=100 Cd(ch)=10 CrIII(ch)=100 CrVI(ch)=100 Cu(ac)=200	Pb(ch)=100 Mn(ch)=200 Ni(ch)=200	Se(ch)=20 Zn(ch)=2000	All metals are Trec unless otherwise noted.
13a. Mainstem of Trout Creek, including all tributaries and wetlands, from the source to the confluence with the Yampa River, which are not on National Forest lands, except for specific listings in Segments 13b, ~~and~~ 13c and 13g.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	~~Temporary modification. NH_3(ac/ch)=TVS(old) (Type i). Expiration date of 12/31/2011.~~

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12 **BASIN: Yampa River** Stream Segment Description	Desig-nation	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
13b. Mainstem of Foidel Creek, including all tributaries and wetlands. Mainstem Fish Creek, including all tributaries from County Road 27 downstream to the confluence with Trout Creek. Middle Creek and all tributaries, from County Road 27 downstream to the confluence with Trout Creek.		Aq Life Cold 1 Recreation ~~1a~~E Agriculture	T=TVS(CS-II)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	~~As(ch)=100(Trec)~~ As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) ~~Fish Creek~~ ~~Fe(ch)=1600(Trec)~~ ~~Foidel Creek and Middle Creek~~ Pb(ac/ch)=TVS	Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
13c. Mainstem of Trout Creek from the headgate of Spruce Hill Ditch (approximately 2,500 feet north of where County Road 27 crosses Trout Creek) to its confluence with Fish Creek. All tributaries to Trout Creek from the headgate of Spruce Hill Ditch (approximately 2,500 feet north of where County Road 27 crosses Trout Creek) to County Road 179 except for specific listings in 13b.		Aq Life Cold 1 Recreation ~~1a~~E Agriculture **June through February** Water Supply	T=TVS(CS-II)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100 **June through February** NO_3=10 Cl=250 SO_4=WS	~~As(ch)=100(Trec)~~ As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS **June through February** ~~As(ac)=50(Trec)~~ As(ch)=0.02(Trec) CrIII(ac)=50(Trec)	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) **June through February** Fe(ch)=WS(dis) Mn(ch)=WS	Ni(ac/ch)=TVS Se(ac/ch)=TVS` Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
13d. Mainstem of Dry Creek, including all tributaries and wetlands, from the source to the confluence with the Yampa River.	UP	Aq Life ~~Warm Cold 2~~ Recreation ~~1a~~E Agriculture	T=TVS(CS-II)°C ~~D.O.=5.0 mg/l~~ D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	~~As(ac)=100(Trec)~~ As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS	Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modification. NH_3(ac)= TVS(old). NH_3(ch) = 0.02 (Type i) Expiration date of 12/31/2011.
13e. Mainstems of Sage Creek above Country Road 51and Grassy Creek above County Road 27, including all tributaries and wetlands~~, from their sources to the confluence with the Yampa River~~.	UP	Aq Life ~~Warm Cold~~ 2 Recreation ~~2~~N Agriculture	T=TVS(CS-I)°C ~~D.O.=5.0 mg/l~~ D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	~~As(ac)=100(Trec)~~ As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS	Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
13f. Mainstem of Sage Creek, including all tributaries and wetlands, from County Road 51 to the confluence with the Yampa River. Mainstem of Grassy Creek, including all tributaries and wetlands, from County Road 27 to the confluence with the Yampa River.		Aq Life Cold 2 Recreation N Agriculture	T=TVS(CS-II)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS	Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
13g. Mainstem of Trout Creek, including all tributaries and wetlands, from a point immediately below its confluence with Fish Creek to the confluence with the Yampa River.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
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 Dry Creek~~the Yampa River.~~		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12 **BASIN: Yampa River** Stream Segment Description	Desig-nation	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
15. ~~Deleted.~~ Mainstem of Elkhead Creek, including all tributaries and wetlands, from a point immediately below the confluence with Dry Creek to the confluence with the Yampa River.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
16. Deleted									
17. Deleted.									
18. Mainstem of the Little Snake River, including all tributaries and wetlands, from the Routt National Forest boundary to the Colorado/Wyoming border.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
19. All tributaries to the Little Snake River, including all wetlands, ~~lakes and reservoirs,~~ which are on National Forest lands in Routt County.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch) Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
20. All tributaries to the Yampa River, including wetlands, above the confluence with Elkhead Creek that are within National Forest boundaries.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

PROPOSED
WATER QUALITY CONTROL DIVISION

33.44 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; JUNE 2008 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. 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:

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

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

Upper Colorado River 6a: The segment description was amended to exclude listings in Segment 6d and to reflect the split of Segment 10 into Segments 10a and 10b. The alteration of this segment, and the resultant creation of Segment 6d was necessary to facilitate the adoption of appropriate temperature standards.

Upper Colorado River 6d: This new segment was created to group similar streams formerly found within segment 6a. Troublesome Creek, including all tributaries and wetlands, above the East fork not on National Forest lands; Willow Creek, including and all tributaries and wetlands, above Willow Creek Reservoir not on National Forest lands; Kinney and McQueary Creeks; and tributaries to the Colorado above the confluence with Willow Creek, except for those tributaries included in Segments 1, 2, 4, and 9, were included in the newly created segment. The creation of this segment, and the alteration of Segment 6a was based on geographic location and was necessary to facilitate the adoption of appropriate temperature standards.

Upper Colorado River 7a: The segment description was amended to exclude listings in Segment 7c. The alteration of this segment, and the resultant creation of Segment 7c was necessary to facilitate the adoption of appropriate temperature standards.

Upper Colorado River 7c: This new segment was created to group similar streams formerly found within segment 7a. Muddy Creek, including all tributaries and wetlands, from the source to a point immediately below the confluence with Eastern Gulch and the mainstems of Antelope, derby, Blacktail, Cabin and Red Dirt Creeks, including all tributaries and wetlands, from the source to the confluence with the Colorado River, were included in the newly created segment. The creation of this segment, and the alteration of Segment 7a was based on geographic location and was necessary to facilitate the adoption of appropriate temperature standards.

Upper Colorado River 9: The segment description was amended to exclude lakes and reservoirs. The alteration of this segment, and the resultant creation of Segment 11 was necessary to facilitate the adoption of appropriate temperature standards. Lakes and reservoirs found in this segment are now part of Segment 11.

Upper Colorado River 10a: 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 the Hammond ditch below Fraser, 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 Segment 10b was necessary to facilitate the adoption of appropriate temperature standards.

Upper Colorado River 10b: This new segment was created for the mainstem of the Fraser River below the Hammond Ditch. The creation of this segment, and the alteration of Segment 10a was necessary to facilitate the adoption of appropriate temperature standards. This portion of the mainstem was previously part of Segment 10.

Upper Colorado River 11: 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 was necessary to facilitate the adoption of appropriate temperature standards. These lakes were previously part of Segments 1 and 9.

Upper Colorado River 12: This new segment was for lakes located in Arapahoe National Recreation Area. The creation of this segment, and the alteration of Segment 2 was 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.

Blue River 3: 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 was necessary to facilitate the adoption of appropriate temperature standards. Stream portions of the segment were moved to Segment 4.

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

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

Blue River 21: 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 was necessary to facilitate the adoption of appropriate temperature standards. These lakes were previously part of Segment 16.

Blue River 22: 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.

Eagle River 9a: 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 was necessary to facilitate the adoption of appropriate temperature standards.

Eagle River 9b: 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 was necessary to facilitate the adoption of appropriate temperature standards. This portion of the mainstem was previously part of Segment 9.

Eagle River 13: 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.

Eagle River 14: 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.

Roaring Fork River 1: The segment description was amended to exclude lakes and reservoirs. The alteration of this segment, and the resultant creation of Segment 11 was 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 was 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 was necessary to facilitate the adoption of appropriate temperature standards. These streams were previously part of Segment 3a.

Roaring Fork River 11: 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 was 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.

North Platte River 1: 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 was 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 was 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 was 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 was 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 was 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 was 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 was necessary to facilitate the adoption of appropriate temperature standards. These lakes were previously part of Segments 2 and 4a.

Yampa River 1a: 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.

Yampa River 1b: 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 was necessary to facilitate the adoption of appropriate temperature standards. These lakes were previously part of Segment 1a.

Yampa River 2a: 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 was necessary to facilitate the adoption of appropriate temperature standards.

Yampa River 2b: 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.

Yampa River 2c: 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 was necessary to facilitate the adoption of appropriate temperature standards. This portion of the mainstem was previously part of Segment 2a.

Yampa River 3: The segment description was amended to exclude the new Segments 13f and 13g. The alteration of this segment, and the creation of Segments 13f and 13g was necessary to facilitate the adoption of appropriate temperature standards.

Yampa River 11: 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 was necessary to facilitate the adoption of appropriate temperature standards. These streams were previously part of Segment 12.

Yampa River 12: 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 was necessary to facilitate the adoption of appropriate temperature standards.

Yampa River 13a: The segment description was amended to reflect the creation of Segment 13g 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 13g was necessary to facilitate the adoption of appropriate temperature standards.

Yampa River 13e: The segment description was amended to reflect new segment endpoints. The Sage Creek portion of the segment now ends at County Road 51 and the Grassy Creek portion ends at County

Road 27. The alteration of this segment, and the resultant creation of Segment 13f was necessary to facilitate the adoption of appropriate temperature standards.

Yampa River 13f: This new segment was created for the Sage and Grassy Creek, including all tributaries and wetlands, below County Road 51 and County Road 27 respectively. The creation of this segment, and the alteration of Segment 13e was necessary to facilitate the adoption of appropriate temperature standards. These streams were previously part of Segment 13e.

Yampa River 13g: 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 was necessary to facilitate the adoption of appropriate temperature standards. These streams were previously part of Segment 13a.

Yampa River 14: 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 Dry Creek. The alteration of this segment, and the resultant creation of Segment 15 was necessary to facilitate the adoption of appropriate temperature standards.

Yampa River 15: This new segment was created for Elkhead Creek below the confluence with Dry Creek. The creation of this segment, and the alteration of Segment 14 was necessary to facilitate the adoption of appropriate temperature standards. These streams were previously part of Segment 14.

Yampa River 19: 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.

B. Revised Aquatic-Life Use Classifications

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

Yampa River segments: 13d and 13e were changed from Warm 2 to Cold 2.

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, 18-20

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: 6a-6c, 7a, 7c
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, NO_3=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

Decoupling Cold 2 and UP: 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, 4
North Platte River segment: 7a
Yampa River segments: 4, 12

Decoupling Aquatic Life Warm 2 and UP: There are no segments with an Aquatic Life Warm 2 classification in the Basin

G. Ambient Quality-Based Standards

There are two segments in the Basin that have 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. The Commission adopted changes to the ambient quality-based standards for one of the two segments. The following ambient based standards have been dropped based on a recalculation using existing data:

Yampa River segment 13b: Middle Creek and Foidel Creek: Fe(ch)=1600(Trec)

H. Aquatic Life Metals Standards

New Table Value Standards: 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.

Site-Specific Zinc Standards for Mottled Sculpin: In low hardness situations (hardness below 113 mg/L) the new zinc equation is not protective of mottled sculpin (*Cottus bairdi*), a native west-slope fish species. The Commission adopted a mottled sculpin-specific 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, 10b
Blue River segments: 1, 4, 8, 14, 17
Eagle River segments: 1, 2, 4, 6, 7b, 8
Roaring Fork River segments: 2, 5, 6, 10
Yampa River segments: 2a, 2c, 3, 8,13a,18,19

Chromium III Standards: 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, 10b
Blue River segments: 4, 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, 4a, 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	
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), agriculture	As(ac) = 340, As(ch) = 100(Trec)
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. Temporary Modifications

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

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, 6d, 7b-10a
Blue River segments: 1-2b, 4-20
Eagle River segments: 1-9a, 10-12
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, 13e, 14, 18-20

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

Upper Colorado River segments: 3, 6a-c, 7a, 10b
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-d, 13f, 13g, 15

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

M. Other Site-Specific Revisions

Upper Colorado River 6a: The segment description was amended to move the bottom of the segment, from below the confluence to above the confluence, of the Colorado and Blue Rivers. This alteration eliminated confusion regarding the segment associations pertinent to Muddy Creek and its tributaries.

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

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

Eagle River 7a: 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.

Yampa River 13a: The temporary modification for NH_3 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.

Yampa River 13d: The aquatic life use classification was changed from Warm 2 to Cold 2 to reflect the prescence of coldwater species expected to occur in this segment. To reflect the Aquatic Life Cold 2 use classification for this segment, D.O.=5.0 mg/l was changed to D.O.=6.0 mg/l and D.O.(sp)=7.0 mg/l.

Yampa River 13e: The aquatic life use classification was changed from Warm 2 to Cold 2 to reflect the prescence of coldwater species expected to occur in this segment. To reflect the Aquatic Life Cold 2 use classification for this segment, D.O.=5.0 mg/l was changed to D.O.=6.0 mg/l and D.O.(sp)=7.0 mg/l.

N. Other Changes

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

The reference to “Water+Fish *Organics*” was corrected to “Water+Fish *Standards*” to incorporate the appropriate standards from both the organics table and the metal parameter table in Regulation No. 31.

EXHIBIT 2
JACKSON COUNTY WATER CONSERVANCY DISTRICT

REGION:12 BASIN: **North Platte River**	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
Stream Segment Description			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
3. Mainstem of the North Platte River from the confluence of Grizzly Creek and Little Grizzly Creek to the Colorado/Wyoming border.		Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) ~~Fe(ch)=1000(Trec)~~ Fe(ch)=1845(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
4. All tributaries to the North Platte River system, including all wetlands, lakes and reservoirs, except for those tributaries included in Segment 1, and specific listings in Segments 5, 6 and 7.		Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ch)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) ~~Fe(ch)=1000(Trec)~~ Fe(ch)=1845(Trec) Mn(ch)=WS Mn(ac/ch)=TVS Pb(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

PROPOSED

33.44 STATEMENT OF BASIS AND PURPOSE

The Water Quality Control Commission supports the request to set segment specific in-stream ambient standards for total recoverable iron (TRI) in the North Platte River Basin, Segments 3, 4, and 5b. These Segments consist of the main stream and all tributaries of the North Platte River (excluding Segments 1, 2, 5a, 6 and 7). The current water quality standard for TRI is based upon a Table Value of 1,000 ug/l. However, the actual ambient concentration of TRI, using a calculation of $\underline{x}$ + s, is 1, 845 ug/l. Based on the record, the Commission agrees that the adopted TRI concentrations represent natural ambient levels that correspond to stream segments in contact with Coalmont Formation.

This standard is consistent with the Commission's practice of adopting water quality standards based on in-stream water quality where the data indicates that Table Values are exceeded, but existing uses are adequately protected.

EXHIBIT 3
THE MEDICINE BOW-ROUTT NATIONAL FOREST

REGION: 12 BASIN: Yampa River Stream Segment Description	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
20a. All tributaries to the Yampa River, including wetlands, above the confluence with Elkhead Creek that are within National Forest boundaries, except for the specific listing in Segment 20b.		Aq Life Cold 1 ~~Recreation 1a~~ Recreation U Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH3(ac/ch)=TVS Cl2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO2=0.05 NO3=10 Cl=250 SO4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
20b. Mainstem of First Creek below Second Creek to confluence with Elkhead Creek, Mainstem of Elkhead Creek below First Creek to boundary of the National Forest.		Aq Life Cold 1 Recreation N Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH3(ac/ch)=TVS Cl2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO2=0.05 NO3=10 Cl=250 SO4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

33.44 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; JUNE 2008 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 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

A new segment was created out of Yampa River segment 20 due to information that showed no existing primary recreation use is occurring on a portion of the segment, nor is there potential for primary contact recreation use to occur on a portion of the segment. The following change was made:

Yampa River segment 20a: Segment 20 was changed to segment 20a to reflect the creation of segment 20b.

Yampa River segment 20b: This segment was created to include the mainstem of First Creek below Second Creek to the confluence with Elkhead Creek, and the mainstem of Elkhead Creek below First Creek to the boundary of the National Forest. This segment was formerly included in Yampa River segment 20 (All tributaries to the Yampa River, including wetlands, above the confluence with Elkhead Creek that are within National Forest boundaries).

B. 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 fecal coliform standard to *E. coli* standard was completed. Fecal coliform criteria were deleted from the numeric standards.

Based on a lack of a reasonable level of inquiry about existing recreational uses and a lack of a completed use attainability analysis, the Commission converted the following segment from Recreation Class 1a to Recreation Class U with a 126/100 ml E. coli standard:

Yampa River segment 20a

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

Yampa River segment 20b

EXHIBIT 4
SENECA COAL COMPANY

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12 BASIN: **Yampa River** Stream Segment Description		Desig	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
12.	All tributaries to the Yampa River, including all wetlands, from the confluence with the Elk River to the confluence with Elkhead Creek, which are not on National Forest lands, except for specific listings in Segments 13a, 13b, 13c, 13d and 13e and 13f.	UP	Aq Life Cold 2 Recreation 2 Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml	CN(ac)=0.2	S=0.002 B=0.75 NO_2=0.05 NO_3=100	As(ac)=100 Cd(ch)=10 CrIII(ch)=100 CrVI(ch)=100 Cu(ac)=200	Pb(ch)=100 Mn(ch)=200 Ni(ch)=200	Se(ch)=20 Zn(ch)=2000	All metals are Trec unless otherwise noted.
13b.	Mainstem of Foidel Creek, including all tributaries and wetlands. Mainstem Fish Creek, including all tributaries from County Road 27 downstream to the confluence with Trout Creek, except Cow Camp Creek and Bond Creek. Middle Creek and all tributaries, from County Road 27 downstream to the confluence with Trout Creek.		Aq Life Cold 1 Recreation 1a Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05	As(ch)=100(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Fish Creek Fe(ch)=1600(Trec) Foidel Creek and Middle Creek Pb(ac/ch)=TVS	Mn(ac/ch)=TVS Hg(ch)=~~0.01(tot)~~ 0.77(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
13d.	Mainstem of Dry Creek, including all tributaries and wetlands, from the source to the confluence with the Yampa River, except Hubberson Gulch and 005 Gulch, which joins Dry Creek below John C. Temple Reservoir No. 2 in Section 9, T5N, R88W.	UP	Aq Life Warm 2 Recreation 1a Agriculture	D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05	As(ac)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=~~0.01(tot)~~ 0.77(tot) Ni(ac/ch)=TVS	Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
13e.	~~Mainstems of Sage Creek and Grassy Creek, including all tributaries and wetlands, from their sources to the confluence with the Yampa River.~~ Mainstem of Sage Creek below County Road 37, Section 11, T5N, R88W, including all tributaries and wetlands. Grassy Creek from the confluence of Little Grassy Creek in Section 34, T6N, R87W, including all tributaries (except for Scotchmans Gulch and its tributaries) and wetlands, from this point to the confluence with the Yampa River.	UP	Aq Life Warm 2 Recreation 2 Agriculture	D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05	As(ac)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Sage Creek Fe(ch)=1000(Trec) Grassy Creek Fe(ch)=1760 (Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=~~0.01(tot)~~ 0.77(tot) Ni(ac/ch)=TVS	Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
13f.	Mainstem of Sage Creek above County Road 37, Section 11, T5N, R88W, including all tributaries and wetlands, to its source. Mainstem of Grassy Creek above the confluence of Little Grassy Creek in Section 34, T6N, R87W, including all tributaries and wetlands, to its source. Hubberson Gulch and 005 Gulch, and their tributaries and wetlands, from their sources to the confluences with Dry Creek. Scotchmans Gulch and its tributaries and wetlands, from its source to the confluence with Grassy Creek.	UP	Aq Life Warm 2 Recreation 2 Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml	CN(ac)=0.2	S=0.002 B=0.75 NO_2=0.05 NO_3=100	As(ac)=100 Cd(ch)=10 CrIII(ch)=100 CrVI(ch)=100 Cu(ac)=200	Pb(ch)=100 Mn(ch)=200 Ni(ch)=200	Se(ch)=20 Zn(ch)=2000	All metals are Trec unless otherwise noted.

PROPOSED

33.44 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; 2008 RULEMAKING

The provisions of C.R.S. 25-8-202(1)(a) and (2); 25-8-203; 25-8-402, provide the specific 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.

Segment 13b

Based on a Use Attainability Analysis presented by Seneca Coal Company, the Commission determined that Cow Camp Creek and Bond Creek do not support fish and, therefore, removed these streams from Segment 13b. These streams are now included in the "all tributaries" Segment 12 that is presently classified as Aquatic Life Cold 2 with water quality standards based on protection of the agriculture use.

Segment 13f

Based on a Use Attainability Analysis presented by Seneca Coal Company, the Commission determined that the upper portions of Sage Creek, Grassy Creek, all of Hubberson Gulch, and all of 005 Gulch from their sources to the confluence with Dry Creek and Scotchmans Gulch from its source to the confluence with Grassy Creek do not support fish and should be included in a new Segment 13f, with a classification of Aquatic Life Warm 2 with water quality standards based on protection of the agriculture use.

Segment 13e

Based on Regulation 31.7(1)(b)(ii) and evidence presented by Seneca Coal Company that high ambient levels of iron are due to natural causes, the Commission adopted an ambient based iron standard of 1,760 µg/L.

