



COLORADO

Water Quality
Control Commission

Department of Public Health & Environment

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

SUBJECT:

For consideration of the adoption of new temporary modifications and revisions to current temporary modifications of water quality standards expiring on or before December 31, 2016, and new site specific standards that allow for the deletion of current temporary modifications expiring on or before December 31, 2016, for multiple segments in the:

- Classifications and Numeric Standards for Arkansas River Basin, Regulation #32 (5 CCR 1002-32);
- Classifications and Numeric Standards for Upper Colorado River Basin and North Platte River (Planning Region 12), Regulation #33 (5 CCR 1002-33);
- Classifications and Numeric Standards for San Juan River and Dolores River Basins, Regulation #34 (5 CCR 1002-34);
- Classifications and Numeric Standards for Gunnison and Lower Dolores River Basins, Regulation #35 (5 CCR 1002-35);
- Classifications and Numeric Standards for Rio Grande Basin, Regulation #36 (5 CCR 1002-36);
- Classifications and Numeric Standards for Lower Colorado River Basin, Regulation #37 (5 CCR 1002-37);
- Classifications and Numeric Standards for South Platte River Basin, Laramie River Basin, Republican River Basin, Smoky Hill River Basin, Regulation #38 (5 CCR 1002-38).

Proposed revisions and proposed Statements of Basis, Specific Statutory Authority and Purpose have been submitted by the following:

- Exhibit 1 - Regulation #32, the Water Quality Control Division (Division);
- Exhibit 2 - Regulation #33, the Water Quality Control Division (Division);
- Exhibit 3 - Regulation #34, the Water Quality Control Division (Division);
- Exhibit 4 - Regulation #35, the Water Quality Control Division (Division);
- Exhibit 5 - Regulation #36, the Water Quality Control Division (Division);
- Exhibit 6 - Regulation #37, the Water Quality Control Division (Division);
- Exhibit 7 - Regulation #38, the Water Quality Control Division (Division);
- Exhibit 8 - Regulation #32, Pioneer Natural Resources USA, Inc. and XTO Energy, Inc. (Pioneer & XTO);
- Exhibit 9 - Regulation #35, U.S. Energy Corp (US Energy);
- Exhibit 10 - Regulation #38, Plum Creek Water Reclamation Authority (Plum Creek);
- Exhibit 11 - Regulation #38, Upper Clear Creek Watershed Association (UCCWA);
- Exhibit 12 - Regulation #38, Upper Thompson Sanitation District (UTSD).

In these attachments, proposed new language is shown with double-underlining and proposed deletions are shown with ~~strikeouts~~. Any alternative proposals related to current temporary modifications identified in Exhibits 1 through 12, with expiration dates on or before December 31, 2016, will also be considered.

HEARING SCHEDULE:

DATE: Monday, December 8, 2014
TIME: 10:00 a.m.
PLACE: Florence Sabin Conference Room
Department of Public Health and Environment
4300 Cherry Creek Drive South
Denver, CO 80246

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. The Commission requests that all interested persons submit to the Commission any available information that may be relevant in considering the noticed proposals.

Written submissions prior to the hearing by interested members of the public that do not have party status are encouraged. In order to be distributed to the Commission for review prior to the hearing, such submissions need to be received in the Commission Office or the Colorado Department of Public Health and Environment's (Department's) mail room by November 24, 2014. Written submissions received after this date will be distributed to Commissioners at the hearing. However, for logistical reasons, the Commission office cannot guarantee that electronic submissions received after 1:00 p.m. Friday, December 5, 2014 will be provided to Commissioners. Interested persons wishing to submit comments or other documents after that date and time should bring paper copies to the hearing and provide PDF versions to the Commission office as soon as possible after 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 generally will not be permitted.

PARTY STATUS:

Participation as a "party" to this hearing will require compliance with section 21.3(D) of the Procedural Rules, Regulation #21 (5 CCR 1002-21). It is not necessary to acquire party status in order to testify or comment. **For each request for party status, please provide the organization's name, a contact person, mailing address, phone number, and email address.** Written party status requests are due in the Commission Office on or before:

DATE: Tuesday, September 23, 2014
TIME: 5:00 p.m.

A single copy of the party status request may be transmitted as an email attachment to cdphe.wgcc@state.co.us, submitted by fax to 303-691-7702, mailed or otherwise conveyed so as to be received in the Department's mail room no later than this deadline.

PREHEARING STATEMENTS:

PLEASE NOTE that for this hearing two separate deadlines for prehearing statements are established:

- (1) A PDF version of a **Proponent's Prehearing Statement** from:
 - o the Division,
 - o Pioneer & XTO,

- o US Energy,
- o Plum Creek,
- o UCCWA, and
- o UTSD

as the proponents of revisions proposed in Exhibit 1 through 12 attached to this notice, including written testimony and exhibits providing the basis for the proposals, must be submitted to the Commission office no later than **October 2, 2014**. In addition, one complete paper copy, including written testimony and exhibits providing the basis for the proposals, AND 13 paper copies of the Proponent's Prehearing Statements, **without** written testimony and exhibits, must be received in the Department's mail room no later than **October 2, 2014**; and

- (2) A PDF version of a **Responsive Prehearing Statement**, including any exhibits, written testimony, and alternative proposals of **anyone seeking party status and intending to respond to the proponent's proposal** must be submitted to the Commission office no later than **October 23, 2014**. In addition, one complete paper copy, including written testimony and exhibits providing the basis for the proposals, AND 13 paper copies, **without** written testimony and exhibits, must be received in the Department's mail room no later than **October 23, 2014**.

The PDF versions of all prehearing statements may be emailed to cdphe.wqcc@state.co.us, provided via an FTP site or submitted on a CD so as to be received no later than the specified due date.

As soon as prehearing statements are posted on the Commission's web site, the Commission office will email a link to the page containing the prehearing statements to proponents, parties and the Attorney General's Office representatives for the Commission and the Division.

Please **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 emailed to all persons requesting party status. It is also posted on the Commission's web site as Appendix C to the [Public Participation Handbook](#). 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 two-sided copies of all hearing documents on three-hole punch paper.**

REBUTTAL STATEMENTS:

Written rebuttal statements responding to the prehearing statements due on **October 23, 2014** may be submitted by the Division or anyone seeking party status. Any such rebuttal statements must be received in the Commission Office by **November 24, 2014**. A PDF version (emailed to cdphe.wqcc@state.co.us, provided via an FTP site or submitted on a CD) must be submitted to the Commission office by this deadline. In addition, one complete paper copy of written rebuttal statements, including any exhibits, AND 14 paper copies **without** exhibits must be received in the Department's mail room by this deadline. No other written materials will be accepted following this deadline except for good cause shown.

PREHEARING CONFERENCE:

DATE: Wednesday, November 12, 2014
 TIME: 1:00 p.m.
 PLACE: Sabin Conference Room
 Department of Public Health and Environment
 4300 Cherry Creek Drive South
 Denver, Colorado 80246

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.

Any motions regarding the conduct of this rulemaking shall be submitted by Thursday, November 6, 2014, so that they can be considered at the prehearing conference. No motions will be accepted after November 6, 2014, except for good cause shown.

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 12th day of August, 2014 at Denver, Colorado.