Segments 13b, d, and e

Based on Regulation 31.16, Table III, Footnote 6 and evidence presented by Seneca Coal Company that there are no fish of catchable size and that any fish in Segments 13b, d, and e are not consumed by humans, the Commission adopted a mercury standard of 0.77 µg/L.

EXHIBIT 5
NORTHWEST COLORADO COUNCIL OF GOVERNMENTS

Northwest Colorado Council of Governments (NWCCOG) is proposing a clarity standard for Grand Lake, and re-segmenting and modification of the water quality standards for the Snake River and Peru Creek segments of the Blue River Basin. These changes are shown in the following tables and described in the attached proposed Statement of Basis and Purpose language.

NWCCOG is also providing notice here that either or both of these proposals may be slightly modified in our Proponents Prehearing Statement.

NWCCOG has recently acquired additional data for Grand Lake and is undertaking a statistical analysis to determine if there are other water quality constituents that may help define the proposed 4 meter Secchi-disk depth clarity standard.

The NWCCOG proposal for the Snake River and Peru Creek is based on a Use Attainability Analysis (UAA). This study projects water quality improvements from passive mine treatment facilities based on literature values and best professional judgment. The EPA is finalizing a CERCLA funded Engineering Evaluation and Cost Assessment for the design of these facilities. NWCCOG and EPA are coordinating these efforts. There may be slight differences in the projected level of water quality improvement in the EECA as compared with the UAA. NWCCOG may modify its proposal to be consistent with the results of the EECA.

REGION:12 BASIN: **Upper Colorado River**	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
Stream Segment Description			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
2. Mainstem of the Colorado River, including all tributaries, wetlands, lakes, and reservoirs within, or flowing into Arapahoe National Recreation Area, including Grand Lake, Shadow Mountain Lake and Lake Granby.		Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Clarity Standard for Grand Lake: Secchi Depth = 4 meters Effective year around.

REGION:12 BASIN: **Blue River**	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
Stream Segment Description			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
6a. Mainstem of the Snake River, including all tributaries and wetlands from the source to the confluence with Peru Creek ~~Dillon Reservoir~~, except for specific listings in Segments 7, 8 and 9.	UP	Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modifications: type iii Cd(ch)=2.3 Cu(ch)=17 no Zn(ac) Zn(ch)=654 Effective until 2/28/09.
6b. Mainstem of the Snake River, including all tributaries and wetlands from the confluence with Peru Creek to Dillon Reservoir, except for specific listings in Segments 7, 8 and 9.	UP	Aq Life Cold 1 Recreation E Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=50(Trec) Cd(ac/ch)=1.4(dis) CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=3.0(dis)	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=0.59(dis) Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=440(dis)	
~~7. Mainstem of Peru Creek, including all tributaries and wetlands from the source to the confluence with the Snake River, except for specific listing in Segment 8.~~	~~UP~~	~~Aq Life Cold 1 Recreation 2~~	~~D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml~~	~~NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005~~	~~S=0.002 NO_2=0.05~~	~~As(ch)=100(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS~~	~~Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)~~	~~Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS~~	~~Temporary modifications: no Cd(ac) Cd(ch)=5.2 Cu(ch)=79 Pb(ch)=6.7 no Zn(ac) Zn(ch)=1,380 Effective until 2/28/09.~~
7a. Mainstem of Peru Creek, including all tributaries and wetlands from the source to a point perpendicular with the Pennsylvania Mine.	UP	Aq Life Cold 1 Recreation N	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 NO_2=0.05	As(ch)=10050(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
7b. Mainstem of Peru Creek, including all tributaries and wetlands from a point perpendicular with the Pennsylvania Mine to the confluence with the Snake River.	UP	Recreation N	D.O.=3.0 mg/l pH=6.5-9.0 E.Coli=630/100ml						

NWCCOG PROPOSED

33.44 Statement of Basis and Purpose

Grand Lake

The Commission determined that it is appropriate to adopt this water quality standard 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. 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. Clarity of Grand Lake, as measured by Secchi disk depth, has been reduced from a maximum recorded value of 9.2 meters (Pennak, Robert W., 1955. Comparative Limnology of Eight Colorado Mountain Lakes. *University of Colorado Studies: Series in Biology Number 2*:p22) to 1.37 meters on August 14, 2007 (GCWIN). Grand County, the Greater Grand Lake Shoreline Association and NWCCOG proposed a clarity standard of 4 meters Secchi disk depth as an interim and attainable goal on which to develop and base management plans. The Commission understands that it is the proponents' intent to reevaluate this interim 4 meter value at a future Rulemaking to determine if there is a more appropriate standard.

Snake River and Peru Creek

The Commission determined it is appropriate to split both the Snake River (Blue River Segment 6) and Peru Creek (Blue River Segment 7) into two segments each. The Commission also changed water quality standards in these segments and removed the Aquatic Life classification for the lower portion of Peru Creek. This is because of new information in a Use Attainability Analysis submitted by NWCCOG which showed that the downstream segment of Peru Creek is devoid of aquatic life and would remain so even with the implementation of proposed mine remediation projects. The UAA projected water quality improvements associated with the feasible remediation of abandoned mines in the watershed and this formed the basis for new water quality standards on the lower Snake River.

EXHIBIT 6

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

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION: 12 BASIN: UPPER COLORADO RIVER Stream Segment Description	Desig	Classifications	NUMERIC STANDARDS	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
10a. Mainstem of the Fraser River, including all tributaries and wetlands from the source to the confluence with the ~~Colorado River~~Vasquez Creek, except for those tributaries included in Segment 9.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml Temperature=TVS	NH3(ac)=TVS NH3(ch)=0.02 Cl2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO2=0.05 NO3=10 Cl=250 SO4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
10b. Mainstem of the Fraser River, including all tributaries and wetlands from immediately downstream of Vasquez Creek to the Hammond Ditch, except for those tributaries included in Segment 9.		Aq Life Cold 1 Recreation E Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml Temperature = TVS-NS	NH3(ac)=TVS NH3(ch)=0.02 Cl2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO2=0.05 NO3=10 Cl=250 SO4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
10c. Mainstem of the Fraser River, including all tributaries and wetlands from a point immediately downstream of the Hammond Ditch to the confluence with the Colorado River, except for those tributaries included in Segment 9.		Aq Life Cold 1 Recreation E Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml Temperature = TVS-NS	NH3(ac)=TVS NH3(ch)=0.02 Cl2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO2=0.05 NO3=10 Cl=250 SO4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modifications: Type (iii) Temperature =Existing Quality Expiration date of 12/31/13.

PROPOSED

33.44 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; June 2008 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

Upper Colorado River, Segment 10
Fraser River: Resegmentation and Site-Specific Temperature Standards

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 monitoring conducted by 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 ("Districts") and the Grand County Water Information Network (GCWIN), along with fish population sampling by GEI Consultants Inc./Chadwick Ecological Division, 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 from that dominated by brook trout in the upper reaches to that with brown trout and a substantial non-game fish present in the lower reaches.

Based on these findings, the Commission determined that Segment 10 would be split into three distinct segments, based on specific hydrologic breaks which also represent shifts in stream characteristics – Vasquez Creek and the Hammond Ditch, a major irrigation ditch located just north of CR 8. In addition, it was determined that default TVS for temperature were appropriate for Segment 10a, while TVS-NS was appropriate for Segment 10b and 10c, reflecting the changes in fish populations. In addition, the Commission adopted a temporary modification for temperature for Segment 10c based on significant uncertainty regarding the appropriate long-term underlying standard. This temporary modification recognizes the uncertainty created by the evolving guidance regarding assessment of compliance with temperature standards, as well as the potential to attain the temperature standard in this segment. The temporary modification has been set to expire on December 31, 2013. During the term of the temporary modification, the Districts, in combination with other stakeholders in the basin, will continue to monitor temperatures and fish populations in this segment. The temporary modification is set at "existing quality."

Each segment is described below, with appropriate temperature standards:

Segment 10a: **Mainstem of Fraser River and all tributaries (except for those tributaries in Segment 9) from its source to the confluence with Vasquez Creek.** – Aquatic Life Cold 1, Recreation E, Agriculture, Water Supply.
Temperature = default TVS, June-Sept = 17ºC ch, 21.2ºC ac; Oct-May = 9.0ºC ch, 13.0ºC ac

Segment 10b: **Mainstem of Fraser River and all tributaries (except for those tributaries in Segment 9) from a point immediately downstream of Vasquez Creek to the outfall of the Consolidated WWTP.** – Aquatic Life Cold 1, Recreation E, Agriculture, Water Supply.
Temperature = Cold, NS, Apr-Oct = 18.2ºC ch, 23.8ºC ac; Nov-Mar = 9.0ºC ch, 13.0ºC ac

Segment 10c: **Mainstem of Fraser River and all tributaries (except for those tributaries in Segment 9) from a point immediately downstream the Consolidated WWTP to the confluence with the Colorado River.** – Aquatic Life Cold 1, Recreation E, Agriculture, Water Supply.
Temperature = Cold, NS, Apr-Oct = 18.2ºC ch, 23.8ºC ac; Nov-Mar = 9.0ºC ch, 13.0ºC ac;
Temporary Modification = Existing Quality, Expiration Date=12/31/13

EXHIBIT 7
KEYSTONE RESORT

Keystone Resort provides the following proposal based upon water quality sampling results from monitoring of Keystone Ski Area streams that has been conducted over the last several years in conjunction with the preparation of a use attainability analysis. The water quality monitoring program and this proposal have been developed in consultation with the Northwest Colorado Council of Governments (NWCCOG) and the U.S. Forest Service.

PROPOSAL

- Change the description of Blue River Basin Segment 8 to include Jones Gulch (currently included in Blue River Basin segment 6);

- Remove Camp Creek from Blue River Basin Segment 6 and establish a new Segment 6a for Camp Creek from its source to the Snake River; and

- Remove the currently applicable Use-Protected Designation for Camp Creek and adopt a temporary modification for dissolved zinc of 198 µg/l (acute).

Following additional analysis of biological monitoring results for Camp Creek, Keystone Resort may propose the adoption of Site Specific Criteria Based standards for Segment 6a, as an alternative to the temporary modification described above. This alternative proposal would be based upon EPA's Recalculation Procedure (U.S. Environmental Protection Agency, 1994. EPA Interim Guidance in Determination and Use of Water-Effect Ratios for Metals. EPA-823-B094-001. Appendix L, Office of Water, Washington, D.C.) The supporting documentation for the recalculation alternative would be included in Keystone's Prehearing Statement.

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12 BASIN: **Blue River**	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
Stream Segment Description			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
6. Mainstem of the Snake River, including all tributaries and wetlands from the source to Dillon Reservoir, except for specific listings in Segments 7, 8 and 9.	UP	Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modifications: type iii Cd(ch)=2.3 Cu(ch)=17 no Zn(ac) Zn(ch)=654 Effective until 2/28/09.
6a. Mainstem of Camp Creek, including all tributaries and wetlands from the source to the confluence with the Snake River.		Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modifications: type i no Zn(ac) Zn(ch)=198 Effective until 2/28/11.
7. Mainstem of Peru Creek, including all tributaries and wetlands from the source to the confluence with the Snake River, except for specific listing in Segment 8.	UP	Aq Life Cold 1 Recreation 2	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 NO_2=0.05	As(ch)=100(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modifications: no Cd(ac) Cd(ch)=5.2 Cu(ch)=79 Pb(ch)=6.7 no Zn(ac) Zn(ch)=1,380 Effective until 2/28/09.
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 of the 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.		Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

KEYSTONE RESORT PROPOSED

33.44 STATEMENT OF BASIS AND PURPOSE

Blue River segment 6: The Commission moved Jones Gulch from segment 6 to segment 8 based upon monitoring data collected by Keystone Resort which showed that Jones Gulch meets table value standards for metals.

The Commission adopted re-segmentation of segment 6 by establishing segment 6a 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.

Blue River segment 6a: Mainstem of Camp Creek, including all tributaries and wetlands from the source to the confluence with the Snake River.

Table value standards and temporary modifications for dissolved zinc were adopted for Camp Creek. The 85th percentile of monitoring data indicate that Camp Creek meets the chronic table value standards for dissolved cadmium, copper and zinc but that dissolved zinc concentrations periodically exceed the acute and chronic standards during snowmaking and occasionally during early spring runoff. The data also demonstrate that the segment 6 temporary modifications for cadmium, copper and zinc, based upon ambient conditions in the Snake River, are not appropriate for Camp Creek. The Commission therefore adopted table value standards with a temporary modification for Camp Creek of 198 µg/l dissolved zinc (acute). This temporary modification was based upon the highest dissolved zinc concentration observed in Camp Creek during the monitoring period (observed value was 198 µg/l, on 12/01/2005). The temporary modification is intended to remain in place while Keystone Resort continues to evaluate potential snowmaking system improvements and modifications to reduce metals concentrations in the water supply used for snowmaking and the water quality impacts of snowmaking return flows. Keystone Resort 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. If such water quality improvement measures are technically and economically feasible and found to be effective such that Camp Creek meets Table Value Standards, then Camp Creek could be moved into the undesignated Blue River segment 8 and the temporary modifications removed.

Blue River segment 8: During the July 2003 Rulemaking Hearing, Keystone Resort agreed to complete an aquatic life use attainability analysis for certain tributaries of the Snake River including Jones Gulch. 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.

EXHIBIT 8
COLORADO RIVER WATER CONSERVATION DISTRICT

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12 BASIN: **Upper Colorado River**	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
Stream Segment Description			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
5. All lakes and reservoirs tributary to the Colorado River from the boundary of Rocky Mountain National Park and Arapahoe National Recreation Area to a point immediately below the confluence with the Roaring Fork River which are not on National Forest lands, except for specific listing in Segments 1 and 9.		Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Wolford Mountain Reservoir: D.O. 5.5 mg/l Apr-Dec T(ch)=21°C

PROPOSED

33.44 STATEMENT OF BASIS AND PURPOSE

At the request of the Colorado River Water Conservation District ("River District"), the Commission adopted site-specific standards for Wolford Mountain Reservoir. The site-specific standards include a Dissolved Oxygen ("D.O.") standard of 5.5 mg/l and a chronic temperature standard of 21°C from April to December. The Commission adopted these site-specific standards based on evidence that these conditions are naturally occurring in the reservoir on occasion. Evidence was also presented that the aquatic life in the reservoir has not been impaired and that adequate refugia exists in the reservoir to protect aquatic life.

EXHIBIT 9
TROUT UNLIMITED

REGION:12 BASIN: **Blue River**	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
Stream Segment Description			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
4. ~~Deleted.~~ North Fork of Swan River and all tributaries and wetlands from where the stream enters the Swan River upstream to the headwaters of the North Fork of the Swan River.	OW	Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

REGION:12 BASIN: **Eagle River**	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
Stream Segment Description			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
12. Mainstem of Brush Creek, from the source to the confluence with the Eagle River, including the East and West Forks.		Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
13. Abrams Creek and all tributaries and wetlands upstream of the United States Bureau of Land Management Boundary to the headwaters of the stream.	OW	Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

PROPOSED

33.44 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; 2008 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 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

The following creation of one new segment and recreation of one old segment in the basin was made due to information that showed that new water quality data showed that streams should be resegmented based on existing water quality levels. The following changes were made:

Eagle River Basin segment 13 was created for Abrams Creek and all tributaries and wetlands upstream of the United State Bureau of Land Management Boundary to the headwaters of the stream.

Blue River Segment 4 was recreated for the North Fork of Swan River and all tributaries and wetlands from where the stream enters the Swan River upstream to the headwaters of the North Fork of Swan River.

B. Changes to Outstanding Water Designation

Outstanding Waters Designation: Based on evidence that shows that water quality meets the requirements of 31.8(2)a, the Outstanding Water (OW) designation was added to the new Abrams Creek segment ER13 upstream of the White River National Forest Boundary to the headwaters of the stream and the recreated Blue River Segment 4 the North Fork of Swan River from where the stream enters Swan River upstream to the headwaters of the North Fork of Swan River. One new segment ER13 was created and one segment BR4 was recreated for these two waters. 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.

EXHIBIT 10
HAZARDOUS MATERIALS AND WASTE MANAGEMENT DIVISION

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12 BASIN: **Eagle River**	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
Stream Segment Description			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
1. All tributaries and wetlands to the Eagle River system within the Gore Range - Eagles Nest Wilderness Area and Holy Cross Wilderness Area.	OW[1]	Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
	[1] Consistent with the provisions of section 25-8-104 C.R.S. the OW designation shall not apply with respect to the Homestake Water Project of the Cities of Aurora and Colorado Springs.								
2. Mainstem of The Eagle River from the source to the compressor house bridge at Belden.		Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l Ph=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
3. All tributaries to the Eagle River, including wetlands, from the source to the compressor house bridge at Belden, except for the specific listing in Segment 4 and those waters included in Segment 1.		Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
4. Mainstem of Homestake Creek from the confluence of the East Fork to the confluence with the Eagle River.		Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
5a 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.	9/30/00 Baseline does not apply	Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ch)=50(Trec) Cd(ac)=TVS(tr) ~~Cd(ch)=TVS~~ Cd(ch)=1.101672-[ln(hardness)*0.041838)]*e(0.7998*[ln(hardness)]-3.1725) CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS ~~Cu(ac/ch)=TVS~~	Cu(ac)=0.96*e0.9801[ln(hardness)]-1.5096 Cu(ch)=0.96*e0.5897[ln(hardness)]-0.4076 Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS	Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) ~~Zn(ac)=TVS~~ ~~Zn(ch)=106~~ Zn(ac)=0.978*e0.8537[ln(hardness)]+2.2178 Zn(ch)=0.986*e0.8537[ln(hardness)]+2.0469	~~Seasonal Temporary Modifications type iii effective through 1/1/09.~~ ~~March 1 through April 30~~ ~~Zn(ac)=472~~ ~~Zn(ch)=410~~ ~~May 1 through February 29~~ ~~Zn(ac)=178~~ ~~Zn(ch)=166~~
5b. 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.	9/30/00 Baseline does not apply	Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ch)=50(Trec) Cd(ac)=TVS(tr) ~~Cd(ch)=TVS~~ Cd(ch)=1.101672-[ln(hardness)*0.041838)]*e(0.7998*[ln(hardness)]-3.1725) CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS ~~Cu(ac/ch)=TVS~~	Cu(ac)=0.96*e0.9801[ln(hardness)]-1.5096 Cu(ch)=0.96*e0.5897[ln(hardness)]-0.4076 Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS	Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) ~~Zn(ac)=TVS~~ ~~Zn(ch)=106~~ Zn(ac)=0.978*e0.8537[ln(hardness)]+2.2178 Zn(ch)=0.986*e0.8537[ln(hardness)]+2.0469	~~Seasonal Temporary Modifications type iii effective through 1/1/09.~~ ~~March 1 through April 30~~ ~~Zn(ac)=332~~ ~~Zn(ch)=310~~ ~~May 1 through February 29~~ ~~Zn(ac)=153~~ ~~Zn(ch)=123~~

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12 BASIN: **Eagle River**	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
Stream Segment Description			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
5c. Mainstem of the Eagle River from a point immediately above Martin Creek to a point immediately above the confluence with Gore Creek.	9/30/00 Baseline does not apply	Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ch)=50(Trec) Cd(ac)=TVS(tr) ~~Cd(ch)=TVS~~ Cd(ch)=1.101672-[ln(hardness)*0.041838)]*e(0.7998*[ln(hardness)]-3.1725) CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS ~~Cu(ac/ch)=TVS~~	Cu(ac)=0.96*e0.9801[ln(hardness)]-1.5096 Cu(ch)=0.96*e0.5897[ln(hardness)]-0.4076 Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS	Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) ~~Zn(ac)=TVS~~ ~~Zn(ch)=106~~ Zn(ac)=0.978*e0.8537[ln(hardness)]+1.5546 Zn(ch)=0.986*e0.8537[ln(hardness)]+1.3837	~~Seasonal Temporary Modifications type iii effective through 1/1/09.~~ ~~March 1 through April 30~~ ~~Zn(ac)=275~~ ~~Zn(ch)=257~~ ~~May 1 through February 29~~ ~~Zn(ac)=127~~ ~~Zn(ch)=TVS~~
6. All tributaries to the Eagle River, including all wetlands, from the compressor house bridge at Belden to a point immediately below the confluence with Lake Creek, except for the specific listings in Segments 1, 7 and 8.		Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
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.		Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ch)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ch)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
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.	9/30/00 Baseline does not apply	Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) ~~Cd(ch)=TVS~~ Cd(ch)=1.101672-[ln(hardness)*0.041838)]*e(0.7998*[ln(hardness)]-3.1725) CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS ~~Cu(ac/ch)=TVS~~	Cu(ac)=0.96*e0.9801[ln(hardness)]-1.5096 Cu(ch)=0.96*e0.5897[ln(hardness)]-0.4076 Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) ~~Zn(ac/ch)=TVS~~ Zn(ac)=0.978*e0.8537[ln(hardness)]+2.2178 Zn(ch)=0.986*e0.8537[ln(hardness)]+2.0469	~~Seasonal Temporary Modifications type iii effective through 1/1/09.~~ ~~March 1 through April 30~~ ~~Zn(ac)=254~~ ~~Zn(ch)=193~~ ~~May 1 through February 29~~ ~~Zn(ac)=120~~ ~~Zn(ch)=116~~

HMWMD PROPOSED

33.44 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; JUNE 2008 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:

After review of the evidence submitted, the Commission adopted 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 recalculated hardness-based equations are:

Acute = $0.978*e^{0.8537[\ln(hardness)]+1.5546}$
Chronic = $0.978*e^{0.8537[\ln(hardness)]+1.3837}$

Because these equations rely on Sculpin as the most sensitive species, they are referred to as "Sculpin-based equations". The Sculpin-based equations were applied by the Commission to Segment 5c of the Eagle River.