WATER QUALITY CONTROL COMMISSION

Trisha Oeth, Administrator

EXHIBIT 1

WATER QUALITY CONTROL DIVISION - 32

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION: 7 BASIN: LOWER ARKANSAS RIVER	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
Stream Segment Description			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
1a. Mainstem of the Arkansas River from a point immediately above the confluence with Fountain Creek to immediately above the Colorado Canal headgate near Avondale.	UP	Aq Life Warm 2 Recreation E Water Supply Agriculture	Jan-Feb T _{DM} =TVS(WS-II) °C T _{MWAT} =TVS(WS-II) °C Mar-Nov T _{DM} =TVS(WS-II) °C T _{MWAT} =TVS(WS-II) °C Dec T _{DM} =21.5 °C T _{MWAT} =20.7 °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 =0.5 NO ₃ =10 Cl=250 SO ₄ =329	As(ac)=340 As(ch)=0.02-10(Trec) ^ Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=2800 (Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac)= 19.1 Se(ch)=14.1 Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modifications: type (i) Se(ac/ch) = existing quality; SO ₄ = existing quality. Expiration date of 6/30/2016.
1b. Mainstem of the Arkansas River from the Colorado Canal headgate to the inlet to John Martin Reservoir.	UP	Aq Life Warm 2 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 =0.5 NO ₃ =10 Cl=250 SO ₄ =902	As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)= 1950(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis)	Hg(ch)=0.01(tot) Mo(ch)=160(Trec) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modification Type B: Se(ch)="current conditions" Expiration date of 6/30/2016. Temporary modification: As(ch)=hybrid Expiration date of 12/31/21. Water + Fish Standards Apply.
3a. Mainstem of the Apishapa River, including all tributaries and wetlands, from the source to I-25, except for specific listings in Middle Arkansas segment 1 and Lower Arkansas segments 3b and 3c.		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 Chla=150 mg/m ²	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 P=110 ug/l (tot)	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) Mo(ch)=160(Trec) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21. Temporary modification Type B: Temperature="current conditions" Expiration date of 6/30/2016.
3b. Mainstem of West Torino Canyon Creek, North Fork, Middle Fork and mainstem of Trujillo Creek, Mitotes Canyon Creek, Luis Canyon Creek, Wheeler Canyon Creek, Mauricio Canyon Creek, Daisy Canyon Creek, Adobe Canyon Creek, Gonzales Canyon Creek, Frio Canyon Creek, Borrego Canyon Creek, Munoz Canyon Creek, William Canyon Creek and Castro Canyon Creek, including all tributaries, from their sources to their confluences with the Apishapa River, except for the specific listings in Middle Arkansas segment 1.	UP	Aq Life Warm 2 Recreation N Water Supply Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E.Coli=630/100ml	NH ₃ (ch)=0.5 CN=0.2 S=0.05	B=0.75 NO ₂ (ac)=1.0 NO ₃ (ac)=10 Cl=250 SO ₄ =WS P=170 ug/l (tot)	As(ac)=340 As(ch)=0.02-10(Trec) ^ Cd(ac)=5.0(Trec) CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac)=50(Trec) Cu(ac)=200(Trec)	Fe(ch)=WS(dis) Pb(ac)=50(Trec) Mn(ch)=WS(dis)	Hg(ac)=2.0(Trec) Mo(ch)=160(Trec) Ni(ch)=100(Trec) Se(ch)=20(Trec) Ag(ac)=100(Trec) Zn(ch)=2000(Trec)	Temporary modification Type B: Temperature="current conditions" Expiration date of 6/30/2016.

REGION: 7 BASIN: LOWER ARKANSAS RIVER	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
Stream Segment Description									
4b. Mainstem of Lorencito Canyon, from the source to the confluence with the Purgatoire River.	UP	Aq Life Warm 2 Recreation E Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml Chla=150 mg/m ²	NH ₃ (ac/ch)=TVS CL ₂ (ac)=0.019 CL ₂ (ch)=0.011	CN=0.005 S=0.002 B=4.0 NO ₂ =0.5 NO ₃ =100 P=170 ug/l (tot)	As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrIII(ch)=100(Trec) 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) Mo(ch)=160(Trec) Ni(ac/ch)=TVS	Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modification Type B: Temperature= "current conditions" Expiration date of 6/30/2016.
5b. Mainstem of the North Fork of the Purgatoire River, including all tributaries and wetlands, from a point immediately below the confluence with Guajatyah Creek to the confluence with the Purgatoire River. Mainstem of the Middle Fork of the Purgatoire River from the Bar Ni Ranch Road at Stonewall Gap to the confluence with the North Fork of the Purgatoire River. Mainstem of the South Fork of the Purgatoire River from Terco to the confluence with the Purgatoire River. Mainstem of the Purgatoire River to Trinidad Lake. Mainstem of Long Canyon Creek from the source to Trinidad Reservoir.		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 Chla=150 mg/m ² C	NH ₃ (ac/ch)=TVS CL ₂ (ac)=0.019 CL ₂ (ch)=0.011 CN=0.005 S=0.002	B=4.0 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS P=110 ug/l (tot) C	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) Mo(ch)=160(Trec) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21. Temporary modification Type B: Temperature= "current conditions" Expiration date of 6/30/2016.
5c. Purgatoire mainstem from Trinidad Lake outlet works to I-25. Mainstem of Raton Creek from the source to the confluence of Purgatoire 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 Chla=150 mg/m ² C	NH ₃ (ac/ch)=TVS CL ₂ (ac)=0.019 CL ₂ (ch)=0.011 CN=0.005 S=0.002	B=2.0 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS P=110 ug/l (tot) C	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) Mo(ch)=160(Trec) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21. Temporary modification Type B: Temperature= "current conditions" Expiration date of 6/30/2016.
6a. All tributaries to the Purgatoire River, including all wetlands, from the source to Interstate 25, except for specific listings in segments 4b, 5a, 5b, 5c and 6b.	UP	Aq Life Cold 2 Recreation 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 E.Coli=126/100ml Chla=150 mg/m ² C	CN=0.2 NO ₂ =10 NO ₃ =100	B=4.0 P=110 ug/l (tot) C	As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec) CrIII(ac/ch)=TVS	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mo(ch)=160(Trec)	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	Temporary modification Type B: Temperature= "current conditions" Expiration date of 6/30/2016.
6b. Wet Canyon and all tributaries, including wetlands, from the source to the confluence with the Purgatoire River.	UP	Aq Life Cold 2 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 Chla=150 mg/m ²	CN=0.2 NO ₂ =1.0 NO ₃ =10 S=0.05	B=2.0 Cl=250 SO ₄ =WS P=110 ug/l (tot)	As(ch)=0.02-10(Trec) A Be(ch)=4.0(Trec) Cd(ac)=5.0(Trec) CrIII(ac)=50(Trec) CrIII(ch)=TVS	CrVI(ac)=50(Trec) CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Fe(ch)=WS(dis) Pb(ac)=50(Trec) Pb(ch)=100(Trec) Mn(ch)=WS(dis)	Hg(ac)=2.0(tot) Mo(ch)=160(Trec) Ni(ch)=100(Trec) Se(ch)=20(Trec) Ag(ac)=100(Trec) Zn(ch)=2000(Trec)	Temporary modification Type B: Temperature= "current conditions" Expiration date of 6/30/2016.
15. All lakes and reservoirs tributary to the mainstem of the North Fork of the Purgatoire River from the source to a point immediately below the confluence with Guajatyah Creek. All lakes and reservoirs tributary to the Middle Fork of the Purgatoire River from the source to the USGS gage at Stonewall mainstem of the South Fork of the Purgatoire River, from the source to Terco. Monument Lake, North Lake, Trinidad Lake, Long Canyon Reservoir and Lake Dorothy.		Aq Life Cold 1 Recreation E Water Supply Agriculture DUWS*	T=TVS(CL) °C Trinidad Reservoir 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 Chla=8 ug/l B	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 P=25 ug/l (tot) B	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) Mo(ch)=160(Trec) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	*DUWS Applies only to Monument Lake and North Lake Temporary modification Type B: Temperature= "current conditions" Expiration date of 6/30/2016.
16. All lakes and reservoirs tributary to the Purgatoire River from the source to I-25, except for the specific listings in segment 15 and 17.	UP	Aq Life Cold 2 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 Chla=8 ug/l B	CN=0.2 NO ₂ =10 NO ₃ =100	B=0.75 P=25 ug/l (tot) B	As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec) CrIII(ac/ch)=TVS	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mo(ch)=160(Trec)	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	Temporary modification Type B: Temperature= "current conditions" Expiration date of 6/30/2016.