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-based equation in Segments 5a, 5b and 7b. 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 a 30 to 35% reduction in zinc loading during March through May, 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. A revised recalculation 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 = $0.978*e^{0.8537[\ln(hardness)]+2.2178}$
Chronic = $0.978*e^{0.8537[\ln(hardness)]+2.0469}$

Because these equations rely on Rainbow and Cutthroat Trout as the most sensitive species, they are referred to as "Rainbow-based 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 recalculated

equations based on Cutthroat and Rainbow Trout 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 Rainbow-based equations were applied by the Commission to Segments 5a, 5b and 7b.

Copper

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: Pectinatella magnifica (Bryzoan), Plumatella emarginata (Bryozoan), Tubifex tubifex (Worm) and Ephoron virgo (Mayfly). The resulting recalculated hardness-based equations are:

Acute = $0.96*e^{0.9801[\ln(\text{hardness})]-1.5096}$
Chronic = $0.96*e^{0.5897[\ln(\text{hardness})]-0.4076}$

These recalculated copper standards are attainable with the projected load reduction that will be required to attain the new zinc standards. These site-specific Copper equations were applied to Segments 5a, 5b, 5c and 7b.

Cadmium

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 = $1.136672-[(\ln(\text{hardness})*(0.041838)]* e^{(0.7998 [\ln \text{hardness})]-3.1725)}$

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

EXHIBIT 11
CBS OPERATIONS INC.

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION: 12 BASIN: EAGLE RIVER Stream Segment Description	Desig	Classifications	NUMERIC STANDARDS	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
5a. 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.	9/30/00 Baseline does not apply	Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH3(ac/ch)=TVS Cl2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO2=0.05 NO3=10 Cl=250 SO4=WS	As(ch)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=~~TVS~~ $[1.101672-[(\ln(hardness)*(0.041838)]*e^{(0.7998[\ln(hardness)]-3.1725)}$ CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac~~/ch~~)=~~TVS~~ $0.96*e^{0.9801[\ln(hardness)]-1.5096}$ Cu(ch)= $0.96*e^{0.5897[\ln(hardness)]-0.4076}$	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS	Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac)=~~TVS~~ $0.978*e^{0.8537[\ln(hardness)]+2.4390}$ Zn(ch)=~~106~~ $0.986*e^{0.8537[\ln(hardness)]+2.2682}$	~~Seasonal Temporary Modifications effective through 1/1/09.~~ ~~March 1 through April 30~~ ~~Zn(ac)=472~~ ~~Zn(ch)=410~~ ~~May 1 through February 29~~ ~~Zn(ac)=178~~ ~~Zn(ch)=166~~
5b. 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.	9/30/00 Baseline does not apply	Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH3(ac/ch)=TVS Cl2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO2=0.05 NO3=10 Cl=250 SO4=WS	As(ch)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=~~TVS~~ $[1.101672-[(\ln(hardness)*(0.041838)]*e^{(0.7998[\ln(hardness)]-3.1725)}$ CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac~~/ch~~)=~~TVS~~ $0.96*e^{0.9801[\ln(hardness)]-1.5096}$ Cu(ch)= $0.96*e^{0.5897[\ln(hardness)]-0.4076}$	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS	Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac)=~~TVS~~ $0.978*e^{0.8537[\ln(hardness)]+2.4390}$ Zn(ch)=~~106~~ $0.986*e^{0.8537[\ln(hardness)]+2.2682}$	~~Seasonal Temporary Modifications effective through 1/1/09.~~ ~~March 1 through April 30~~ ~~Zn(ac)=332~~ ~~Zn(ch)=310~~ ~~May 1 through February 29~~ ~~Zn(ac)=153~~ ~~Zn(ch)=123~~

5c. Mainstem of the Eagle River from a point immediately above Martin Creek to a point immediately above the confluence with Gore Creek.	9/30/00 Baseline does not apply	Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH3(ac/ch)=TVS Cl2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO2=0.05 NO3=10 Cl=250 SO4=WS	As(ch)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=~~TVS~~ [1.101672-[(ln(hardness)*(0.041838)]*$e^{(0.7998 [ln hardness)]-3.1725)}$ CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac~~/ch~~)=~~TVS~~ $0.96*e^{0.9801[ln(hardness)]-1.5096}$ Cu(ch)= $0.96*e^{0.5897[ln(hardness)]-0.4076}$	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS	Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac)=~~TVS~~ $0.978*e^{0.8537[ln(hardness)]+1.5546}$ Zn(ch)=~~106~~ $0.986*e^{0.8537[ln(hardness)]+1.3837}$	~~Seasonal Temporary Modifications effective through 1/1/09.~~ ~~March 1 through April 30~~ ~~Zn(ac)=275~~ ~~Zn(ch)=257~~ ~~May 1 through February 29~~ ~~Zn(ac)=127~~ ~~Zn(ch)=TVS~~
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.	9/30/00 Baseline does not apply	Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH3(ac/ch)=TVS Cl2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO2=0.05 NO3=10 Cl=250 SO4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=~~TVS~~ [1.101672-[(ln(hardness)*(0.041838)]*$e^{(0.7998 [ln hardness)]-3.1725)}$ CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac~~/ch~~)=~~TVS~~ $0.96*e^{0.9801[ln(hardness)]-1.5096}$ Cu(ch)= $0.96*e^{0.5897[ln(hardness)]-0.4076}$	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac~~/ch~~)=~~TVS~~ $0.978*e^{0.8537[ln(hardness)]+2.4390}$ Zn(ch)=~~106~~ $0.986*e^{0.8537[ln(hardness)]+2.2682}$	~~Seasonal Temporary Modifications effective through 1/1/09.~~ ~~March 1 through April 30~~ ~~Zn(ac)=254~~ ~~Zn(ch)=193~~ ~~May 1 through February 29~~ ~~Zn(ac)=120~~ ~~Zn(ch)=116~~

CBS PROPOSED

33.44 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; June 2008 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

Upper Colorado River, Eagle River Segments 5a, 5b, 5c and 7b: Site-specific Standards

Water quality in these segments is degraded by elevated metals concentrations (zinc, cadmium and copper) as a result of natural mineralization and historical mining activity in the Gilman Mining District, including the Eagle Mine and other abandoned mines located on the banks of the Eagle River and tributaries. It is unlikely that water quality in these segments will ever return to pre-mining conditions. In 2001, Superfund remedial action at the Eagle Mine Site was completed, and monitoring and maintenance activities are continuing. Remediation of the Eagle Mine Site has resulted in significant improvement in water quality in these segments, including the restoration of a brown trout (Salmo trutta) fishery in these segments. In the December 2005 rulemaking, the Commission adopted re-segmentation of Segments 5 and 7, based on recognized changes in water quality, hardness and use. Revised Temporary Modifications were assigned to these new segments based on significant improvements in water quality. These Temporary Modifications will expire on January 1, 2009.

The Commission has determined that it is now appropriate to adopt site-specific-criteria-based zinc, cadmium and copper standards for these segments based on the U.S. Environmental Protection Agency's Recalculation Procedure. These standards are protective of the aquatic life species expected to occur in these segments, given the relatively degraded water quality conditions which are expected to persist in the foreseeable future. The Commission further found that, in light of the substantial water quality improvement achieved in these segments by past remediation activity, considerations of practicality and technical and economic feasibility mandated by section 25-8-204(4), C.R.S. preclude adoption of Table Value Standards or standards protective of the most sensitive species that may have existed in these segments under pre-mining water quality conditions. Based on these findings, the site-specific-criteria-based standards described below are appropriate.

For Eagle River Segments 5a and 5b and Cross Creek Segment 7b, the Commission determined that recalculated zinc equations were appropriate for the protection of a resident community based on the expected predominance of brown trout, lack of resident status of rainbow or cutthroat trout, and the inability of these segments to support sculpin. For Segment 5c, the Commission adopted a recalculated standard based on an expected community comprised of trout and sculpin.

In addition, the Commission determined that site-specific standards would also be appropriate for copper and cadmium. These were also developed through use of the Recalculation Procedure, with the same equation applied to all three segments, since differences in expected fish communities did not affect the derivation of the equations.

These site specific equations for zinc, copper, and cadmium would be protective of the expected aquatic community in this portion of the Eagle River, given existing and future water quality, habitat, and flow, as summarized below:

Segment 5a: Zn Acute = $0.978 * e^{0.8537[\ln(\text{hardness})]+2.4390}$
Zn Chronic = $0.986 * e^{0.8537[\ln(\text{hardness})]+2.2682}$
Cu Acute = $0.96 * e^{0.9801[\ln(\text{hardness})]-1.5096}$

Cu Chronic = $0.96*e^{0.5897[\ln(hardness)]-0.4076}$
Cd Acute = TVStr
Cd Chronic = $cf_c*e^{(0.7998\ [\ln hardness)]-3.1725)}$, where cf_c=1.101672-[(ln(hardness)*(0.041838)]

Segment 5b: Zn Acute = $0.978*e^{0.8537[\ln(hardness)]+2.4390}$
Zn Chronic = $0.986*e^{0.8537[\ln(hardness)]+2.2682}$
Cu Acute = $0.96*e^{0.9801[\ln(hardness)]-1.5096}$
Cu Chronic = $0.96*e^{0.5897[\ln(hardness)]-0.4076}$
Cd Acute = TVStr
Cd Chronic = $cf_c*e^{(0.7998\ [\ln hardness)]-3.1725)}$, where cf_c=1.101672-[(ln(hardness)*(0.041838)]

Segment 5c: Zn Acute = $0.978*e^{0.8537\ [\ln(hardness)]+1.5546}$
Zn Chronic = $0.986*e^{0.8537\ [\ln(hardness)]+1.3837}$
Cu Acute = $0.96*e^{0.9801[\ln(hardness)]-1.5096}$
Cu Chronic = $0.96*e^{0.5897[\ln(hardness)]-0.4076}$
Cd Acute = TVStr
Cd Chronic = $cf_c*e^{(0.7998\ [\ln hardness)]-3.1725)}$, where cf_c=1.101672-[(ln(hardness)*(0.041838)]

Segment 7b: Zn Acute = $0.978*e^{0.8537[\ln(hardness)]+2.4390}$
Zn Chronic = $0.986*e^{0.8537[\ln(hardness)]+2.2682}$
Cu Acute = $0.96*e^{0.9801[\ln(hardness)]-1.5096}$
Cu Chronic = $0.96*e^{0.5897[\ln(hardness)]-0.4076}$
Cd Acute = TVStr
Cd Chronic = $cf_c*e^{(0.7998\ [\ln hardness)]-3.1725)}$, where cf_c=1.101672-[(ln(hardness)*(0.041838)]

EXHIBIT 12
WATER QUALITY CONTROL DIVISION

WATER QUALITY CONTROL COMMISSION

5 CCR 1002-37

REGULATION NO. 37
CLASSIFICATIONS AND NUMERIC STANDARDS
FOR
LOWER COLORADO RIVER BASIN

37.1 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.

37.2 PURPOSE

These regulations establish classifications and numeric standards for the Colorado River Basin, including all tributaries and standing bodies of water. This includes all or parts of Garfield, Mesa, Rio Blanco, Moffat and Routt Counties. 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. (See Regulation No. 31, section 31.14). 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.

37.3 INTRODUCTION

These regulations and tables present the classifications and numeric standards assigned to stream segments listed in the attached tables (see section ~~37.7~~ 37.6). 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 section ~~37.7~~ 37.6. 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 regulations".

37.4 DEFINITIONS

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

37.5 BASIC STANDARDS

(1) TEMPERATURE

All waters of the Colorado River Basin 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. ~~Effective until December 31, 2008: Segments or portions of segments that are first, second or third order streams above 7000 feet elevation and classified Aquatic Life cold 1 or 2 shall have a chronic temperature standard of 17 ºC (MWAT) with no acute standard. Other cold class 1 or 2 segments or portions of segments shall have a chronic temperature standard of 20 ºC (MWAT) with no acute standard. Segments that are classified Aquatic Life warm 1 or 2 shall have a chronic temperature standard of 30 ºC (MWAT) with no acute standard.~~

(2) ~~ORGANICS~~ QUALIFIERS

See Basic Standards and Methodologies for Surface Water ~~31.11~~ for a listing of organic standards at 31.11 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 which also have a water supply classification, and are applied to aquatic life class 2 streams which also have a water supply classification, on a case-by-case basis as shown in the Tables ~~37.7~~ 37.6. 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 Tables ~~37.7~~ 37.6.

(3) URANIUM

(a) All waters of the Lower 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 ~~40 pCi/l~~ 30 ug/l or naturally-occurring concentrations (as determined by the State of Colorado), whichever is greater.

(d) In no case shall uranium levels in waters assigned a water supply classification be increased by a cause attributable to municipal, industrial, or agricultural discharges so as to exceed ~~40 pCi/l~~ 30 ug/l where naturally-occurring concentrations are less than ~~40 pCi/l~~ 30 ug/l.

37.6 TABLES

(1) Introduction

The numeric standards for various parameters in the attached tables were assigned by the Commission after a careful analysis of the data presented on actual stream conditions and on actual and potential water uses.

Numeric standards are not assigned for all parameters listed in the tables attached to 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 the attached tables:

ac	=	acute (1-day)
Ag	=	silver
Al	=	aluminum
As	=	arsenic
B	=	boron
Ba	=	barium
Be	=	beryllium
^{o}C	=	degrees celsius
Cd	=	cadmium
ch	=	chronic (30-day)
CL	=	cold lake temperature tier
Cl	=	chloride
CLL	=	cold large lake temperature tier
Cl_2	=	residual chlorine
CN	=	free cyanide
CrIII	=	trivalent chromium
CrVI	=	hexavalent chromium
CS-I	=	cold stream temperature tier one
CS-II	=	cold stream temperature tier two
Cu	=	copper
dis	=	dissolved
D.O.	=	dissolved oxygen
DM	=	daily maximum
E.Coli	=	escherichia coli
~~F.Coli~~	~~=~~	~~fecal coliforms~~
Fe	=	iron
Hg	=	mercury
mg/l	=	milligrams per liter
ml	=	milliliters
Mn	=	manganese
MWAT	=	maximum weekly average temperature
NH_3	=	~~un-ionized~~ ammonia as N(nitrogen)
Ni	=	nickel
NO_2	=	nitrite as N (nitrogen)
NO_3	=	nitrate as N (nitrogen)
OW	=	outstanding waters
P	=	phosphorus
Pb	=	lead
S	=	sulfide as undissociated H_2S (hydrogen sulfide)
Sb	=	antimony
sc	=	sculpin
Se	=	selenium
SO_4	=	sulfate
sp	=	spawning
T	=	temperature
Tl	=	thallium
tr	=	trout
Trec	=	total recoverable
TVS	=	table value standard
U	=	uranium
ug/l	=	micrograms per liter
UP	=	use-protected
WL	=	warm lake temperature tier
WS-I	=	warm stream temperature tier one
WS-II	=	warm stream temperature tier two

WS-III	=	warm stream temperature tier three
WS-IV	=	warm stream temperature tier four
Zn	=	zinc

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

Fe(ch)	=	WS(dis)
Mn(ch)	=	WS(dis)
SO_4	=	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 standards, as specified in the Basic Standards and Methodologies at ~~31.11(6)~~ 31.16 Table II and III:

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

(ii)

Iron	=	300 µg/l (dissolved)
Manganese	=	50 µg/l (dissolved)
SO_4	=	250 mg/l

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) As used in the "Temporary Modifications and Qualifiers" column of the tables, the term "type i" refers to a temporary modification adopted pursuant to subsection 31.7(3)(a)(i) of the Basic Standards and Methodologies for Surface Water(i.e., "where the standard is not being met because of human-induced conditions deemed correctable within a twenty (20) year period). The term "type iii" refers to a temporary modification adopted pursuant to subsection 31.7(3)(a)(iii) of the Basic Standards and Methodologies for Surface Water (i.e., "where there is significant uncertainty regarding the appropriate long-term underlying standard").

(3) Table Value Standards

In certain instances in the attached tables, 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 ug/l unless noted)

PARAMETER[(1)]	**TABLE VALUE STANDARDS** [(2)(3)]
Ammonia [(4)]	Cold Water = (mg/l as N)Total $acute = \frac{0.275}{1+10^{7.204-pH}} + \frac{39.0}{1+10^{pH-7.204}}$ $chronic = \left(\frac{0.0577}{1+10^{7.688-pH}} + \frac{2.487}{1+10^{pH-7.688}}\right) * MIN\left(2.85,\ 1.45 * 10^{0.028(25-T)}\right)$
	Warm Water = (mg/l as N)Total

	$acute = \frac{0.411}{1+10^{7.204-pH}} + \frac{58.4}{1+10^{pH-7.204}}$
	$chronic\ (Apr1-Aug31) = \left(\frac{0.0577}{1+10^{7.688-pH}} + \frac{2.487}{1+10^{pH-7.688}}\right) * MIN\left(2.85,\ 1.45*10^{0.028(25-T)}\right)$ $chronic\ (Sep1-Mar31) = \left(\frac{0.0577}{1+10^{7.688-pH}} + \frac{2.487}{1+10^{pH-7.688}}\right) * 1.45*10^{0.028*(25-MAX(T,\ 7))}$
NH_3 = old TVS	Cold Water Acute = 0.43/FT/FPH/2[4 old] in mg/l (N)
	Warm Water Acute = 0.62/FT/FPH/2[4 old] in mg/l (N)
Cadmium	Acute = ~~(1.13667-[(ln(hardness)*(0.04184)])*e^(1.128[ln(hardness)]-3.6867)~~ (1.136672-[ln(hardness) x (0.041838)])x e^(0.9151[ln(hardness)]-3.1485) Acute(Trout) = ~~(1.13667-[(ln(hardness)*(0.04184)])*e^(1.128[ln(hardness)]-3.828)~~ (1.136672-[ln(hardness)x (0.041838)])x e^(0.9151[ln(hardness)]-3.6236) Chronic = ~~(1.10167-[(ln(hardness)*(0.04184)])*e^(0.7852[ln(hardness)]-2.715)~~ (1.101672-[ln(hardness) x(0.041838)] x e^(0.7998[ln(hardness)]-4.4451)
Chromium III[5]	Acute = $e^{(0.819[\ln(hardness)]+2.5736)}$ Chronic = $e^{(0.819[\ln(hardness)]+0.5340)}$
Chromium VI[5]	Acute = 16 Chronic = 11
Copper	Acute = $e^{(0.9422[\ln(hardness)]-1.7408)}$ Chronic = $e^{(0.8545[\ln(hardness)]-1.7428)}$
Lead	Acute = (1.46203-[ln(hardness)*(0.145712)])*$e^{(1.273[\ln(hardness)]-1.46)}$ Chronic =(1.46203-[ln (hardness)*(0.145712)])*$e^{(1.273[\ln(hardness)]-4.705)}$
Manganese	Acute = $e^{(0.3331[\ln(hardness)]+6.4676)}$ Chronic = $e^{(0.3331[\ln(hardness)]+5.8743)}$
Nickel	Acute = $e^{(0.846[\ln(hardness)]+2.253)}$ Chronic = $e^{(0.846[\ln(hardness)]+0.0554)}$
Selenium[6]	Acute = 18.4 Chronic = 4.6
Silver	Acute = ½$e^{(1.72[\ln(hardness)]-6.52)}$ Chronic = $e^{(1.72[\ln(hardness)]-9.06)}$ Chronic(Trout) = $e^{(1.72[\ln(hardness)]-10.51)}$
Uranium	Acute = $e^{(1.1021[\ln(hardness)]+2.7088)}$ Chronic = $e^{(1.1021[\ln(hardness)]+2.2382)}$

Temperature	TEMPERA-TURE TIER	TIER CODE	SPECIES EXPECTED TO BE PRESENT	APPLICABLE MONTHS	TEMPERATURE STANDARD (°C)	
					(MWAT)	(DM)
	Cold Stream Tier I	CS-I	brook trout, cutthroat trout	June – Sept.	17.0	21.2
				Oct. – May	9.0	13.0
	Cold Stream Tier II	CS-II	brown trout, rainbow trout, mottled sculpin, mountain whitefish, longnose sucker, Arctic grayling	April – Oct.	18.2	23.8
				Nov. – March	9.0	13.0
	Cold Lake	CL	brook trout, brown trout, cutthroat trout, lake trout, rainbow trout, Arctic grayling, sockeye salmon	April – Dec.	17.0	21.2
				Jan. – March	9.0	13.0
	Cold Large Lake (>100)	CLL	rainbow trout	April – Dec.	18.2	23.8
				Jan. – March	9.0	13.0
	Warm Stream Tier I	WS-I	common shiner, Johnny darter, orangethroat darter	March – Nov.	24.2	29.0
				Dec. – Feb.	12.1	14.5
	Warm Stream Tier II	WS-II	razorback sucker	March – Nov.	27.7	31.3
				Dec. – Feb.	13.9	15.2
	Warm Stream Tier III	WS-III	brook stickleback, central stoneroller, creek chub, longnose dace, Northern redbelly dace, finescale dace, white sucker	March – Nov.	27.5	28.6
				Dec. – Feb.	13.7	14.3
	Warm Stream Tier IV	WS-IV	Other Warmwater Species	March – Nov.	28.7	31.3
				Dec. – Feb.	14.3	15.2
	Warm Lakes	WL	yellow perch, walleye, pumpkinseed, smallmouth bass, striped bass, white bass, largemouth bass, bluegill, spottail shiner, Northern pike, tiger muskellunge, black crappie, common carp, gizzard shad, sauger, white crappie, wiper	April – Dec.	26.5	29.3
				Jan. – March	13.3	14.6
Zinc	Acute = ~~$e^{(0.8473[\ln(hardness)]+0.8618)}$~~ $0.978\ e^{(0.8525[\ln(hardness)]+1.0617)}$ Chronic = ~~$e^{(0.8473[\ln(hardness)]+0.8699)}$~~ $0.986\ e^{(0.8525[\ln(hardness)]+0.9109)}$ If mottled sculpin are present and hardness is less than 113 mg/l $CaCO_3$ Chronic (sculpin) = $e^{(0.8525[\ln(hardness)]+0.9109)}$					

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. The hardness values used in calculating the appropriate metal standard should be based on the lower 95 per cent 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) $FT = 10^{0.03(20-TCAP)}$;

Where TCAP is $\leq T \leq 30$

$FT = 10^{0.03(20-T)}$;

Where 0 is $\leq T \leq TCAP$

TCAP = 20° C cold water aquatic life species present

TCAP = 25° C cold water aquatic life species absent

FPH = 1; Where $8 < pH \leq 9$

$FPH = \frac{1 + 10^{(7.4-pH)}}{1.25}$; Where $6.5 \leq pH \leq 8$

FPH means the acute pH adjustment factor, defined by the above formulas.

FT Means the acute temperature adjustment factor, defined by the above formulas.

T means temperature measured in degrees celsius.

TCAP means temperature CAP; the maximum temperature which affects the toxicity of ammonia to salmonid and non-salmonid fish groups.

NOTE: If the calculated acute value is less than the calculated chronic value, then the calculated chronic value shall be used as the acute standard.

(5) Unless the stability of the chromium valence state in receiving waters can be clearly demonstrated, the standard for chromium should be in terms of chromium VI. In no case can the sum of the instream levels of Hexavalent and Trivalent Chromium exceed the water supply standard of 50 ug/l total chromium in those waters classified for domestic water use.

(6) Selenium is a bioaccumulative metal and subject to a range of toxicity values depending upon numerous site-specific variables.

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11 **BASIN: Lower Yampa River/Green River** Stream Segment Description	Desig	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
1. Deleted. ~~Mainstem of the Yampa River from a point immediately below the confluence with Elkhead Creek to a point immediately above the confluence with Lay Creek.~~		~~Aq Life Cold 1 Recreation 1a Water Supply Agriculture~~	~~D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F.Coli=200/100ml E. Coli=126/100ml~~	~~NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl2(ch)=0.011 CN=0.005 S=0.002~~	~~B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS~~	~~As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS~~	~~Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(tot)~~	~~Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS~~	
2. Mainstem of the Yampa River from a point immediately below the confluence with Elkhead Creek ~~above the confluence with Lay Creek~~ to the confluence with the Green River.		Aq Life Warm 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E. Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS(sc)	Temporary modification: NH_3(ac/~~ch~~)=TVS(old) NH_3(ch)=0.06 (Type i). Expiration date of 12/31/2011.
3a. All tributaries to the Yampa River, including all wetlands, ~~lakes and reservoirs,~~ from a point immediately below the confluence with Elkhead Creek to a point immediately below the confluence with the Little Snake River~~Lay Creek~~, except for the specific listings in Segments 3b through 15, 17a, 17b and 18.	UP	Aq Life Warm 2 Recreation ~~2~~N Agriculture	T=TVS(WS-IV) °C D.O. = 5.0 mg/l pH = 6.5-9.0 ~~F.Coli=2000/100ml~~ E. Coli=630/100ml	CN(ac)=0.2 NO_2~~(ac)~~=10 NO_3~~(ac)~~=100	B~~(ch)~~=0.75	As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec)	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mn(ch)=200(Trec)	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	
3b. Mainstems of Johnson Gulch, Pyeatt Gulch, Ute Gulch, Castor Gulch, No Name Gulch, Flume Gulch, Buzzard Gulch, Coyote Gulch, Deal Gulch, Horse Gulch (BOTH), Elk Gulch, Ben Morgan Creek, Boxelder Gulch, Collom Gulch, Hale Gulch and Jubb Creek, including all tributaries from their sources to their mouths.	~~UP~~	Aq Life ~~Warm~~ Cold 2 Recreation ~~1b~~P Agriculture	T=TVS(CS-II) °C D.O. = 6.0 ~~5.0~~ mg/l D.O.(sp) =7.0 mg/l pH = 6.5-9.0 ~~F.Coli=325/100ml~~ E. Coli=205/100ml	CN(ac)=0.2 NO_2~~(ac)~~=10 NO_3~~(ac)~~=100	B~~(ch)~~=5	As(ch)=200(Trec) Cd(ch)=50(Trec) CrIII(ch)=1000(tot) CrVI(ch)=1000(tot) Cu(ch)=500(Trec)	Pb(ch)=100(Trec)	Se(ch)=50(Trec) Zn(ch)=25,000(Trec)	~~Temp modification:~~ Goal Qualifier: Se(ac/ch)=TVS for Johnson Gulch from the confluence of Johnson Gulch and Pyeatt Gulch to the confluence with the Yampa River. ~~Expiration date of 2/28/09.~~
3c. Mainstem of Milk Creek, including all tributaries~~,~~ and wetlands, ~~lakes and reservoirs,~~ from ~~Thornburgh (County Rd 15)~~ a point immediately below the confluence with Clrea Creek to the confluence with the Yampa River except for the specific listings in Segment 3b and 3e.		Aq Life Warm 1 Recreation ~~1b~~P Water Supply Agriculture	T=TVS(WS-III) °C D.O. = 5.0 mg/l pH = 6.5-9.0 ~~F.Coli=325/100ml~~ E. Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
3d. Mainstem of Temple Gulch, Lay Creek, and Morgan Gulch from their sources to their confluences with the Yampa River.		Aq Life Warm 2 Recreation ~~2~~N Agriculture	T=TVS(WS-III) °C D.O. = 5.0 mg/l pH = 6.5-9.0 ~~F.Coli=2000/100ml~~ E. Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	~~As(ac)=100(Trec)~~ As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
3e. Mainstem of Good Spring Creek above Wilson Reservoir and Wilson Creek and their tributaries except for Jubb Creek.	~~UP~~	Aq Life Warm 2 Recreation ~~1b~~P Water Supply Agriculture	T=TVS(WS-III) °C D.O. = 5.0 mg/l pH = 6.5-9.0 ~~F.Coli=325100ml~~ E. Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02-10(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11 **BASIN: Lower Yampa River/Green River** Stream Segment Description	Desig	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
3f. Big Gulch.		Aq Life Warm 2 Recreation ~~1a~~E Agriculture	T=TVS(WS-III) °C D.O. = 5.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E. Coli=126/100ml	CN(ac)=0.2 NO_2~~(ac)~~=10 NO_3~~(ac)~~=100	B~~(ch)~~=0.75	As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec) CrVI(ch)=100(Trec) Cu(ch)=200(Trec)	Pb(ch)=100(Trec) Mn(ch)=200(Trec)	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	
4. ~~Mainstem of the~~ North and South Fork of Fortification Creek, including all wetlands~~,~~ and tributaries, ~~lakes and reservoirs,~~ from their sources ~~the source~~ to their ~~the~~ confluence ~~with the North Fork of Fortification Creek~~. Little Cottonwood Creek, including all wetlands and tributaries from the source to the confluence with Fortification Creek.		Aq Life Cold 1 Recreation ~~1b~~P Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=325/100ml~~ E. Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=.01(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
5. Mainstem of Fortification Creek from the confluence of the North Fork and South Fork to the confluence with the Yampa River.		Aq Life Warm 1 Recreation ~~1a~~E Agriculture	T=TVS(WS-III) °C D.O. = ~~6.0~~ 5.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E. Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	~~As(ch)=100(Trec)~~ As(ac)=340 As(ch)=7.6(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
6a. All tributaries to Fortification Creek, including ~~the North Fork of Fortification Creek and~~ all wetlands, ~~lakes and reservoirs,~~ from the confluence of the North and South Forks to the confluence with the Yampa River, except for the specific listings in Segments 4 ~~6b~~ and 7.	UP	Aq Life Warm 2 Recreation ~~1b~~P Agriculture	T=TVS(WS-IV) °C D.O.= 5.0 mg/l pH = 6.5-9.0 ~~F.Coli=325/100ml~~ E. Coli=205/100ml	CN(ac)=0.2 NO_2~~(ac)~~=10 NO_3~~(ac)~~=100	B~~(ch)~~=0.75	As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec)	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mn(ch)=200(Trec)	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	
6b. Deleted.~~Freeman Reservoir.~~		~~Aq Life Cold 1~~ ~~Recreation 1a~~ ~~Agriculture~~	~~D.O.=6.0 mg/l~~ ~~D.O.(sp)=7.0 mg/l~~ ~~pH = 6.5-9.0~~ ~~F.Coli=200/100ml~~ ~~E. Coli=126/100ml~~	~~NH_3(ac/ch)=TVS~~ ~~Cl_2(ac)=0.019~~ ~~Cl_2(ch)=0.011~~ ~~CN=0.005~~	~~S=0.002~~ ~~B=0.75~~ ~~NO_2=0.05~~	~~As(ch)=100(Trec)~~ ~~Cd(ac)=TVS(tr)~~ ~~Cd(ch)=TVS~~ ~~CrIII(ac/ch)=TVS~~ ~~CrVI(ac/ch)=TVS~~ ~~Cu(ac/ch)=TVS~~	~~Fe(ch)=1000(Trec)~~ ~~Pb(ac/ch)=TVS~~ ~~Mn(ac/ch)=TVS~~ ~~Hg(ch)=0.01(tot)~~ ~~Ni(ac/ch)=TVS~~	~~Se(ac/ch)=TVS~~ ~~Ag(ac)=TVS~~ ~~Ag(ch)=TVS(tr)~~ ~~Zn(ac/ch)=TVS~~	
7. Mainstem of ~~the~~ Little Bear Creek, including all tributaries~~,~~ and wetlands, ~~lakes, and reservoirs,~~ from the source to the confluence with Dry Fork.		Aq Life Cold 1 Recreation ~~1b~~P Agriculture	T=TVS(CS-II) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=325/100ml~~ E. Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	~~As(ch)=100(Trec)~~ As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
8. Mainstem of the East Fork of the Williams Fork River, including all tributaries~~,~~ and wetlands~~, lakes and reservoirs~~ which are within the boundaries of the Flat Tops Wilderness Area.	OW	Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E. Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=.0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
9. Mainstems of the East and South Forks of the Williams Fork River, including all wetlands~~,~~ and tributaries, ~~lakes and reservoirs~~ which are within the boundary of Routt National Forest, ~~from the source to the boundary of Routt National Forest,~~ except for the specific listings in Segment 8.		Aq Life Cold 1 Recreation ~~1b~~P Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=325/100ml~~ E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11 **BASIN: Lower Yampa River/Green River** Stream Segment Description	Desig	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
10. Mainstem of the East Fork of Williams Fork River including all wetlands and tributaries, from the boundary of Routt National Forest to the confluence with the South Fork of the Williams Fork River.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-II) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
11. Deleted.~~Mainstem of the South Fork of Williams Fork River, including all wetlands, tributaries, lakes and reservoirs which are within the boundary of Routt National Forest, from the source to the boundary of Routt National Forest.~~		~~Aq Life Cold 1 Recreation 1b Water Supply Agriculture~~	~~D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F.Coli=325/100ml E.Coli=205/100ml~~	~~NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005~~	~~S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS~~	~~As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS~~	~~Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)~~	~~Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS~~	
12a. Mainstem of the South Fork of the Williams Fork River and Beaver Creek, including all wetlands and tributaries, from the boundary of Routt National Forest to their mouths, Milk Creek including all tributaries~~,~~ and wetlands~~, lakes and reservoirs~~ from its source to a point just below the confluence with Clear Creek. ~~Thornburgh (County Rd 15), mainstem of~~ Morapos Creek including all wetlands and tributaries from the source to the Moffat/Rio Blanco County line.~~confluence with the Williams Fork River.~~		Aq Life Cold 1 Recreation ~~1b~~P Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=325/100ml~~ E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100~~10~~ Cl=250	~~As(ch)=100(Trec)~~ As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
12b. Deleted.~~Aldrich Lakes.~~		~~Aq Life Cold 1 Recreation 1a Agriculture~~	~~D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml~~	~~NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005~~	~~S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250~~	~~As(ch)=100(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS~~	~~Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS~~	~~Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS~~	
13a. Mainstem of the Williams Fork River from the confluence of the East Fork and South Fork to the Highway 13/789 bridge at Hamilton. Mainstem Morapos Creek including all wetlands and tributaries from the Moffat/Rio Blanco County line to the confluence with the Willaims Fork River.	~~UP~~	Aq Life Cold 2 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-II) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02-10(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
13b. Mainstem of the Williams Fork River from the highway 13/789 bridge at Hamilton to the confluence with the Yampa River.	~~UP~~	Aq Life Warm 2 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(WS-III) °C D.O. = 5.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02-10(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS(sc)	
14. Deleted. ~~All tributaries to the Yampa River including all wetlands, lakes, and reservoirs from a point immediately below the confluence with Lay Creek to a point immediately below the confluence with the Little Snake River, except for specific listings in Segments 17a, 17b and 18.~~	~~UP~~	~~Aq Life Warm 2 Recreation 2 Agriculture~~	~~D.O.= 5.0 mg/l pH = 6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml~~	~~CN(ac)=0.2 NO_2(ac)=10 NO_3(ac)=100~~	~~B(ch)=0.75~~	~~As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec) CrVI(ch)=100(Trec) Cu(ch)=200(Trec)~~	~~Pb(ch)=100(Trec) Mn(ch)=200(Trec)~~	~~Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)~~	
15. Those portions of the Little Snake River which are in Colorado, from its first crossing of the Colorado/Wyoming border to a point immediately above the confluence with Powder Wash (Moffatt County).		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-II) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11 **BASIN: Lower Yampa River/Green River** Stream Segment Description	Desig	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
16. Mainstem of the Little Snake River from a point immediately above the confluence with Powder Wash to the confluence with the Yampa River.		Aq Life Warm 2 Recreation ~~1a~~E Agriculture	T=TVS(WS-IV) °C D.O.=5.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=6221~~1100~~(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
17a. All tributaries to the Little Snake River from its first crossing of the Colorado/Wyoming border to a point immediately below the confluence with Fourmile Creek, except for the specific listing in Segment 18.		Aq Life Cold 1 Recreation ~~1b~~P Agriculture	T=TVS(CS-II) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=325/100ml~~ E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100~~10~~	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS ~~CrIII(ac)=50(Trec)~~ CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
17b. All tributaries to the Little Snake River from a point immediately below the confluence with Fourmile Creek to the confluence with the Yampa River ~~except for the specific listings in Segment 18~~.	UP	Aq Life ~~Cold~~ Warm 2 Recreation ~~2~~N Agriculture	T=TVS(WS-IV) °C D.O.= 5.0~~6.0~~ mg/l ~~D.O.(sp)=7.0 mg/l~~ pH = 6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	CN~~(ac)~~=0.2 NO_2~~(ac)~~=10 NO_3~~(ac)~~=100	B~~(ch)~~=0.75	As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec)	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mn(ch)=200(Trec)	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	
18. Mainstem of Slater Creek, including all tributaries~~,~~ and wetlands, ~~lakes, and reservoirs,~~ from the source to a point just below the confluence with Second Creek~~the Little Snake River~~. The mainstems of Fourmile and Willow Creeks, including all wetlands and tributaries, from their sources to the boundary of the Routt National Forest.		Aq Life Cold 1 Recreation ~~1b~~P Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=325/100ml~~ E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
19a. Mainstem of the Green River within Colorado (Moffat County) from its entry at the Utah/Colorado border to a point just above the confluence with the Yampa River..		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-II) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
19b. Mainstem of the Green River within Colorado (Moffat County) from a point just above the confluence with the Yampa River to its exit at the Utah/Colorado border.		Aq Life Warm 1 Recreation E Water Supply Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E. Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2 (ac)=0.019 Cl_2 (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
20. All tributaries to the Green River in Colorado, including all wetlands, ~~lakes and reservoirs,~~ except for the specific listings in Segments 21, 22a, 22b and 22c.~~;~~ a~~A~~ll tributaries to the Yampa River from a point immediately below the confluence with the Little Snake River to the confluence with the Green River, except for the specific listings in segments 15 through 18.	~~UP~~	Aq Life ~~Warm~~ Cold 2 Recreation ~~1a~~E Agriculture	T=TVS(CS-II) °C D.O. = 6.0~~5.0~~ mg/l D.O.(sp) =7.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	CN(ac)=0.2 NO_2~~(ac)~~=10 NO_3~~(ac)~~=100	B~~(ch)~~=0.75	As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec)	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mn(ch)=200(Trec)	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	
21. Mainstem of Beaver Creek, including all tributaries and wetlands, from the source to the confluence with the Green River within Colorado.		Aq Life Cold 1 Recreation ~~2~~N Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11 **BASIN: Lower Yampa River/Green River** Stream Segment Description	Desig	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
22a. Mainstem of Vermillion Creek, including all tributaries and wetlands, from the Colorado/Wyoming border to a point just below the confluence with Talamantes Creek ~~the Green River, except for the specific listing in Segment 22b~~.		Aq Life ~~Warm 2~~ Cold 1 Agriculture Recreation ~~2~~N	T=TVS(CS-I) °C D.O.=~~6.05.0~~ mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	~~As(ch)=100(Trec)~~ As(ac)=340 As(ch)=7.6(Trec) ~~Cd(ac/ch)=TVS~~ Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS ~~Ag(ac/ch)=TVS~~ Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
22b. Mainstem of Vermillion Creek, including all tributaries and wetlands, from a point just below the confluence with Talamantes Creek to the confluence with the Green River, except for the specific listing in segment 22c.		Aq Life Warm 2 Recreation N Agriculture	T=TVS(WS-IV) °C D.O.= 5.0 mg/l pH = 6.5-9.0 E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2 (ac)=0.019 Cl_2 (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
22~~b~~c. Mainstem of Vermillion Creek from HWY 318 to the confluence with the Green River.		Aq Life Warm 2 Recreation ~~1a~~E Agriculture	T=TVS(WS-IV) °C D.O.=5.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100~~10~~	As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS	Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
23. All lakes and reservoirs tributary to the Yampa River, from a point just below the confluence with Elkhead Creek to a point just below the confluence with the Little Snake River except for the specific listings in segments 24-32. This segment includes Martin Cull Reservoir, and OVO Reservoir.		Aq Life Warm 1 Recreation U Agriculture	T=TVS(WL) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E. Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2 (ac)=0.019 Cl_2 (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	As(ac)=340 As(ch)=7.6(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
24. Freeman Reservoir and Aldrich Lakes.		Aq Life Cold 1 Recreation E Agriculture	T=TVS(CL) °C D.O.= 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 E. Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2 (ac)=0.019 Cl_2 (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
25. All lakes and reservoirs tributary to Fortification Creek from the source to the confluence of the North and South Forks. All lakes and reservoirs tributary to Little Cottonwood Creek from the source to the confluence with Fortification Creek, except for the specific listing in segment 24. All lakes and reservoirs tributary to Little Bear Creek from the source to the confluence with the Dry Fork.		Aq Life Cold 1 Recreation U Water Supply Agriculture	T=TVS(CL) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E. Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2 (ac)=0.019 Cl_2 (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
26. All lakes and reservoirs tributary to Fortification Creek, including Ralph White Lake, except for specific listings in segments 24 and 25.		Aq Life Warm 1 Recreation U Agriculture	T=TVS(WL) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E. Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2 (ac)=0.019 Cl_2 (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	As(ac)=340 As(ch)=7.6(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
27. All lakes and reservoirs tributary to Milk Creek from a point just below the confluence with Clear Creek to the confluence with the Yampa River, including Wilson Reservoir.		Aq Life Warm 1 Recreation U Water Supply Agriculture	T=TVS(WL) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E. Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2 (ac)=0.019 Cl_2 (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
28. All lakes and reservoirs tributary to the East Fork of the Williams Fork River, within the boundaries of the Flat Tops Wilderness Area.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E. Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2 (ac)=0.019 Cl_2 (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=.0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11 **BASIN: Lower Yampa River/Green River** Stream Segment Description	Desig	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
29. All lakes and reservoirs tributary to the East and South Forks of the Williams Fork River, and lakes and reservoirs tributary to the mainstem of the Williams Fork River, from the source to the Highway 13/789 bridge at Hamilton, except for the specific listings in segment 28.		Ag Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2 (ac)=0.019 Cl_2 (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
30. All lakes and reservoirs tributary to Milk Creek from the source to a point just below the confluence with Clear Creek. All lakes and reservoirs tributary to Morapos Creek from the source to the Moffat/Rio Blanco County line.		Ag Life Cold 1 Recreation U Agriculture	T=TVS(CL) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2 (ac)=0.019 Cl_2 (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100 Cl=250	As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
31. All lakes and reservoirs tributary to Slater Creek, from the source to a point just below the confluence with Second Creek, including Slater Creek Lake. All lakes and reservoirs tributary to Fourmile and Willow Creeks from their sources to the boundary of the Routt National Forest.		Ag Life Cold 1 Recreation U Water Supply Agriculture	T=TVS(CL) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2 (ac)=0.019 Cl_2 (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
32. All lakes and reservoirs tributary to the Yampa River from a point just below the confluence with the Little Snake River to the confluence with the Green River. All lakes and reservoirs tributary to the Green River in Colorado, including Hog Lake, except for specific listings in segment 33.		Ag Life Warm 1 Recreation E Agriculture	T=TVS(WL) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E. Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2 (ac)=0.019 Cl_2 (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	As(ac)=340 As(ch)=7.6(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
33. All lakes and reservoirs tributary to Beaver Creek from the source to the confluence with the Green River. All lakes and reservoirs tributary to Vermillion Creek from the Colorado/Wyoming border to a point just below the confluence with Talamantes Creek.		Ag Life Cold 1 Recreation U Water Supply Agriculture	T=TVS(CL) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126 /100ml	NH_3(ac/ch)=TVS Cl_2 (ac)=0.019 Cl_2 (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11 **BASIN: White River** Stream Segment Description	Desig	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
1. All tributaries to the White River, including all wetlands, ~~lakes and reservoirs,~~ which are within the boundaries of the Flat Tops Wilderness Area.	OW	Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
2. Deleted.									
3. Mainstem of the North Fork of the White River and mainstem of the White River from the Flat Tops Wilderness Area boundary to a point immediately above the confluence with Miller Creek.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
4. All tributaries to the North Fork of the White River, including all wetlands, ~~lakes and reservoirs,~~ from the Flat Tops Wilderness Area boundary to the confluence with the South Fork of the White River except for the specific listings in Segment 1.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
5. Deleted.									
6. Mainstem of the South Fork of the White River, including all tributaries~~,~~ and wetlands, ~~lakes, and reservoirs,~~ from the boundary of the Flat Tops Wilderness Area to the confluence with the North Fork of the White River.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
7. Mainstem of the White River from a point immediately above the confluence with Miller Creek to a point immediately above the confluence with Piceance Creek.		Aq Life Cold 1 Water Supply Agriculture Dec 1 to March 1 Recreation ~~1b~~P March 2 to Nov. 30 Recreation ~~1a~~E	T=TVS(CS-II) °C D.O.= 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 Dec. 1 to March 1 ~~F.Coli=325/100ml~~ E.Coli=205/100ml March 2 to Nov. 30 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
8. All tributaries to the White River, including all wetlands, ~~lakes and reservoirs,~~ from the confluence of the North and South Forks to a point immediately above the confluence with Piceance Creek, which are within the boundaries of White River National Forest.		Aq Life Cold 1 Recreation ~~1b~~P Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=325/100ml~~ E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
9a. All tributaries to the White River, including all wetlands, from the confluence of the North and South Forks to a point immediately above the confluence with Flag~~Piceance~~ Creek, which are not within the boundary of national forest lands, except for the specific listings in Segments ~~9b~~ 9c, 9d and 10b.	~~UP~~	Aq Life Cold 2 Recreation ~~2~~N Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02-10(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11 **BASIN: White River** Stream Segment Description	Desig	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
9b. All tributaries to the White River, including wetlands, from a point immediately above the confluence with Flag Creek, to a point immediately above the confluence with Piceance Creek, which are not within the boundary of national forest lands.		Aq Life Cold 2 Recreation N Water Supply Agriculture	T=TVS(CS-II) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02-10(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