REGION: 7 BASIN: LOWER ARKANSAS RIVER	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
Stream Segment Description									
17. All lakes and reservoirs tributary to Wet Canyon, from the source to the confluence with the Purgatoire River.	UP	Aq Life Cold 2 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 Chla=8 ug/l ^B	CN=0.2 NO ₂ =0.05 NO ₃ =10 S=0.05	B=0.75 Cl=250 SO ₄ =WS P=25 ug/l (tot) ^B	As(ch)=0.02-10(Trec) ^A Be(ch)=4.0(Trec) Cd(ac)=5.0(Trec) CrIII(ac)=50(Trec) CrIII(ch)=TVS	CrVI(ac)=50(Trec) CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Fe(ch)=WS(dis) Pb(ac)=50(Trec) Pb(ch)=100(Trec) Mn(ch)=WS(dis)	Hg(ac)=2.0(tot) Mo(ch)=160(Trec) Ni(ch)=100(Trec) Se(ch)=20(Trec) Ag(ac)=100(Trec) Zn(ch)=2000(Trec)	Temporary modification Type B: Temperature= "current conditions" Expiration date of 6/30/2016.

WATER QUALITY CONTROL DIVISION - 32
Proposed

32.54 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 8, 2014 RULEMAKING; FINAL ACTION JANUARY 12, 2015; EFFECTIVE DATE JUNE 30, 2015

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

BASIS AND PURPOSE

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the Commission reviewed the status of temporary modifications scheduled to expire before December 31, 2016, to determine whether the temporary modification should be modified, eliminated or extended.

Temporary modifications of standards on twelve segments were reviewed. The Commission took no action on the temporary modifications on the following segments.

Temporary modification of the selenium (type i) and sulfate (type i) standards: The City of Pueblo presented evidence indicating progress is being made on resolving the uncertainty regarding the underlying acute and chronic selenium and sulfate standards on Lower Arkansas segment 1a and chronic selenium on Lower Arkansas segment 1b. The Commission made no change to the expiration date of 6/30/2016 as the original time allotment was deemed adequate.

Temporary modification of the temperature standard (type B) for various segments in the Purgatoire Basin: The Commission made no change to the expiration date of 6/30/2016 as the original time allotment was deemed adequate to resolve the uncertainty for the following Lower Arkansas River Segments: 3a, 3b, 4b, 5b, 5c, 6a, 6b, 15, 16 and 17.

EXHIBIT 2

WATER QUALITY CONTROL DIVISION - 33

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION: 12	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
BASIN: Blue RIVER			PHYSICAL and BIOLOGICAL	INORGANIC mg/l			METALS ug/l		
Stream Segment Description									
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 E Water Supply Agriculture	T=TVS(CS-I) ⁹ C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla=150 mg/m ² C	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 P=110 ug/l (tot) ^C	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) Mo(ch)=210(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21. Temporary modification: Mo(ch)="current conditions" Expiration date of 12/31/16.

REGION: 12	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
BASIN: Yampa River			PHYSICAL and BIOLOGICAL	INORGANIC mg/l			METALS ug/l		
Stream Segment Description									
13i. Mainstem of Grassy Creek, including all tributaries and wetlands, from the source to immediately above the confluence with Scotchmans Gulch.	UP	Aq Life Warm 2 Recreation N Agriculture	T=TVS(WS-II) ⁹ C D.O.=5.0 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=100 P=170 ug/l (tot)	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) Mo(ch)=160(Trec) Ni(ac/ch)=TVS	Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modification: Fe(ch): "current conditions" for Little Grassy Creek. Expiration date of 12/31/16. Temporary modification: Se(ch): "current conditions" Expiration date of 12/31/18. See section 33.6(4) for iron assessment locations.

WATER QUALITY CONTROL DIVISION - 33
Proposed

33.52 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 8, 2014 RULEMAKING; FINAL ACTION JANUARY 12, 2015; EFFECTIVE DATE JUNE 30, 2015

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

BASIS AND PURPOSE

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the Commission reviewed the status of temporary modifications scheduled to expire before December 31, 2016, to determine whether the temporary modification should be modified, eliminated or extended. Temporary modifications of standards on two segments were reviewed.