9~~b~~c. Mainstems of Flag Creek~~ and Sulphur Creek~~, including all tributaries and wetlands, from the~~their~~ source to a point just below the confluence with the East Fork of Flag Creek~~ their confluences with the White River~~.	~~UP~~	Aq Life Cold 2 6/1 to 8/31 Recreation ~~1a~~E 9/1 to 5/31Recreation ~~2~~N Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 6/1 to 8/31 ~~F.Coli=200/100ml~~ E.Coli-126/100ml 9/1 to 5/31 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02-10(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
9d. Mainstem of Sulphur Creek, including all tributaries and wetlands, from the source to the confluence with the White River. Mainstem of Flag Creek, including all tributaries and wetlands, from a point just below the confluence with the East Fork of Flag Creek to the confluence with the White River.		Aq Life Cold 2 6/1 to 8/31 Recreation E 9/1 to 5/31 Recreation N Water Supply Agriculture	T=TVS(CS-II) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 6/1 to 8/31 E.Coli-126/100ml 9/1 to 5/31 E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02-10(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
10a. All lakes and reservoirs tributary to the White River, from the confluence of the North and South Forks of the White River to a point immediately above the confluence of the White River and Piceance Creek, except for specific listing in Segments 11, 25 and 27.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CL) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
10b. Mainstem of Big Beaver Creek ~~(excluding Lake Avery)~~, Miller Creek, and North Elk Creek, including their tributaries and wetlands, from their boundary with national forest lands to their confluences with the White River. Mainstem of Coal Creek, including all tributaries~~,~~ and wetlands, ~~lakes and reservoirs,~~ from the source to the confluence with the White River.		Aq Life Cold 1 Recreation ~~1b~~P Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=325/100ml~~ E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
11. Rio Blanco Lake and Taylor Draw Reservoir (a.k.a. Kenney Reservoir).		Aq Life Warm 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(WL) °C D.O. = 5.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac/ch)=50~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=TVS CrIII(ac~~/ch~~)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
12. Mainstem of the White River from a point immediately above the confluence with Piceance Creek to a point immediately above the confluence with Douglas Creek ~~including Taylor Draw Reservoir~~.		Aq Life Warm 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
13a. All tributaries to the White River, including all wetlands, ~~lakes and reservoirs~~ from a point immediately below the confluence with Piceance Creek to a point immediately above the confluence with Douglas Creek, except for the specific listings in Segments 13b through 20.	UP	Aq Life Warm 2 Recreation ~~2~~N Agriculture	T=TVS(WS-IV) °C D.O. = 5.0 mg/l pH = 6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	CN(ac)=0.2 NO_2~~(ac)~~=10 NO_3~~(ac)~~=100	B~~(ch)~~=0.75	As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec)	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mn(ch)=200(Trec)	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11 **BASIN: White River** Stream Segment Description	Desig	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
13b. Mainstem of Yellow Creek, including all tributaries, from the source to the confluence with the White River.	~~UP~~	Aq Life Warm 2 Recreation ~~2~~N Agriculture	T=TVS(WS-IV) °C D.O. = 5.0 mg/l pH = 6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75~~5~~ NO_2=10 NO_3=100	~~As(ac/ch)=TVS~~ As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	~~Temporary modifications for all numeric standards = current conditions. type iii~~ ~~Expiration date of 2/28/09.~~
14. Mainstem of Piceance Creek from the source to a point just below the confluence with Black Sulphur Creek~~the Emily Oldhand diversion dam~~.		Aq Life Cold 1 Recreation ~~1b~~P Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=325/100ml~~ E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	~~As(ch)=100(Trec)~~ As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
15. Mainstem of Piceance Creek from a point just below the confluence with Black Sulphur Creek ~~the Emily Oldhand diversion dam~~ to the confluence with the White River. The Dry Fork of Piceance Creek, including all tributaries and wetlands, from a point just below the confluence with Little Reigan Gulch to the confluence with Piceance Creek.		Aq Life Warm 2 Recreation ~~1b~~P Agriculture	T=TVS(WS-IV) °C D.O.= 5.0 mg/l pH = 6.5-9.0 ~~F.Coli=325/100ml~~ E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100 ~~10~~ Cl=250	As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
16. All tributaries to Piceance Creek, including all wetlands, ~~lakes and reservoirs~~ from the source to the confluence with the White River, except for the specific listings in Segments 17, 18, 19 and 20.	~~UP~~	Aq Life Warm 2 Recreation ~~1b~~P Agriculture	T=TVS(WS-IV) °C D.O.= 5.0 mg/l pH = 6.5-9.0 ~~F.Coli=325/100ml~~ E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100 ~~10~~ Cl=250	As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
17. Stewart Gulch from the sources of the East Middle, and West Forks to the confluence with Piceance Creek. ~~Mainstem of Willow Creek from the source to the confluence with Piceance Creek. Mainstem of Dry Fork of the Piceance including all tributaries, wetlands, lakes and reservoirs from the source to the confluence with Piceance Creek.~~	~~UP~~	Aq Life Cold 2 Recreation ~~2~~N Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100 ~~10~~	~~As(ch)=100(Trec)~~ As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Fish Ingestion
18. ~~Deleted.~~ Mainstem of the Dry Fork of Piceance Creek, including all tributaries and wetlands, from the source to a point just below the confluence with Little Reigan Gulch.		Aq Life Cold 1 Recreation N Agriculture	T=TVS(CS-II) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2 (ac)=0.019 Cl_2 (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
19. Mainstem of Fawn Creek from the source to the confluence with Black Sulphur Creek.	~~UP~~	Aq Life Cold 2 Recreation ~~1b~~P Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=325/100ml~~ E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100 ~~10~~	As(ac)=340 As(ch)=100(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
20. Mainstems of Black Sulphur Creek including all tributaries and wetlands ~~and Hunter Creeks~~ from the~~their~~ source~~s~~ to the~~their~~ confluence~~s~~ with Piceance Creek.		Aq Life Cold 1 Recreation ~~2~~N Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	~~As(ch)=100(Trec)~~ As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11 **BASIN: White River** Stream Segment Description	Desig	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
21. Mainstem of the White River from a point immediately above the confluence with Douglas Creek to the Colorado/Utah border.		Aq Life Warm 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(~~ac/~~ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modification. NH_3(ac/~~ch~~)=TVS(old) NH_3(ch)=0.06 (Type i). Expiration date of 12/31/2011.
22. All tributaries to the White River, including all wetlands, ~~lakes and reservoirs,~~ from a point immediately above the confluence with Douglas Creek to the Colorado/Utah border, except for specific listing in Segment 23.	~~UP~~	Aq Life Warm 2 Recreation ~~1b~~P Agriculture	T=TVS(WS-IV) °C D.O. = 5.0 mg/l pH = 6.5-9.0 ~~F.Coli=325/100ml~~ E.Coli=205/100ml	CN(ac)=0.2 NO_2~~(ac)~~=10 NO_3~~(ac)~~=100	~~B(ch)~~=0.75	As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec)	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mn(ch)=200(Trec)	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	
23. Mainstems of East Douglas Creek and West Douglas Creek, including all tributaries, from their sources to their confluence.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I) °C D.O.= 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
24. All lakes and reservoirs tributary to the White River, which are within the boundaries of the Flat Tops Wilderness Area, including Trappers Lake.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2 (ac)=0.019 Cl_2 (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
25. Lake Avery (a.k.a Big Beaver Reservoir).		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CLL) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2 (ac)=0.019 Cl_2 (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
26. All lakes and reservoirs tributary to the North and South Forks of the White River, from the Flat Tops Wilderness Area boundary to the confluence with the North and South Forks of the White River.		Aq Life Cold 1 Recreation U Water Supply Agriculture	T=TVS(CL) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2 (ac)=0.019 Cl_2 (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
27. All lakes and reservoirs tributary to the White River, from a point immediately above the confluence with Piceance Creek to the Colorado/Utah border, except for the specific listings in segment 11.		Aq Life Warm 1 Recreation U Agriculture	T=TVS(WL) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2 (ac)=0.019 Cl_2 (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	As(ac)=340 **As(ch)=7.6(Trec)** Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11 **BASIN: Lower Colorado River** Stream Segment Description	Desig	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
1. Mainstem of Colorado River from the confluence with the Roaring Fork River to immediately below the confluence with Rifle ~~Parachute~~ Creek.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-II) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
2. Mainstem of Colorado River from immediately below the confluence with Rifle ~~Parachute~~ Creek to immediately above the confluence of the Gunnison River.		Aq Life Warm 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modification: NH_3(ac/~~ch~~)=TVS(old) NH_3(ch)=0.06 (Type i). Expiration date of 12/31/2011.
3. Mainstem of Colorado River from immediately above the confluence of the Gunnison River to the Colorado-Utah state line.		Aq Life Warm 1 Recreation ~~1a~~E Agriculture	T=TVS(WS-II) °C D.O. =5.0~~6.0~~ mg/l ~~D.O.(sp)=7.0 mg/l~~ pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	~~As(ch)=100(Trec)~~ As(ac)=340 As(ch)=7.6(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
4a. All tributaries, including wetlands, to the Colorado River from the confluence with the Roaring Fork River to a point immediately below the confluence with Parachute Creek except for the specific listings in Segments 4b, 4c, 4d, 5, 6, 7a, 7b, 8, 9a, 10, 11a - h, and 12a.		Aq Life Cold 2 Recreation ~~2~~N Water Supply Agriculture	T=TVS(CS-II) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02-10(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
4b. South Canyon Hot Springs.		Aq Life Warm 2 Recreation ~~1a~~E	D.O.=5.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS ~~CrIII(ac)=50(Trec)~~ CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
4c. The mainstem of South Canyon Creek from the South Canyon Hot Springs to the confluence with the Colorado River.		Aq Life Warm 1 Recreation E Water Supply Agriculture	T=TVS(WS-IV) °C D.O.=5.0 mg/l pH=6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2 (ac)=0.019 Cl_2 (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
4d. The mainstem of Dry Hollow Creek, including all tributaries and wetlands, from the source to the confluence with the Colorado River.	UP	Aq Life Warm 2 Recreation N Water Supply Agriculture	T=TVS(WS-IV) °C D.O.= 5.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2 (ac)=0.019 Cl_2 (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02-10(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
5. All tributaries to the Colorado River, including wetlands, ~~lakes and reservoirs,~~ which are within the boundaries of White River National Forest, except for the specific listing in Segment 9a.		Aq Life Cold 1 Recreation ~~1b~~P Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=325/100ml~~ E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11 **BASIN: Lower Colorado River** Stream Segment Description	Desig	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
6. Mainstem of Oasis Creek including all tributaries from boundary of White River National Forest to the confluence with the Colorado River.	~~UP~~	Aq Life Cold 2 Recreation ~~1b~~P Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=325/100ml~~ E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02-10(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
7a. Mainstem of Mitchell, Canyon, Elk, Garfield, ~~Divide,~~ Beaver, Cache, and Battlement Creeks, including all tributaries~~,~~ and wetlands, ~~lakes and reservoirs,~~ from the boundary of the White River National Forest to their confluences with the Colorado River.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
7b. Mainstem of Divide Creek, including all tributaries and wetlands, from the boundary of the White River National Forest to the confluence with the Colorado River.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/ pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
8. Mainstem of Northwater and Trapper Creeks, including all tributaries~~,~~ and wetlands, ~~lakes and reservoirs~~ from their sources to the confluence with the East Middle Fork of Parachute Creek.		Aq Life Cold 1 Recreation ~~2~~N Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
9a. Mainstem of Rifle Creek, including all tributaries and wetlands, from its source to County Road 251.		Aq Life Cold 1 ~~Recreation 2~~ Recreation E Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=~~630~~126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	~~As(ch)=100(Trec)~~ As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
9b. All lakes and reservoirs tributary to the Colorado River from the confluence of the Colorado and the Roaring Fork River to a point immediately below the confluence of the Colorado River and Parachute Creek, and all lakes and reservoirs within the White River National Forest or the Grand Mesa National Forest, ~~including Rifle Gap Reservoir and Harvey Gap Reservoir,~~ except for the specific listing ~~lakes and reservoirs~~ in segments ~~5, 6, 7, 8, 10, 11 a-h and 12.~~		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CL) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
10. Mainstem of Rifle Creek, including all tributaries~~,~~ and wetlands, ~~lakes and reservoirs,~~ from County Road 251 to the confluence with the Colorado River.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-II) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
11a. Mainstem of the West Fork of Parachute Creek, including all tributaries, from its source to West Fork Falls; mainstem of East Fork of Parachute Creek from a point immediately below the mouth of First Anvil Creek to the east boundary line of S27, T5S, R95W.		Aq Life Cold 1 Recreation ~~2~~N Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11 **BASIN: Lower Colorado River** Stream Segment Description	Desig	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
11b. Mainstem of the West Fork of Parachute Creek from West Fork Falls to the confluence with Parachute Creek; mainstem of the Middle Fork of Parachute Creek from the north boundary line of S19, T5S, R95W to the confluence with East Middle Fork of Parachute Creek.	~~UP~~	Aq Life Cold 2 Recreation ~~2~~N Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml	CN(ac)=0.2 NO_2~~(ac)~~=10 NO_3~~(ac)~~=100	B~~(ch)~~=0.75	As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec)	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mn(ch)=200(Trec)	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	
11c. Mainstem of the Middle Fork of Parachute Creek including all tributaries (includes Davis Gulch and tributaries), from the source to the north boundary line of S19, T5S, R95W.	~~UP~~	Aq Life Cold 2 Recreation ~~2~~N Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	CN(ac)=0.2 NO_2~~(ac)~~=10 NO_3~~(ac)~~=100	B~~(ch)~~=0.75	As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec)	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mn(ch)=200(Trec)	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	
11d. Mainstem of East Middle Fork of Parachute Creek, including all tributaries, from its source to the confluence with Middle Fork of Parachute Creek; mainstem of Middle Fork of Parachute Creek from the confluence with East Middle Fork to a point immediately above the confluence with the West Fork of Parachute Creek.		Aq Life Cold 1 Recreation ~~2~~N Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl~~2~~$_2$(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	~~As(ac/ch)=50~~ As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=~~50~~TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
11e. That portion of the mainstem of the East Fork of Parachute Creek within Sections 27, 28, and 29, T5S, R95W.	~~UP~~	Aq Life Cold 2 Recreation ~~2~~N Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	CN(ac)=0.2 NO_2~~(ac)~~=1.0~~10~~ NO_3~~(ac)~~=10~~100~~	S=0.05 B~~(ch)~~=0.75 Cl=250 SO_4=WS	~~As(ch)=100(Trec)~~ As(ch)=0.02-10(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ac)=50(Trec) CrIII(ch)=100(Trec)	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Fe(ch)=WS(dis) Pb(ch)=100(Trec) Mn(ch)=WS(dis) Mn(ch)=200(Trec)	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	
11f. Mainstem of the East Fork of Parachute Creek from the west boundary line of S29, T5S, R95W to the confluence with Middle Fork of Parachute Creek.		Aq Life Cold 1 Recreation ~~2~~N Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl~~2~~$_2$(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
11g. All tributaries to East Fork Parachute Creek on the south side of the East Fork Parachute Creek from a point immediately below First Anvil Creek to the confluence with Parachute Creek; all tributaries to Parachute Creek on the east side of Parachute Creek from a point immediately below the East Fork of Parachute Creek to the confluence with the Colorado River; and all tributaries to the Colorado River on the north side of the Colorado River from a point immediately below Cottonwood Creek to the confluence with Parachute Creek.		Aq Life Cold 2 Recreation ~~2~~N Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	CN(ac)=0.2 NO_2~~(ac)~~=10 NO_3~~(ac)~~=100	B~~(ch)~~=0.75	As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec)	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mn(ch)=200(Trec)	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	
11h. Mainstem of Parachute Creek from the confluence of the West and East Forks to the confluence with the Colorado River.		Aq Life Cold 2 Recreation ~~1b~~P Agriculture	T=TVS(CS-II) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 ~~F.Coli=325/100ml~~ E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl~~2~~$_2$(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	As(ac)=340 As(ch)=100(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
12a. All tributaries to East Fork Parachute Creek from its source to a point immediately below the mouth of First Anvil Creek.		Aq Life Cold 1 Recreation ~~2~~N Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=2000/100ml~~ E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl~~2~~$_2$(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100 ~~10~~ ~~Cl=250~~	~~As(ac/ch)=TVS~~ As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11 **BASIN: Lower Colorado River** Stream Segment Description	Desig	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
12b. All tributaries to the Colorado River including wetlands, from a point immediately below the confluence of Parachute Creek to a point immediately below the confluence with Roan Creek		Aq Life Cold 2 Recreation P Water Supply Agriculture	T=TVS(CS-II) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2 (ac)=0.019 Cl_2 (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02-10(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
13a. All tributaries to the Colorado River including wetlands, from a point immediately below the confluence of Roan ~~Parachute~~ Creek to the Colorado/Utah border except for the specific listings in Segments 13b through 19.	~~UP~~	Aq Life Warm 2 Recreation ~~1b~~P Water Supply Agriculture	T=TVS(WS-IV) °C D.O.= 5.0 mg/l pH = 6.5-9.0 ~~F.Coli=325/100ml~~ E.Coli=205/100ml	CN(ac)=0.2 NO_2~~(ac)~~=1.0~~10~~ NO_3~~(ac)~~=10~~100~~	S=0.05 ~~B(ch)~~=0.75 Cl=250 SO_4=WS	~~As(ch)=100(Trec)~~ As(ch)=0.02-10(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ac)=50(Trec) CrIII(ch)=100(Trec)	Fe(ch)=WS(dis) CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mn(ch)=WS(dis) Mn(ch)=200(Trec)	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	
13b. All tributaries to the Colorado River, including wetlands, from the Government Highline Canal Diversion to a point immediately below Salt Creek, downgradient from the Government Highline Canal, the Orchard Mesa Canal No. 2, Orchard Mesa Drain, Stub Ditch and the northeast Colorado National Monument boundary, except for specific listings in Segment 13c.	UP	Aq Life Warm 2 Recreation ~~1a~~E Agriculture	T=TVS(WS-II) °C D.O.= 5.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl~~2~~$_2$(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modifications: ~~Se(ch)=existing ambient quality.~~ ~~Persigo Wash from Grand Junction discharge to confluence with the Colorado River; and Little Salt Wash from Fruita discharge to confluence with the Colorado River for D.O., F. Coli., NH_3, Cd, Cu, Ag, Ni, B, Hg, NO_2 = existing quality.~~ ~~type iii~~ ~~Expiration date of 2/28/09.~~ NH_3(ac~~/ch~~)=TVS(old) NH_3(ch)=0.06 (Type i). Expiration date of 12/31/2011.
13c. Walker Wildlife Area Ponds.		Aq Life Warm 1 Recreation ~~1a~~E Agriculture	T=TVS(WL) °C D.O.= 5.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl~~2~~$_2$(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	~~As(ch)=100(Trec)~~ As(ac)=340 As(ch)=7.6(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
14a. Mainstem of Roan Creek including all wetlands~~,~~ and tributaries, ~~lakes, and reservoirs,~~ from its source to a point immediately ~~above~~ below the confluence with Clear Creek, except for the specific listing in segment 14b.		Aq Life Cold 1 Recreation ~~1b~~P Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)= 7.0 mg/l pH=6.5-9.0 ~~F.Coli=325/100ml~~ E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl~~2~~$_2$(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
14b. Mainstem of Clear Creek, including all wetlands and tributaries, from the source to the confluence with Roan Creek.		Aq Life Cold 1 Recreation P Water Supply Agriculture	T=TVS(CS-II) °C D.O.=6.0 mg/l D.O.(sp)= 7.0 mg/l pH=6.5-9.0 E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2 (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
14~~b~~c. Mainstem of Roan Creek including all tributaries~~,~~ and wetlands, ~~lakes and reservoirs,~~ from a point immediately below the confluence with Clear Creek to the confluence with the Colorado River.		Aq Life Warm 1 Recreation ~~1b~~P Water Supply Agriculture	T=TVS(WS-III) °C D.O.=5.0 mg/l pH=6.5-9.0 ~~F.Coli=325/100ml~~ E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl~~2~~$_2$(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ch)=100(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) ~~CrIII(ac/ch)=TVS~~ CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11 **BASIN: Lower Colorado River** Stream Segment Description	Desig	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
15. Mainstem of Plateau Creek including all tributaries~~,~~ and wetlands, ~~lakes, and reservoirs,~~ from its source to the HWY 330 bridge in Collbran. ~~the confluence with the Colorado River.~~ The mainstems of Grove Creek, Big Creek, Cottonwood Creek, Bull Creek, Spring Creek, Coon Creek, and Mesa Creek, including all wetlands and tributaries, from their sources to their confluences with Plateau Creek.		Aq Life Cold 1 Recreation ~~1a~~E Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)= 7.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS(sc)	
16. ~~Deleted.~~ Mainstem of Plateau Creek including all tributaries and wetlands, from the HWY 330 bridge in Collbran, to the confluence with the Colorado River, excluding specific listings in segment 15.		Aq Life Warm 1 Recreation E Water Supply Agriculture	T=TVS(WS-III) °C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
17. Mainstem of Rapid Creek, including all tributaries~~,~~ and wetlands, ~~lakes and reservoirs,~~ from its source to the confluence with the Colorado River.		Aq Life Cold 1 Recreation ~~1b~~P Water Supply Agriculture	T=TVS(CS-II) °C D.O. = 6.0~~5.0~~ mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=~~126~~205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
18. Mainstem of Little Dolores River, including all tributaries~~,~~ and wetlands, ~~lakes and reservoirs,~~ from its source to immediately below the confluence with Hay Press Creek.		Aq Life Cold 1 Recreation ~~1b~~P Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 ~~F.Coli=325/100ml~~ E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	~~As(ac)=50(Trec)~~ As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
19. All lakes and reservoirs tributary to the Colorado River from a point immediately below the confluence of the Colorado River and Parachute Creek to the Colorado-Utah border, except for specific listings in segments 9b, 13c, 20, and 21. This segment includes Highline Reservoir..		Aq Life Warm 1 Recreation ~~1a~~E Agriculture	T=TVS(WL) °C D.O.=5.0 mg/l pH=6.5-9.0 ~~F.Coli=200/100ml~~ E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=100	~~As(ch)=100(Trec)~~ As(ac)=340 As(ch)=7.6(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
20. Rifle Gap Reservoir, Harvey Gap Reservoir, and Vega Reservoir.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CLL) °C D.O.= 6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
21. All lakes and reservoirs tributary to Roan Creek from the source to a point just below the confluence with Clear Creek. All lakes and reservoir tributary to Rapid Creek from the source to the confluence with the Colorado River. All lakes and reservoirs tributary to the Little Dolores River from the source to a point immediately below the confluence with Hay Press Creek.		Aq Life Cold 1 Recreation U Water Supply Agriculture	T=TVS(CL) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

PROPOSED
WATER QUALITY CONTROL DIVISION

37.25 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; JUNE 2008 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. Waterbody Segmentation

The Commission decided to split lakes/reservoirs from segments that contained 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:

Lower Yampa/Green River segments: 3a, 3c, 4, 6a, 7, 8, 9, 12a, 18, and 20.
White River segments: 1, 4, 6, 8, 10b, 12, 13a, 16, and 22.
Lower Colorado segments: 5, 7a, 8, 10, 14a, 14c, 15, 17, and 18.

The following lakes/reservoirs segments were created:

Lower Yampa/Green River segments: 23-33.
White River segments: 24-27.
Lower Colorado segments: 20 and 21.

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:

Lower Yampa/Green River 1: This segment was deleted and the mainstem of the Yampa encompassed by this segment was moved to LCLY02. The Commission determined that this segment had been mis-classified as cold-water habitat. The Commission combined the listings in LCLY01 with LCLY02 because they are both warm-water habitat, cover a geographically contiguous area, and the Commission determined they should have identical anti-degradation designation, use classifications, and standards.

Lower Yampa/Green River 2: The segment description was amended to include the mainstem of the Yampa from the confluence of Elkhead Creek to the confluence with Lay Creek, which was deleted from segment LCLY01. The Commission combined these segments because they are warm-water habitat, cover a geographically contiguous area, and the Commission determined they should both have identical anti-degradation designation, use classifications, and standards. This segment now encompasses all portions of the Yampa mainstem that are critical habitat for the federally endangered razorback sucker.

Lower Yampa/Green River 3a: The segment description was amended to include all tributaries and wetlands to the Yampa between Lay Creek and the Little Snake River, which were deleted from segment LCLY14. The Commission combined these segments because they covered a geographically contiguous area, and had identical anti-degradation designation, use classifications, and standards. Segments 17a, 17b, and 18 were added to the listings specifically excluded from this segment.

Lower Yampa/Green River 3c: The segment description was amended to include Milk Creek, including tributaries and wetlands, from the confluence with Clear Creek to County Rd 15 in Thornburg. The Commission determined that this portion of Milk Creek is warm-water habitat, and moved it to this segment from LCLY12a to facilitate the adoption of appropriate temperature standards.

Lower Yampa/Green River 4: The segment description was amended to include the North Fork of Fortification Creek and Little Cottonwood Creek. The Commission determined that these streams are cold-water habitat and moved them to this segment from LCLY06a to facilitate the adoption of appropriate temperature standards.

Lower Yampa/Green River 6a: The segment description was amended to remove the North Fork of Fortification Creek from this segment. The Commission moved the North Fork of Fortification Creek to segment LCLY04 to facilitate the adoption of appropriate temperature standards.

Lower Yampa/Green River 6b: This segment was deleted and Freeman Reservoir was moved to a newly created cold-water lakes/reservoirs segment LCLY24, where it was combined with Aldrich Lakes.

Lower Yampa/Green River 9: The segment description was amended to include the South Fork of the Williams Fork River, including tributaries and wetlands within the Routt National Forest. The Commission moved this section of the South Fork to this segment from LCLY11. The Commission combined these segments because they covered a contiguous area, and had identical anti-degradation designations, use classifications, and standards.

Lower Yampa/Green River 10: The segment description was amended to include wetlands and tributaries to the East Fork of the Williams Fork River from the boundary of the Routt National Forest to the confluence with the South Fork. The Commission determined these tributaries are cold-water habitat and moved them to this segment from LCLY03a to facilitate the adoption of appropriate temperature standards.

Lower Yampa/Green River 11: This segment was deleted and the South Fork of the Williams Fork River, including tributaries and wetlands, were incorporated into segment LCLY09. The Commission combined these segments because they covered a contiguous area, and had identical anti-degradation designation, use classifications, and standards.

Lower Yampa/Green River 12a: The segment description was amended to include all wetlands and tributaries to the South Fork and Beaver Creeks. The Commission moved these wetlands and tributaries from segment LCLY03a to facilitate the adoption of appropriate temperature standards. The segment description was amended to move the boundary for Milk Creek, upstream to Clear Creek. The Commission determined that this portion of Milk Creek between Clear Creek and County Road 15 in Thornburg is warm-water habitat, and moved it to segment LCLY03c. The segment description was also amended to remove Morapos Creek including all wetlands and tributaries from the Moffat/Rio Blanco County line to the confluence with the Williams Fork River. The Commission moved this portion of Morapos Creek to segment LCLY13a to facilitate the adoption of appropriate temperature standards.

Lower Yampa/Green River 12b: This segment was deleted and Aldrich Lakes were moved to a newly created cold-water lakes/reservoirs segment LCLY24, where they were combined with Freeman Reservoir.

Lower Yampa/Green River 13a: The segment description was amended to include the mainstem of Morapos Creek, including all wetlands and tributaries, from the Moffat/Rio Blanco County line to the confluence with the Williams Fork River. The Commission moved this portion of Morapos Creek from segment LCLY12a to this segment because it was geographically contiguous with the existing segment description, and to facilitate the adoption of appropriate temperature standards.

Lower Yampa/Green River 14: This segment was deleted and wetlands and tributaries to the Yampa from the confluence with Lay Creek to the confluence with the Little Snake River were incorporated into segment LCLY03a. The Commission combined these segments because they covered a geographically contiguous area, and had identical anti-degradation designation, use classifications, and standards.

Lower Yampa/Green River segment 17b: The segment description was amended to remove the exclusions for specific listing in segment 18, since none of the listings in LCLY18 would otherwise be encompassed by this segment.

Lower Yampa/Green River 18: The segment description was amended to remove Slater Creek, including all wetlands and tributaries, from the confluence with Second Creek to the confluence with the Little Snake River. The Commission moved this section of Slater Creek to segment LCLY17a to facilitate the adoption of appropriate temperature standards. The segment description was also amended to include the mainstems of Fourmile and Willow Creeks, including all wetlands and tributaries, from their sources to the boundary of the Routt National Forest. The Commission moved these sections of Fourmile and Willow Creeks to this segment from LCLY17a to facilitate the adoption of appropriate temperature standards.

Lower Yampa/Green River 19a: The segment description was amended to remove the portion of the Green River from the confluence with the Yampa to its exit at the Colorado/Utah border. The Commission moved that portion of the Green River to a newly created segment LCLY19b, to facilitate the adoption of appropriate temperature standards.

Lower Yampa/Green River 19b: This segment was created to encompass the Green River from the confluence with the Yampa to its exit at the Colorado/Utah border. The Commission created this segment from portions of the Green River split from segment LCLY19a to facilitate the adoption of appropriate temperature standards.

Lower Yampa/Green River 20: The segment description was amended so that segments 22a, 22b, and 22c were added to the listings specifically excluded from this segment.

Lower Yampa/Green River 22a: The segment description was amended to remove Vermillion Creek, including all tributaries and wetlands, from the confluence with Talamantes Creek to the confluence with the Green River. The Commission moved this portion of Vermillion Creek to a newly created segment LCLY22b to facilitate the adoption of appropriate temperature standards.

Lower Yampa/Green River 22b: This segment was created to encompass Vermillion Creek, including all tributaries and wetlands, from the confluence with Talamantes Creek to the confluence with the Green River, except for specific listings in segment 22c. The Commission created this segment from portions of Vermillion Creek split from segment LCLY22a to facilitate the adoption of appropriate temperature standards.

Lower Yampa/Green River 22c: This segment was formerly LCLY22b, but was changed to 22c to facilitate the splitting of segment LCLY22a.

Lower Yampa/Green River 23: This segment was created to encompass lakes and reservoirs tributary to the Yampa River from the confluence with Elkhead Creek to below the confluence with the Little Snake River. This segment includes lakes/reservoirs formerly in segments LCLY03a and LCLY14.

Lower Yampa/Green River 24: This segment was created to encompass Freeman Reservoir and Aldrich Lakes. Freeman Reservoir was formerly in segment LCLY06b, and Aldrich Lakes were formerly in segment LCLY12b. The Commission combined these two segments because they had identical anti-degradation designations, use classifications, and standards.

Lower Yampa/Green River 25: This segment was created to encompass warm-water lakes tributary to the North and South Forks of Fortification Creek, Little Cottonwood Creek, and Little Bear Creek from the source to the confluence with the Dry Fork. The lakes/reservoirs tributary to the South Fork were formerly in segment LCLY04, those tributary to the North Fork and Little Cottonwood Creek were formerly in segment LCLY06a, and those tributary to Little Bear Creek were formerly in segment LCLY07.

Lower Yampa/Green River 26: This segment was created to encompass warm-water lakes and reservoirs tributary to Fortification Creek. This segment includes most of the lakes and reservoirs that were formerly in segment LCLY06a.

Lower Yampa/Green River 27: This segment was created to encompass warm-water lakes and reservoirs tributary to Milk Creek from the confluence with Clear Creek to the confluence with the Yampa River. This segment includes lakes/reservoirs formerly in segments LCLY03c and LCLY12a.

Lower Yampa/Green River 28: This segment was created to encompass the cold-water lakes and reservoirs within the boundaries of the Flat Tops Wilderness Area tributary and tributary to the East Fork of the Williams Fork River. The lakes and reservoirs in this segment were formerly in segment LCLY08.

Lower Yampa/Green River 29: This segment was created to encompass cold-water lakes and reservoirs tributary to the East and South Forks of the Williams Fork River, and the mainstem of the Williams Fork River from the source to the Highway 13/789 bridge at Hamilton. Lakes and reservoirs tributary to the East Fork were formerly in segment LCLY09. Lakes and reservoirs tributary to the South Fork were formerly in segment LCLY11. Lakes and reservoirs tributary to the Williams Fork from the boundary of the Routt National Forest to the bridge in Hamilton were formerly in segment LCLY03a.

Lower Yampa/Green River 30: This segment was created to encompass cold-water lakes and reservoirs tributary to Milk Creek from the source to the confluence with Clear Creek, and lakes and reservoirs tributary to Morapos Creek from the source to the Moffat/Rio Blanco Country Line. Lakes and reservoirs tributary to Milk Creek were formerly in segment LCLY12a. Lakes and reservoirs tributary to Morapos Creek were formerly in segment LCLY03a.

Lower Yampa/Green River 31: This segment was created to encompass cold-water lakes and reservoirs tributary to Slater Creek from the source to the confluence with Second Creek, and lakes and reservoirs tributary to Fourmile and Willow Creeks within the Routt National Forest. Lakes and reservoirs tributary to Slater Creek were formerly in segment LCLY18. All lakes and reservoirs tributary to Fourmile and Willow Creeks were formerly in segment LCLY14.

Lower Yampa/Green River 32: This segment was created to encompass warm-water lakes and reservoirs tributary to the Yampa River from a point just below the confluence with the Little Snake River to the confluence with the Green River, and lakes and reservoirs tributary to the Green River. Lakes and reservoirs in this segment were formerly in segment LCLY20.

Lower Yampa/Green River 33: This segment was created to encompass cold-water lakes and reservoirs tributary to Beaver Creek, and Vermillion Creek from the Colorado/Wyoming border to the confluence with Talamantes Creek. Lakes and reservoirs in this segment were formerly in segment LCLY20.

White River segment 9a: The segment description was amended to remove tributaries and wetlands to the White River, and not within a national forest, between Flag Creek and Piceance Creek. The Commission moved these tributaries and wetlands to segment LCWH09b to facilitate the adoption of appropriate temperature standards. Segments 9c and 9d were added to the list of segments specifically excluded from this segment, and segment 9b was removed from the list.

White River segment 9b: This segment was created to encompass the tributaries and wetlands to the White River between the confluence with Flag Creek and the confluence with Piceance Creek, and not

within a national forest. The Commission moved these tributaries and wetlands from segment LCWH09a to facilitate the adoption of appropriate temperature standards.

White River segment 9c: This segment was formerly LCWH09b, but was changed to segment 9c to facilitate the splitting of segment LCWH09a. The segment description was amended to remove Sulphur Creek and its wetlands and tributaries, and Flag Creek, including wetlands and tributaries, from the confluence with East Fork Flag Creek to the confluence with the White River. The Commission moved Sulphur Creek and the lower portion of Flag Creek to a newly created segment LCWH09d to facilitate the adoption of appropriate temperature standards.

White River segment 9d: This segment was created to encompass Sulphur Creek including wetlands and tributaries, and Flag Creek, including wetlands and tributaries, from the confluence with East Fork Flag Creek to the confluence with the White River. The Commission moved Sulphur Creek and the lower portion of Flag Creek from segment LCWH09c to facilitate the adoption of appropriate temperature standards.

White River segment 10a: The segment description was clarified by indicating that the segment ends at a point immediately above the confluence with Piceance Creek, so that lakes and reservoirs tributary to Piceance Creek are specifically excluded. Segments 25 and 27 were added to the listings specifically excluded from this segment.

White River segment 10b: The segment description was clarified by deleting the exclusion for Lake Avery, and adding wetlands to the segment description.

White River segment 11: The segment description was amended to include Taylor Draw Reservoir (a.k.a Kenney Reservoir). The Commission moved Taylor Draw from segment LCWH12 as part of a basin-wide effort to split lakes/reservoirs from stream segments, and to facilitate the adoption of appropriate temperature standards.

White River segment 12: The segment description was amended to remove Taylor Draw Reservoir. The Commission moved Taylor Draw to segment LCWH11 as part of a basin-wide effort to split lakes/reservoirs from stream segments, and to facilitate the adoption of appropriate temperature standards.

White River segment 14: The segment description was clarified to include the mainstem of Piceance Creek from the source to the confluence with Black Sulphur Creek instead of the Emily Oldhand diversion dam. The Emily Oldhand diversion dam could not be located. The Commission decided to end the segment at the confluence with Black Sulphur Creek to facilitate the adoption of appropriate temperature standards.

White River segment 15: The segment description was clarified to include the mainstem of Piceance Creek from the confluence with Black Sulphur Creek, instead of from the Emily Oldhand diversion dam, to the confluence with the White River. The Emily Oldhand diversion dam could not be located. The Commission decided to begin the segment at the confluence with Black Sulphur Creek to facilitate the adoption of appropriate temperature standards. The segment description was also amended to include the Dry Fork of Piceance Creek, including all tributaries and wetlands, from the confluence with Little Reigan Gulch to the confluence with Piceance Creek. The Commission moved the mainstem of the Dry Fork from segment LCWH17, and the tributaries and wetlands to this portion of the Dry Fork from segment LCWH16, to facilitate adoption of appropriate temperature standards.

White River segment 16: The segment description was amended so that segment 18 was added to the listings specifically excluded from this segment.

White River segment 17: The segment description was amended to remove Willow Creek, and the Dry Fork of Piceance Creek. The Commission moved Willow Creek to segment LCWH16, and moved the Dry

Fork of Piceance Creek to segments LCWH15 and LCWH18, to facilitate adoption of appropriate temperature standards.

White River segment 18: This segment was created to encompass the Dry Fork of Piceance Creek from the source to the confluence with Little Reigan Gulch. The Commission moved this portion of the Dry Fork from segment LCWH17 to facilitate the adoption of appropriate temperature standards.