No action: The Commission took no action on the temporary modification of the chronic molybdenum standard for Blue River segment 14: Climax Molybdenum has presented evidence of an adequate plan for eliminating the need for the temporary modification and progress is being made on resolving the uncertainty regarding the underlying molybdenum standards on Blue River segment 14. The Commission made no change to the expiration date of 12/31/2016 as the original time allotment was deemed adequate.

Deletion: The Commission eliminated the temporary modification of the iron standard for Yampa River segment 13i. The Commission has found that Peabody Coal, Inc. has an inadequate plan to eliminate the need for the temporary modification. In reviewing Peabody's plan, the Commission found that the plan does not address the question of what level is necessary to protect aquatic life. The Commission deleted the temporary modification; the underlying standard will go into effect on the effective date of this rulemaking proceeding.

EXHIBIT 3 WATER QUALITY CONTROL DIVISION - 34

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION: 9 BASIN: ANIMAS AMD FLORIDA RIVER	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
Stream Segment Description									
13b. All tributaries to the Animas River from a point immediately below the confluence with Hermosa Creek to the Southern Ute Indian Reservation boundary except for the specific listings in Segments 12d, 13a, 14a and 14b; all tributaries to the Florida River, from a point immediately below the confluence with Mud Creek to the Southern Ute Indian Reservation boundary, except for specific listings in Segment 12d.		Aq Life Cold 2 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(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Water + Fish Standards Temporary Modification for Coal Gulch, including all tributaries: NH ₃ =current condition. Type A Expiration date 6/30/2015 <u>16</u> Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.

REGION: 9 BASIN: LA PLATA RIVER, MANCOS RIVER, McELMO CREEK, AND SAN JUAN RIVER IN MONTEZUMA COUNTY AND DOLORES COUNTY	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
Stream Segment Description									
7a. Mainstem of McElmo Creek from the source to the Colorado/Utah border, except for the specific listings in Segment 7b. Mainstem of Yellow Jacket Creek, including all tributaries and wetlands, from the source to the confluence with McElmo Creek.		Aq Life Warm 1 Recreation E 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 =100	As(ac)=340 As(ch)=7.6(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrIII(ch)=100(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=2200(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary Modifications: NH ₃ (ac)=old TVS, NH ₃ (ch)=0.06(type A) Expiration date of 6/30/2014 <u>16</u> .
8c. Unnamed tributary to Ritter Draw (confluence at 37.40216,-108.54582).	UP	Aq Life Warm 2 Recreation E 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 =100	As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrIII(ch)=100(Trec) CrVI(ac/ch)=TVS	Cu(ac/ch)=TVS Fe(ch)=1000(Trec) Mn(ac/ch)=TVS Pb(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary Modification: NH ₃ =current conditions Type A Expiration date 6/30/2014 <u>16</u> .

WATER QUALITY CONTROL DIVISION - 34
Proposed

34.43 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 8, 2014 RULEMAKING; FINAL ACTION JANUARY 12, 2015; EFFECTIVE DATE JUNE 30, 2015

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

BASIS AND PURPOSE

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the Commission reviewed the status of temporary modifications scheduled to expire before December 31, 2016, to determine whether the temporary modification should be modified, eliminated or extended. Temporary modifications of standards on 3 segments were reviewed.

Extension: The Commission extended the expiration date of ammonia temporary modifications on the following segments.

Animas River segment 13b
La Plata, etc. segments 7a and 8c

Temporary modifications of the ammonia standards for these segments, due to expire on 6/30/2015, were extended to 6/30/2016. The Division is working with small domestic dischargers on these segments to explore the possibility of proposing discharger specific variances. Progress continues to be made to improve water treatment for these segments.