White River segment 20: The segment description was amended to include all wetlands and tributaries to Black Sulphur Creek. The Commission moved these tributaries from segment LCWH16 to facilitate the adoption of appropriate temperature standards. The segment description was also amended to remove Hunter Creek from the segment. The Commission moved Hunter Creek to segment LCWH16 to facilitate the adoption of appropriate temperature standards.

White River segment 24: This segment was created in encompass cold-water lakes and reservoirs tributary to the White River, which are within the boundaries of the Flat Tops Wilderness Area. Lakes and reservoirs within this segment were formerly in segment LCWH01.

White River segment 25: This segment was created to encompass Lake Avery (a.k.a. Big Beaver Reservoir), which is the only cold lake in the White River basin greater than 100 acres surface area, and was formerly in segment LCWH10a.

White River segment 26: This segment was created to encompass other cold-water lakes and reservoirs tributary to the North and South Forks of the White River, from the Flat Tops Wilderness Area to the confluence of the North and South Forks. The lakes and reservoirs tributary to the North Fork were formerly in segment LCWH04, and the lakes and reservoirs tributary to the South Fork were formerly in segment LCWH06.

White River segment 27: This segment was created to encompass warm-water lakes and reservoirs tributary to the White River from Piceance Creek to the Colorado/Utah border. The lakes and reservoirs tributary to the White River from the confluence with Piceance Creek to the confluence with Douglas Creek were formerly in segment LCWH13a. The lakes and reservoirs tributary to Piceance Creek were formerly in segment LCWH16. The lakes and reservoirs tributary to the White River from the confluence with Douglas Creek to the Utah/Colorado border were formerly in segment LCWH22.

Lower Colorado segment 1: The segment description was amended to include the mainstem of the Colorado River from the confluence with Rifle Creek to the confluence with Parachute Creek. The Commission moved this portion of the Colorado River from segment LCLC02 to facilitate the adoption of appropriate temperature standards.

Lower Colorado segment 2: The segment description was amended to remove the mainstem of the Colorado River from the confluence with Rifle Creek to the confluence with Parachute Creek. The Commission moved this portion of the Colorado River to segment LCLC01 to facilitate the adoption of appropriate temperature standards.

Lower Colorado segment 4a: The segment description was amended so that segments 4c, 4d, 7a, 7b, 9a, and 12a were added to the listings specifically excluded from this segment.

Lower Colorado segment 4c: This segment was created to encompass the mainstem of South Canyon Creek from the South Canyon Hot Springs to the confluence with the Colorado River. The Commission split this portion of South Canyon Creek from segment LCLC04a to facilitate the adoption of appropriate temperature standards.

Lower Colorado segment 4d: This segment was created to encompass the mainstem of Dry Hollow Creek, including all tributaries and wetlands, from the source to the confluence with the Colorado River.

The Commission decided to split Dry Hollow Creek from segment LCLC04a to facilitate the adoption of appropriate temperature standards.

Lower Colorado segment 7a: The segment description was amended to remove Divide Creek from the boundary of the White River National Forest to the confluence with the Colorado River, including all tributaries and wetlands. The Commission decided to move this portion of Divide Creek to segment LCLC07b to facilitate the adoption of appropriate temperature standards.

Lower Colorado segment 7b: This segment was created to encompass Divide Creek, including all tributaries and wetlands, from the boundary of the White River National Forest to the confluence with the Colorado River. The Commission decided to move this portion of Divide Creek to this segment from LCLC07a to facilitate the adoption of appropriate temperature standards.

Lower Colorado segment 9b: The segment description was clarified by indicating that the segment ends at a point immediately below the confluence of the Colorado River and Parachute Creek, so that tributaries and wetlands tributary to Parachute Creek are specifically included. The segment description was also amended to include all lakes and reservoirs within the White River National Forest or the Grand Mesa National Forest. Lakes/reservoirs within the National Forests were moved to this segment from LCLC05, LCLC15, LCLC16 and LCLC19, to facilitate the adoption of appropriate temperature standards. The segment description was also amended to remove Rifle Gap Reservoir and Harvey Gap Reservoir. The Commission moved these large cold lakes to segment LCLC20 to facilitate the adoption of appropriate temperature standards. Segment 20 was added to the list of segments specifically excluded from this segment, and segments 5, 6, 7, 8, 10, 11a-h, and 12 were removed from that list.

Lower Colorado segment 12b: This segment was created to encompass tributaries to the Colorado River, including wetlands, from the confluence with Parachute Creek to the confluence with Roan Creek. The Commission moved these tributaries to this segment from LCLC13a, to facilitate the adoption of appropriate temperature standards.

Lower Colorado segment 13a: The segment description was amended to remove the tributaries to the Colorado River, including wetlands, from the confluence with Parachute Creek to the confluence with Roan Creek. The Commission moved these tributaries and wetlands to a newly created segment LCLC12b, to facilitate the adoption of appropriate temperature standards.

Lower Colorado segment 14a: The segment description was clarified by moving the end of the segment from above the confluence with Clear Creek to below the confluence with Clear Creek. Segment 14b was added to the list of segments specifically excluded from this segment.

Lower Colorado segment 14b: This segment was created to encompass Clear Creek, including all wetlands and tributaries, from the source to the confluence with Roan Creek. The Commission moved Clear Creek to this segment from LCLC14a to facilitate the adoption of appropriate temperature standards.

Lower Colorado segment 14c: This segment was formerly LCLC14b, but was changed to 14c to facilitate the splitting of segment LCLC14a.

Lower Colorado segment 15: The segment description was amended to remove Plateau Creek, including all tributaries and wetlands, from the HWY 330 bridge in Collbran to the confluence with the Colorado River except for the following creek including their wetlands and tributaries: Grove Creek, Big Creek, Cottonwood Creek, Bull Creek, Spring Creek, Coon Creek, and Mesa Creek. The Commission moved this portion of Plateau Creek to a newly created segment LCLC16 to facilitate the adoption of appropriate temperature standards.

Lower Colorado segment 16: This segment was created to encompass Plateau Creek, including all tributaries and wetlands, from the HWY 330 bridge in Collbran to the confluence with the Colorado River

except for the following creeks including their wetlands and tributaries: Grove Creek, Big Creek, Cottonwood Creek, Bull Creek, Spring Creek, Coon Creek, and Mesa Creek. The Commission moved this portion of Plateau Creek to this segment from LCLC15 to facilitate the adoption of appropriate temperature standards.

Lower Colorado segment 19: This segment description was clarified by specifically naming Highline Reservoir. Segments 9b, 13c, 20, and 21 were added to the list of segments specifically excluded from this segment.

Lower Colorado segment 20: This segment was created to encompass Rifle Gap Reservoir, Harvey Gap Reservoir, and Vega Reservoir, which are all cold water lakes larger than 100 acres in surface area. Rifle Gap and Harvey Reservoir were formerly in segment LCLC09b. Vega Reservoir was formerly in segment LCLC15.

Lower Colorado segment 21: This segment was created to encompass those cold-water lakes and reservoirs tributary to Rapid Creek, Little Dolores River from the source to the confluence with Hay Press Creek, and Roan Creek from the source to Clear Creek. The lakes and reservoirs tributary to Roan Creek were formerly in segment LCLC14a. The lakes and reservoirs tributary to Rapid Creek were formerly in segment LCLC17. The lakes and reservoirs tributary to the Little Dolores were formerly in segment LCLC18.

B. Revised Aquatic-Life Use Classifications

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

Lower Yampa/Green River 3b was changed from Warm 2 to Cold 2.
Lower Yampa/Green River 17b was changed from Cold 2 to Warm 2.
Lower Yampa/Green River 20 was changed from Warm 2 to Cold 2.
Lower Yampa/Green River 22a was changed from Warm 2 to Cold 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 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:

Lower Yampa/Green River segments: 2, 3f, 5, 8, 10, 13a-b, 15, 16, 19a, 20, and 22c.
White River segments: 1, 3, 4, 6, 7, 9c, 10a, 11, 12, 21, and 23.
Lower Colorado segments: 1-3, 4b, 7a, 9b, 10, 13b-c, 15, and 19.

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

Lower Yampa/Green River segments: 3b-c, 3e, 4, 6a, 7, 9, 12a, 17a, and 18.
White River segments: 7, 8, 10b, 14, 15, 16, 19, and 22.
Lower Colorado segments: 5, 6, 11h, 13a, 14a, 14c, 17, and 18.

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

Lower Yampa/Green River segments: 3a, 3d, 17b, 21, and 22a.
White River segments: 9a, 9c, 13a-b, 17, and 20.
Lower Colorado segments: 4a, 8, 11a-g, and 12a.

Newly created segments had the same Recreation use classification as the segment they were split from, unless there was insufficient evidence to support keeping that classification or evidence to show that the use classification was inappropriate. The following newly created segments are classified Recreation Class U with a 126/100 ml E. coli standard:

Lower Yampa/Green River segments: 23, 25, 26, 27, 30, 31, and 33.
White River segments: 26 and 27.
Lower Colorado segment: 21.

D. Addition of Water Supply Use Classification and Standards

Based on review of information regarding the location of public water supplies, Water Supply use classifications and standards were added to the following segments:

White River segment 11.
Lower Colorado segment 13a.

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, NO_3=100, was added to the following segments classified for Agriculture use:

Lower Yampa/Green River segments: 3d, 5, 7, 16, and 22a.
White River segments: 14 and 20.
Lower Colorado segments: 3, 9a, 11d, 11h, 13b, 13c, and 19.

F. Changes to Antidegradation Designation

Decoupling Cold 2 and UP: 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:

Lower Yampa/Green River segments: 3b, 13a, and 20.
White River segments: 9a, 9c, 17, and 19.
Lower Colorado segments: 6, 11b, 11c, and 11e.

Decoupling Aquatic Life Warm 2 and UP As part of the Basic Standards hearing of 2005, the Commission decided that the presence of a warm water class 2 classification would still be a presumptive basis for applying a use-protected designation; however, that presumption can be overcome if there is data showing that the water is of high quality. Therefore, the Commission reviewed all warm water class 2 segments to determine if the use protected designation is still warranted. The following segment(s) are now reviewable:

Lower Yampa/Green River segments: 3e and 13b.
White River segments: 13b, 16, and 22.
Lower Colorado segment: 13a.

G. Ambient Quality-Based Standards

There is one segment in the Basin that has 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. The Commission did not adopt any changes to the ambient quality-based standards. The following segment has an ambient based standard for total recoverable iron that was recalculated using the 50th percentile of current data:

Lower Yampa Green River segment 16: Fe(ch)=6221(Trec)

H. Aquatic Life Metals Standards

New Table Value Standards: 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 37.6(3) were modified to conform to Regulation No. 31.

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

Lower Yampa/Green River segments: 2, 4, 7, 10, 12a, 13b, 15, 17a, and 18.
White River segments: 1, 3, and 6.
Lower Colorado segments: 7a and 15.

Chromium III Standards: A review of chromium III standards showed that the 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 an Aquatic Life use classification and average hardness values less than 61 mg/l.

Lower Yampa/Green River segments: 4, 8, 10, 15, and 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	
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), agriculture	As(ac) = 340, As(ch) = 100(Trec)
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. Temporary Modifications

All temporary modifications were re-examined to determine whether to delete or 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:

White River segment: 13b.
Lower Colorado segment: 13b.

The following segments have temporary modifications for ammonia that were amended to clarify the chronic standard as 0.06, 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.

Lower Yampa/Green River segment: 2.
White River segment: 21
Lower Colorado segments: 2 and 13b.

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):

Lower Yampa/Green River segments: 4, 8, 9, 12a, 18, 21, and 22a.
White River segments: 1, 3, 4, 6, 8, 9a, 9c, 10b, 14, 17, 19, 20, and 23.
Lower Colorado segments: 5, 6, 7a, 8, 9a, 11a-g, 12a, 14a, 15, and 18.

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

Lower Yampa/Green River segments: 3b, 7, 10, 13a, 15, 17a, 19a, and 20.
White River segments: 7, 9b, 9d, and 18.
Lower Colorado segments: 1, 4a, 7b, 10, 11h, 12b, 14b, and 17.

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

Lower Yampa/Green River segments: 2 and 19b.
White River segments: 12 and 21.
Lower Colorado segments: 2, 3, and 13b.

The following segments are warm stream tier three (WS-III):

Lower Yampa/Green River segments: 3c, 3d, 3e, 3f, 5, and 13b.
Lower Colorado segments: 14c and 16.

The following segments are warm stream tier four (WS-IV):

Lower Yampa/Green River segments: 3a, 6a, 16, 17b, 22b, and 22c.
White River segments: 13a, 13b, 15, 16, and 22.
Lower Colorado segments: 4c, 4d, and 13a.

The following segments are cold lakes (CL):

Lower Yampa/Green River segments: 24, 25, 28-31, and 33.
White River segments: 10a, 24, and 26.
Lower Colorado segments: 9b and 21.

The following segments are cold lakes larger than 100 acres surface area (CLL):

White River segment 25.
Lower Colorado segment 20.

The following segments are warm lakes (WL):

Lower Yampa/Green River segments: 23, 26, 27, and 32.
White River segments: 11 and 27.
Lower Colorado segments: 13c and 19.

A temperature standard was not adopted for Lower Colorado segment 4b, which encompasses the South Canyon Hot Springs.

M. Other Site-Specific Revisions

Lower Yampa/Green River segment 3b: To reflect the change in Aquatic-Life use classification from Warm 2 to Cold 2, D.O.=5.0 mg/l was changed to D.O.=6.0 mg/l, and D.O.(sp)= 7.0 mg/l was added. Additionally, the erroneous reference to temporary modifications and associated expiration date were deleted since all temporary modifications were previously deleted from this segment.

Lower Yampa/Green River segment 3d: To reflect the Aquatic-Life Warm 2 use classification the standard for chromium III was changed from CrIII(ac)=TVS to CrIII(ac/ch)=TVS.

Lower Yampa/Green River segment 5: To reflect the Aquatic Life Warm 1 use classification, D.O.=6.0 mg/l was changed to D.O.=5.0 mg/l.

Lower Yampa/Green River segment 12a: To reflect the Agriculture use classification and absence of a Water Supply use classification, NO_3=10 was changed to NO_3=100.

Lower Yampa/Green River segment 17a: To reflect the Agriculture use classification and absence of a Water Supply use classification, NO_3=10 was changed to NO_3=100.

Lower Yampa/Green River segment 17b: To reflect the change in Aquatic Life use classification from Cold 2 to Warm 2, D.O.=6.0 mg/l was changed to D.O.=5.0 mg/l, and D.O.(sp)=7.0 mg/l was deleted.

Lower Yampa/Green River segment 20: To reflect the change in Aquatic Life use classification from Warm 2 to Cold 2, D.O.=5.0 mg/l was changed to D.O.=6.0 mg/l, and D.O.(sp)=7.0 mg/l was added.

Lower Yampa/Green River segment 22a: The reflect the changed in Aquatic Life use classification from Warm 2 to Cold 1, D.O.=5.0 mg/l was changed to D.O.=6.0 mg/l, and D.O.(sp)=7.0 mg/l was added. The Colorado Division of Wildlife provided evidence that trout were present, so trout standards were added to cadmium and silver: Cd(ac/ch)=TVS was changed to Cd(ac)=TVS(tr) and Cd(ch)=TVS, and Ag(ac/ch)=TVS was changed to Ag(ac)=TVS and Ag(ch)=TVS(tr).

Lower Yampa/Green River segment 22c: To reflect the Agriculture use classification and absence of a Water Supply use classification, NO_3=10 was changed to NO_3=100.

White River segment 11: To reflect the addition of the Water Supply use classification, NO_3=10, Cl=250, SO_4=WS, Fe(ch)=WS(dis), Mn(ch)=WS(dis) were added, and CrIII(ac/ch)=50 was changed to CrIII(ac)=50(Trec).

White River segment 13b: The boron standard was changed from B=5 to B=0.75 to reflect the Agriculture use classification.

White River segment 15: To reflect the Agriculture use classification and absence of a Water Supply use classification, NO_3=10 was changed to NO_3=100.

White River segment 16: To reflect the Agriculture use classification and absence of a Water Supply use classification, NO_3=10 was changed to NO_3=100.

White River segment 17: To reflect the Agriculture use classification and absence of a Water Supply use classification, NO_3=10 was changed to NO_3=100.

White River segment 19: To reflect the Agriculture use classification and absence of a Water Supply use classification, NO_3=10 was changed to NO_3=100.

White River segment 21: To reflect the Water Supply use classification CrIII(ac)=TVS was changed to CrIII(ac)=50(Trec).

Lower Colorado segment 3: To reflect the Aquatic Life Warm 1 use classification for this segment, D.O.=6.0 mg/l was changed to D.O.=5.0 mg/l, and D.O.(sp)= 7.0 mg/l was deleted.

Lower Colorado segment 4b: To reflect the Aquatic Life Warm 2 use classification and the absence of a Water Supply use classification, the CrIII(ac)=50(Trec) was changed the CrIII(ac/ch)=TVS.

Lower Colorado segment 9a: The Recreation use classification was changed from Recreation 2 to Recreation E. All of the streams and wetlands within Rifle Gap State Park, Rifle Falls State Park, and Rifle Creek State Wildlife Area are encompassed within this segment. Fishing, hunting, camping, and hiking are allowed, and numerous public roads and trails allow access to Rifle Creek and its tributaries.

Lower Colorado segment 11d: To reflect the Aquatic Life use classification and absence of the Water Supply use classification the chromium III standard was changed from CrIII(ac/ch)=50 to Cr(ac/ch)=TVS.

Lower Colorado segment 11e: To reflect the Water Supply use classification for this segment, NO_2(ac)=10 was changed to NO_2(ac)=1.0, NO_3(ac)=100 was changed to NO_3(ac)=10, and the following standards were added: S=0.002, Cl=250, SO_4=WS, CrIII(ac)=50(Trec), Fe(ch)=WS, and Mn(ch)=WS.

Lower Colorado segment 12a: To reflect the Agriculture use classification, and the absence of a Water Supply use classification, NO_3=10 was changed to NO_3=100, and the chloride standard Cl=250 was deleted.

Lower Colorado segment 13a: To reflect the addition of the Water Supply use classification, NO_2=10 was changed to NO_2=1.0, NO_3=100 was changed to NO_3=10, and S=0.05, Cl=250, SO_4=WS, CrIII(ac)=50(Trec), Fe(ch)=WS(dis), and Mn(ch)=WS(dis) were added.

Lower Colorado segment 14c: To reflect the Water Supply use classification, CrIII(ac)=50(Trec) was added and CrIII(ac/ch)=TVS was deleted.

Lower Colorado segment 17: To reflect the Recreation P use classification, E. coli=126/100 ml was changed to E. coli=205/100 ml. To reflect the Cold 1 use classification, D.O. = 5.0 mg/l was changed to D.O.=6.0 mg/l, and D.O.(sp)= 7.0 mg/l was added.

N. Other changes

The Commission corrected several typographical and spelling errors, and clarified segment descriptions. The abbreviation for chlorine was changed from Cl2 to Cl_2, and the (ac) and (ch) designations were removed from the inorganic standards where that designation was not appropriately applied.

The reference to “Water+Fish *Organics*” was corrected to “Water+Fish *Standards*” to incorporate the appropriate standards from both the organics table and the metal parameter table in Regulation No. 31.

EXHIBIT 13
TROUT UNLIMITED

REGION:11 BASIN: **WHITE RIVER**	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
Stream Segment Description			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
14. Mainstem of Piceance Creek from the source to ~~the Emily Oldhand diversion dam~~ upstream of the Dry Fork of Piceance Creek.		Aq Life Cold 1 Recreation 1b Agriculture	D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 F.Coli=325/100ml E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05	As(ch)=100(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS	Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
15. Mainstem of Piceance Creek from ~~the Emily Oldhand diversion dam~~ just upstream of the Dry Fork of Piceance Creek to the confluence with the White River.		Aq Life Warm 2 Recreation 1b Agriculture	D.O.= 5.0 mg/l pH = 6.5-9.0 F.Coli=325/100ml E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250	As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS	Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	

REGION:11 BASIN: **LOWER COLORADO RIVER** Stream Segment Description	Desig	Classifications	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
7. Mainstem of Mitchell, Canyon, Elk, Garfield, Divide, ~~Beaver,~~ and Cache, ~~and Battlement Creeks~~, including all tributaries, wetlands, lakes and reservoirs, from the boundary of the White River National Forest to their confluences with the Colorado River.		Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
8. Mainstem of Northwater and Trapper Creeks, including all tributaries, wetlands, lakes and reservoirs from their sources to the confluence with the East Middle Fork of Parachute Creek; mainstem of East Middle Fork of Parachute Creek, including all tributaries, from its source to the confluence with Middle Fork of Parachute Creek.	OW	Aq Life Cold 1 Recreation 2 Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl2(ch)=0.011CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250SO_4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
9c. Battlement Creek, including all tributaries, wetlands, lakes and reservoirs from headwaters downstream to the United States Bureau of Land Management boundary; and Beaver Creek, including all tributaries, wetlands, lakes and reservoirs from headwaters downstream to the White River National Forest Boundary.	OW	Aq Life Cold 1 Recreation 2 Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl2(ch)=0.011CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250SO_4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
11b. Mainstem of the West Fork of Parachute Creek from West Fork Falls to the confluence with Parachute Creek; mainstem of the Middle Fork of Parachute Creek from the north boundary line of S19, T5S, R95W to the confluence with East Middle Fork of Parachute Creek.	~~UP~~	Aq Life Cold 2 Recreation 2 Agriculture	D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml	CN(ac)=0.2 NO_2(ac)=10 NO_3(ac)=100	B(ch)=0.75	As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec)	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mn(ch)=200(Trec)	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	
11d. ~~Mainstem of East Middle Fork of Parachute Creek, including all tributaries, from its source to the confluence with Middle Fork of Parachute Creek; m~~ainstem of Middle Fork of Parachute Creek from the confluence with East Middle Fork to a point immediately above the confluence with the West Fork of Parachute Creek.		Aq Life Cold 1 Recreation 2 Agriculture	D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05	As(ac/ch)=50 Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=50 CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS	Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
11g. All tributaries to East Fork Parachute Creek on the south side of the East Fork Parachute Creek from a point immediately below ~~First~~ Second Anvil Creek to the confluence with Parachute Creek; all tributaries to Parachute Creek on the east side of Parachute Creek from a point immediately below the East Fork of Parachute Creek to the confluence with the Colorado River; and all tributaries to the Colorado River on the north side of the Colorado River from a point immediately below Cottonwood Creek to the confluence with Parachute Creek.		Aq Life Cold 2 Recreation 2 Agriculture	D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml	CN(ac)=0.2 NO_2(ac)=10 NO_3(ac)=100	B(ch)=0.75	As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec)	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mn(ch)=200(Trec)	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	
12. All tributaries to East Fork Parachute Creek from its source to a point immediately below the mouth of ~~First~~ Second Anvil Creek.		Aq Life Cold 1 Recreation 2 Agriculture	D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250	As(ac/ch)=TVS Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS	Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

TROUT UNLIMITED PROPOSED

37.25 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; 2008 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 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

The following creation of one new segment and modifications of five other segments in the basin were made due to new water quality data and new fisheries data that showed that streams should be resegmented based on existing water quality levels and existing trout populations. The following changes were made:

Lower Colorado River Basin segment 9c was created for Battlement Creek and Beaver Creek. The Battlement Creek portion of the segment would include all tributaries, wetlands, lakes and reservoirs from headwaters downstream to the United State Bureau of Land Management boundary. The Beaver Creek segment would include all tributaries, wetlands, lakes and reservoirs from headwaters downstream to the White River National Forest boundary. Battlement Creek and Beaver Creek were removed from Lower Colorado River segment 7.

Lower Colorado River segments 8 and 11d were resegmented by changes to existing definitions. Lower Colorado River segment 8 was modified to include the East Middle Fork of Parachute Creek. The following was added to the definition of Lower Colorado River segment 8, "Mainstem of East Middle Fork of Parachute Creek from its source to the confluence with Middle Fork of Parachute Creek." The same sentence was deleted from the definition of Lower Colorado River segment 11d.

The segment boundaries for Lower Colorado River segments 11g and 12 were changed. The definition of Lower Colorado segment 11g was changed from "All tributaries to the East Fork Parachute Creek on the south side of the East Fork of Parachute Creek from a point immediately below First Anvil Creek to…." to "All tributaries to the East Fork Parachute Creek on the south side of the East Fork of Parachute Creek from a point immediately below Second Anvil Creek to….." The definition of Lower Colorado segment 12 was changed from "All tributaries to the East Fork Parachute Creek from its source to a point immediately below the mouth of First Anvil Creek" to "All tributaries to the East Fork Parachute Creek from its source to a point immediately below the mouth of Second Anvil Creek." The only changes in the definition of LC segments 11g and 12 were the removal of the word "First" and substitution of the Word "Second."

The Segment boundary for White River segments14 and 15 were changed. The definition of White River segment 14 was changed from "the mainstem of Piceance Creek from source to Emily Oldhand Diversion" to "the mainstem of Piceance Creek from source to upstream of the Dry Fork of Piceance Creek." The definition of White River segment 15 was changed from "the mainstem of Piceance Creek from the Emily Oldhand diversion to…" to "the mainstem of Piceance Creek from just upstream of the Dry Fork of Piceance Creek to.."

B. Changes to Outstanding Water Designation and Aquatic Life Designation

Outstanding Waters Designation: Based on evidence that shows that water quality meets the requirements of 31.8(2)a, the Outstanding Water (OW) designation was added to the Lower Colorado River segment LC9c, Battlement Creek and Beaver Creek and the existing Lower Colorado River segment 8 (Trapper Creek, Northwater Creek and as modified the East Middle Fork of Parachute Creek). A new segment LC9c was created for portions of Battlement Creek and Beaver Creek. The Battlement

Creek portion of the segment would include all tributaries, wetlands, lakes and reservoirs from headwaters downstream to the United State Bureau of Land Management boundary. The Beaver Creek segment would include all tributaries, wetlands, lakes and reservoirs from headwaters downstream to the White River National Forest boundary. Existing segment, Lower Colorado River segment 8 was also designated as OW. 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. The US Bureau of Land Management has identified these stream segments as "Areas of Critical Environmental Concern."

C. Change in "Use Protected" designation.

The use protection designation for Lower Colorado River segment 11b was removed. Segment 11b is now designated as reviewable.

EXHIBIT 14
SHELL FRONTIER OIL & GAS, INC.

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION: 11 BASIN: WHITE RIVER Stream Segment Description		Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
					INORGANIC mg/l		METALS ug/l			
13b.	Mainstem of Yellow Creek, ~~including all tributaries,~~ from ~~the source~~ immediately below Barcus Creek to the confluence with the White River.	UP	Aq Life Warm 2 Recreation ~~2~~ N Agriculture	D.O. = 5.0 mg/l pH = 6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml	NH3(ac/ch)=TVS ~~NH3(ch)=0.06~~ Cl2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=5 NO2=10 NO3=100	As(ac/ch)=TVS Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	~~Fe(ch)=1000(Trec)~~ Fe(ch)=1255(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	~~Temporary modifications for all numeric standards = current conditions. Expiration date of 2/28/09.~~
13c.	Mainstem of Yellow Creek from the source to the confluence with Barcus Creek and all tributaries to Yellow Creek	UP	Aq Life Warm 2 Recreation N Agriculture	D.O. = 5.0 mg/l pH = 6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml	NH3(ac/ch)=TVS Cl2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=5 NO2=10 NO3=100	As(ac/ch)=TVS Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.77(tot)	Ni(ac/ch)=TVS Se(ac)=TVS Se(ch)=6.0 Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
13d.	Violett Springs Pond No. 1 and Pond No. 2	UP	Aq Life Cold 2 Recreation N Agriculture	D.O. = 6.0 mg/l pH = 6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml	NH3(ac/ch)=TVS Cl2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=5 NO2=10 NO3=100	As(ac/ch)=TVS Cd(ac) = TVS(tr) Cd (ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac) = TVS Ag (ch)=TVS(tr) Zn(ac/ch)=TVS	

PROPOSED

37.25 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; June 2008 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

White River, Segment 13b - Yellow Creek: Resegmentation

The Commission determined that the physical conditions in the Yellow Creek basin warranted resegmentation based on the presence or absence of perennial flow and the ability to support fish populations. Based on a UAA conducted for Shell Frontier Oil & Gas, Inc. by GEI Consultants Inc./Chadwick Ecological Division, only that portion of Yellow Creek downstream of Barcus Creek maintains perennial flow and a reproducing fish population. Fish are precluded from the rest of Yellow Creek, including its tributaries, by either ephemeral or intermittent flows, as well as a physical barrier (waterfall) just downstream of Barcus Creek.

The Commission also noted that a hydrologically disconnected waterbody, Violett Springs Pond No. 1 (Upper Pond – NE¼, Section 2, T1S, R98W) and Pond No. 2 (Lower Pond – NE¼, Section 2, T1S, R98W and NW¼, Section 1, T1S, R98W) (decreed for the Colorado Division of Wildlife in Case No. 99CW318, Water Division No. 5), has characteristics unlike the rest of the system. These Violett Springs Ponds, which are managed by the Colorado Division of Wildlife, differ from the rest of Yellow Creek and its tributaries through the presence of standing water and colder temperatures. However, natural fluctuations in water level in these ponds preclude long-term survival of fish. As a result, the Commission determined this segment met the definitions of Class 2 aquatic life use.

Based on these findings, the Commission determined that Segment 13b should be split into three distinct segments, with use classifications as described below:

Segment 13b: **Mainstem of Yellow Creek, from immediately below Barcus Creek to the confluence with the White River** – Aquatic Life Warm 2, Recreation N, Agriculture (Livestock watering).

Segment 13c: **Mainstem of Yellow Creek, from the source to the confluence with Barcus Creek, and all tributaries to Yellow Creek** – Aquatic Life Warm 2, Recreation N, Agriculture (Livestock watering).

Segment 13d: **Violett Springs Pond Nos. 1 and 2** – Aquatic Life Cold 2, Recreation N, Agriculture (Livestock watering).

Water Quality Standards Issues

Continued application of the existing agricultural standards for livestock watering adopted for the Yellow Creek basin by the Commission in 2003 was supported by a UAA conducted by Shell. These standards were retained for all three segments.

Based on Regulation 31.16, Table III, Footnote 6 and evidence presented by Shell that Segment 13c cannot support fish, the Commission adopted an aquatic life mercury standard of 0.77 µg/L for that segment.

The Commission determined that elevated concentrations of iron in Segment 13b and selenium in Segment 13c reflect background geologic conditions and naturally occurring water quality. Site-specific chronic aquatic life standards based on ambient conditions were adopted for iron for Segment 13b [Fe(ch), 50th percentile = 1255 µg/L] and selenium [Se(ch), 85th percentile = 6 µg/L] for Segment 13c. The Commission determined that these reflected natural conditions for these segments and would be protective of the attainable aquatic life use.

EXHIBIT 15
TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION

STREAM CLASSIFICATIONS AND WATER QUALITY STANDARDS

REGION:11 BASIN: **Lower Colorado River**	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
Stream Segment Description			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
4.a. All tributaries, including wetlands, to the Colorado River from the confluence with the Roaring Fork River to a point immediately below the confluence with Parachute Creek except for the specific listings in Segments 4b, 4c, 5, 6, 7, 8, 9, 10, 11a - h, and 12.		Aq Life Cold 2 Recreation 2 Water Supply Agriculture	D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=2000/100 ml E.Coli=630/100 ml.	NH_3(ac)=TVS Nh_3(ch)=0.02 Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 No_2=0.05 No_3=10 Cl=250 SO_4=WS	As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ach/ch)=TVS	Temporary modification: Se=existing ambient quality Expiration date of 2/28/09
4.c. Mainstem of Dry Creek including all tributaries and wetlands from the source to the confluence with the Colorado River.	UP	Aq Life Cold 2 Recreation N Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml	CN(ac)=0.2	S=0.002 B=5 NO_2=10 NO_3=100	As(ac)=200 Cd(ch)=50 CrIII(ch)=1000 CrVI(ch)=1000 Cu(ac)=500	Pb(ch)=100	Se(ch)=50 Zn(ch)=25000	All metals are Trec unless otherwise noted.

PROPOSED

37.25 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; 2008 RULEMAKING

Based on a Use Attainability Analysis presented by Tri-State Generation and Transmission Association, the Commission determined that Dry Creek does not contain fish and is ephemeral and effluent dependent. Therefore, the Commission removed this stream from Segment 4a and included it in a new Segment 4c with a classification of Aquatic Life Cold 2, Recreation N, and Agriculture, with water quality standards based on protection of the agriculture use. (Livestock watering standards based on EPA Water Quality Criteria 1972.)

EXHIBIT 16
TOWN OF PALISADE

REGION:11 BASIN: **LOWER COLORADO RIVER**	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
Stream Segment Description			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
14a. Mainstem of Roan Creek including all wetlands, tributaries, lakes, and reservoirs, from its source to a point immediately above the confluence with Clear Creek.		Aq Life Cold 1 Recreation 1b Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)= 7.0 mg/l pH=6.5-9.0 F.Coli=325/100ml E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
14b. Mainstem of Roan Creek including all tributaries, wetlands, lakes and reservoirs, from a point immediately below the confluence with Clear Creek to the confluence with the Colorado River.		Aq Life Warm 1 Recreation 1b Water Supply Agriculture	D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=325/100ml E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
15. Mainstem of Plateau Creek including all tributaries, wetlands, lakes, and reservoirs, from its source to the confluence with the Colorado River.		Aq Life Cold 1 Recreation 1a Water Supply Agriculture	D.O.=6.0 mg/l D.O.(sp)= 7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
16. Deleted.									
17a. Mainstem of Rapid Creek, including all tributaries, wetlands, lakes and reservoirs, from its source to the confluence with the Colorado River, except for specific listings in segment 17b.		Aq Life Cold 1 Recreation 1b Water Supply Agriculture	D.O. = 5.0 mg/l pH = 6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS Fe(ch)=WS(dis)	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS	Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
17b. Rapid Creek, including all tributaries, wetlands, lakes and reservoirs, from its source to a point immediately below the confluence with Cottonwood Creek, (including flow from Kruzen Springs located at approximate coordinates latitude 39.05441N latitude, 108.26180W longitude, and elevation 8,950 feet above mean sea level).	OW	Aq Life Cold 1 Recreation 1b Water Supply Agriculture	D.O. = 5.0 mg/l pH = 6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS Fe(ch)=WS(dis)	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS	Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
18. Mainstem of Little Dolores River, including all tributaries, wetlands, lakes and reservoirs, from its source to immediately below the confluence with Hay Press Creek.		Aq Life Cold 1 Recreation 1b Water Supply Agriculture	D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 F.Coli=325/100ml E.Coli=205/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
19. All lakes and reservoirs tributary to the Colorado River from a point immediately below the confluence of the Colorado River and Parachute Creek to the Colorado-Utah border.		Aq Life Warm 1 Recreation 1a Agriculture	D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05	As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS	Ag(ac/ch)=TVS Zn(ac/ch)=TVS	

TOWN OF PALISADE PROPOSED

37.25 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; 2008 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 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

The creation of one new segment in the basin was made on the basis of water quality information that indicates that stream re-segmentation is applicable based on existing water quality conditions. The following change was made:

Lower Colorado River Basin Rapid Creek segment 17b was created for Rapid Creek, including all tributaries, wetlands, lakes and reservoirs, from its source to a point immediately below the confluence with Cottonwood Creek, including flow from Kruzen Springs located at approximate coordinates latitude 39.05441N latitude, 108.26180W longitude, and elevation 8,950 feet above mean sea level.

B. Changes to Outstanding Water Designation

Outstanding Waters Designation: Based on evidence that shows that water quality meets the requirements of 31.8(2)a, the Outstanding Water (OW) designation was added to the Lower Colorado River Basin new segment 17b (Rapid Creek, including all tributaries, wetlands, lakes and reservoirs, from its source to a point immediately below the confluence with Cottonwood Creek, [including flow from Kruzen Springs located at approximate coordinates latitude 39.05441N latitude, 108.26180W longitude, and elevation 8,950 feet above mean sea level]). 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.

EXHIBIT 17
CAM-Colorado LLC and CAM Mining LLC

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION: 11 BASIN: LOWER COLORADO RIVER Stream Segment Description	Desig	Classifications	Numeric Standards						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL AND BIOLOGICAL	INORGANIC mg/L		Metals ug/L			
13d. All tributaries to the Colorado River, including wetlands, from the Government Highline Canal Diversion to Salt Creek, upgradient from the Government Highline Canal, excluding the main stems of East Salt Creek and West Salt Creek.	UP (Ephemeral)	Aq Life Warm 2 Recreation N Agriculture	D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml	CN(ac)=0.2	S=0.002 B=5 NO2=10 NO3=100	As(ac)=160 Cd(ch)=10 CrIII(ch)=100 CrVI(ch)=100 Cu(ac)=200	Pb(ch)=100 Mn(ac)=500 Ni(ch)=200	Se(ac)=720 Zn(ch)=2000	All metals are Trec unless otherwise noted.

PROPOSED

37.25 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; JUNE 2008 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 determined that a new segment was warranted to separate ephemeral reaches of streams in the Grand Valley and Bookcliffs from other tributaries into a new segment, designated as 13d. As stated within Regulation 37.10(V)(7) "*Some segments* [in the lower Colorado Basin] *encompass great distances and include a large number of tributaries. Some tributaries are perennial streams which legitimately are aquatic uses. However, within the segment are dry gulches which would not be classified as aquatic life. Subsequent reviews should seek to separate the aquatic classified streams from the non-aquatic dry gulches.*"

Lower Colorado River Basin Resegmentation 13d

A review of the streams and drainages was conducted and based on supporting documentation submitted by CAM-Colorado LLC and CAM Mining LLC, the Commission has resegmented a portion of the Lower Colorado River Basin currently contained within Segment 13a to separate the aquatic life classified streams from the non-aquatic dry gulches. The non-aquatic dry gulches are in the new segment described as follows:

Segment 13d: All tributaries to the Colorado River, including wetlands, from the Government Highline Canal Diversion to Salt Creek, upgradient from the Government Highline Canal, excluding the main stems of East Salt Creek and West Salt Creek.

This new segment is use protected because the gulches are dry or ephemeral. Aquatic Life Warm 2, Recreation N, and Agriculture use classifications have been assigned. Because the ephemeral water bodies within this segment do not support aquatic life, acute water quality standards were based on (i) protection of the agriculture use (livestock watering) or (ii) available existing water quality from samples collected during periods of flow (i.e., storm event sampling) which were used to calculate the ambient water quality (95th percentile) for arsenic, manganese, and selenium. The Commission noted that a site-specific acute selenium standard based on toxicity data was higher than the 95th percentile and adopted the ambient value to provide a conservative estimate of protection.

EXHIBIT 18
Public Service Company of Colorado, a Colorado corporation

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION: 11 BASIN: LOWER COLORADO RIVER Stream Segment Description	Desig	Classifications	Numeric Standards						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL AND BIOLOGICAL	INORGANIC mg/L		Metals ug/L			
13b. All tributaries to the Colorado River, including wetlands, from the Government Highline Canal Diversion to a point immediately below Salt Creek, downgradient from the Government Highline Canal, the Orchard Mesa Canal No. 2, Orchard Mesa Drain, Stub Ditch and the northeast Colorado National Monument boundary, except for specific listings in Segment 13c and 13e.	UP	Aq Life Warm 2 Recreation 1a Agriculture	D.O.= 5.0 mg/l pH = 6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH3(ac)=TVS NH3(ch)=0.06 Cl2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO2=0.05	As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS	Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modifications: Se(ch)=existing ambient quality based on uncertainty. Persigo Wash from Grand Junction discharge to confluence with the Colorado River; and Little Salt Wash from Fruita discharge to confluence with the Colorado River for D.O., F. Coli., NH3, Cd, Cu, Ag, Ni, B, Hg, NO2 = existing quality. Expiration date of 2/28/09.
13e. Coal Canyon Creek downgradient of the Government Highline Canal.	UP	Aq Life Warm 2 Recreation N Agriculture	D.O.= 5.0 mg/l pH = 6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml	NH3(ac)=TVS NH3(ch)=0.06 Cl2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO2=0.05	As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS $Cu(ac)=0.96e^{0.9801[(lnhardness)-1.6561]}$ $Cu(ch)=0.96e^{0.5897[(lnhardness)-0.5007]}$	Fe(ch)=1000(Trec) Pb(ac/ch)= TVS Mn(ac/ch)=TVS Hg(ch)=0.77(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS	Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modifications: Se(ch)=existing ambient quality. Expiration date of 12/31/2013.

PROPOSED

37.25 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; JUNE 2008 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 determined that a new segment was warranted to separate lower Coal Canyon Creek, downgradient from the Government Highline Canal, from the rest of the stream reaches in Segment 13b. This new segment was designated 13e. The Commission noted that the ephemeral portion of Coal Canyon Creek upgradient from the Government Highline Canal belonged to a new Segment 13d.

This new segment 13e is use protected because of its effluent-dependent nature, with perennial flows comprised solely of discharge from the Public Service Company of Colorado Cameo plant. Aquatic Life Warm 2, Recreation N, and Agriculture use classifications were assigned. Evidence submitted at the hearing showed this small stream supports a limited aquatic community, reflecting the low base flows and lack of significant habitat. This limited community is comprised of multiple species of juvenile fish and benthic invertebrates. Given the effluent dependent nature and attainable aquatic community, the Commission determined that site-specific standards for copper were appropriate, based on Regulation 31.7(1)(b)(iii). Based on Regulation 31.16, Table III, Footnote 6 and evidence presented by Public Service Company of Colorado that there are no fish of catchable size and that any fish in Segment 13e are not consumed by humans, the Commission also adopted a mercury standard of 0.77 µg/L. In addition, a temporary modification of existing quality was adopted for selenium, based on the current effluent quality (Type i), as well as uncertainty of what the appropriate selenium standard would be for the protection of the aquatic life attainable in this effluent-dependent stream (Type iii).