EXHIBIT 4 WATER QUALITY CONTROL DIVISION - 35

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION: 10 BASIN: UPPER GUNNISON RIVER BASIN	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
Stream Segment Description			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
12. Mainstem of Coal Creek, including all tributaries and wetlands from a point immediately below the Crested Butte Water Supply intake which is above the confluence with the Mount Emmons/Red Lady Basin drainage to the confluence with the Slate River, with the exception of Wildcat Creek.		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=.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)=191(dis) Hg(ch)=0.01(tot) Mo(ch)=160(Trec) Ni(ac/ch)=TVS Se(ac/ch)=TVS	Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary Modifications: Type B Cd(ch)= 2.1 Cu(ch)=current conditions Zn(ch)= 440 Expiration date June 30, 2016 As(ch)=hybrid Expiration date of 12/31/21
20. Mainstem of Indian Creek, including all tributaries, from the source to the confluence with Marshall Creek.		Aq Life Cold 1 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 E.Coli=126/100ml	NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=.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 CrIII(ch)=100(Trec) 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) Mo(ch)=160(Trec) Ni(ac/ch)=TVS	Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) U(ac)= lowest practical level U(ch)= lowest practical level Zn(ac/ch)=TVS	Temporary Modification at sampling site SW-33 (38.399519, -106.308190 WGS84) Type B June-July U(ac)=1515(tot) U(ch)=1349(tot) Aug-May U(ac)=1144(tot) U(ch)=1080(tot) Expiration date June 30, 2015
REGION: 10 BASIN: SAN MIGUEL RIVER	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
3b. Mainstem of the San Miguel River from a point immediately above the confluence of Marshall Creek to a point immediately above the confluence of the South Fork San Miguel River.		Aq Life Cold 1 Recreation E Water Supply Agriculture	April-May T _(DM) =14.0 °C T _(MWAT) =9.0 °C June-Sept T _(DM) =21.7 °C T _(MWAT) =17.0 °C Oct T _(DM) =13.9 °C T _(MWAT) =9.0 °C Nov-March T _(DM) =13.0 °C T _(MWAT) =9.0 °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=.005	S=0.002 B=0.75 NO ₂ =0.5 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(ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Cd(ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(tot) Mo(ch)=160(Trec) Ni(ac/ch)=TVS	Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ch)=190	<u>Temporary Modifications:</u> <u>As(ch)=hybrid</u> <u>Expiration date of 12/31/21.</u>

REGION: 10 BASIN: UNCOMPAHGRE RIVER	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
3b. Mainstem of the Uncompahgre River from a point immediately above the confluence with Cascade Creek to a point immediately above the confluence with Dexter Creek.		Aq Life Cold 1 Recreation E Water Supply Agriculture	June-Oct 15 T _(DM) =21.7 °C T _(MMAT) =17.0 °C Oct 16-May T _(DM) =13.0 °C T _(MMAT) =9.0 °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=.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)= 4067(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	<u>Temporary Modifications:</u> <u>As(ch)=hybrid</u> <u>Expiration date of 12/31/21</u>

WATER QUALITY CONTROL DIVISION - 35
Proposed

35.39 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 8, 2014 RULEMAKING; FINAL ACTION JANUARY 12, 2015; EFFECTIVE DATE JUNE 30, 2015

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

BASIS AND PURPOSE

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the Commission reviewed the status of temporary modifications scheduled to expire before December 31, 2016, to determine whether the temporary modification should be modified, eliminated or extended. Temporary modifications of standards on 2 segments were reviewed.

No Action: The Commission took no action on the temporary modifications for the following segments.

Upper Gunnison River segment 12, metals standards (type B): US Energy is making progress toward resolution of uncertainty regarding the underlying chronic cadmium, copper and zinc standards on Upper Gunnison River segment 12. The Commission made no change to the expiration date of 6/30/2016 because the original time allotment was deemed adequate.

Upper Gunnison River segment 20, acute and chronic uranium standards (type B): Homestake Mining Company is currently conducting reclamation of the Pitch Uranium Mine in Saguache County and evidence was presented indicating progress is being made toward resolving uncertainty regarding the underlying standard in Upper Gunnison River segment 20. The Commission made no change to the expiration date of 6/30/2015 because the original time allotment was deemed adequate.

New Temporary Modifications: To remain consistent with the Commission's decisions regarding arsenic at 35.36, arsenic temporary modifications were added to the following two segments, which had an existing chronic arsenic standard of 0.02 ug/l and a permitted discharger with a predicted water quality-based effluent limit compliance problem:

San Miguel segment 3a
Uncompahgre segment 3b

EXHIBIT 5 WATER QUALITY CONTROL DIVISION - 36

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION: 8	Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS	
BASIN: RIO GRANDE			PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l				
Stream Segment Description									
4a.	Mainstem of the Rio Grande from a point immediately above the confluence with Willow Creek to a point immediately above the confluence with the South Fork Rio Grande.	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	Standards effective through 12/31/2016 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 CrVI(ac/ch)=TVS Cu(ac/ch)=TVS Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Hg(ch)=0.01(Trec) Mo(ch)=160(Trec) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) low flow* Cd(ac/ch)=2.6/1.5 Pb(ch)=3.0 Mn(ch)=165 Zn(ac/ch)=548/393 high flow** Cd(ac/ch)=1.0/0.63 Pb(ch)=1.3 Mn(ch)=WS(dis) Zn(ac/ch)=272/183	Tier 1 standards effective 1/1/2017 through 12/31/2018 As(ac)=340 As(ch)=0.02(Trec) 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)=TVS Mn(ac)=TVS Hg(ch)=0.01(Trec) Mo(ch)=160(Trec) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) low flow* Cd(ac/ch)=2.6/1.5 Pb(ch)=3.0 Mn(ch)=165 Zn(ac/ch)=548/393 high flow** Cd(ac/ch)=1.0/0.63 Pb(ch)=1.3 Mn(ch)=WS(dis) Zn(ac/ch)=272/183	Tier 2 standards effective from 1/1/2019 As(ac)=340 As(ch)=0.02(Trec) 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)=TVS Mn(ac)=TVS Hg(ch)=0.01(Trec) Mo(ch)=160(Trec) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) low flow* Cd(ac/ch)=2.0/0.88 Pb(ch)=1.5 Mn(ch)=92 Zn(ac/ch)=306/148 high flow** Cd(ac/ch)=0.83/0.51 Pb(ch)=0.75 Mn(ch)=WS(dis) Zn(ac/ch)=225/136	Temporary Modifications: Type B Cd(ch)=current condition Pb(ch)=current condition Zn(ch)=current condition Expiration Date of 12/31/2016 Temporary modification: As(ch)=hybrid Expiration date of 12/31/21. *Low flow is August-March **High flow is April-July

WATER QUALITY CONTROL DIVISION - 36
Proposed

36.36 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 8, 2014 RULEMAKING; FINAL ACTION JANUARY 12, 2015; EFFECTIVE DATE JUNE 30, 2015

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

BASIS AND PURPOSE

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the Commission reviewed the status of temporary modifications scheduled to expire before December 31, 2016, to determine whether the temporary modification should be modified, eliminated or extended. Temporary modifications of standards on one segment were reviewed.

No Action: The Commission took no action on the temporary modifications of the metals (Type B) standards on Rio Grande segment 4a. Rio Grande Silver provided evidence that it is making progress on resolving uncertainty regarding the underlying chronic cadmium, lead and zinc standards on the mainstem of the Rio Grande below the confluence with Willow Creek. The Commission made no change to the expiration date of 6/30/2015 as the original time allotment was deemed adequate.

EXHIBIT 6 WATER QUALITY CONTROL DIVISION - 37

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION: 11 BASIN: Lower Colorado River	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
Stream Segment Description									
4e. Mainstem of Dry Creek including all tributaries and wetlands from the source to immediately above the Last Chance Ditch.	UP	Aq Life Cold 2 Recreation N Agriculture	T=TVS(CS-II) °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 P=110 ug/l ^c	As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrIII(ch)=100(Trec) 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) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary Modifications: Cu(ac/ch)= current conditions Expiration 6/30/2017 Fe(ch)= current conditions Expiration 6/30/2015

WATER QUALITY CONTROL DIVISION - 37
Proposed

37.34 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 8, 2014 RULEMAKING; FINAL ACTION JANUARY 12, 2015; EFFECTIVE DATE JUNE 30, 2015

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

BASIS AND PURPOSE

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the Commission reviewed the status of temporary modifications scheduled to expire before December 31, 2016, to determine whether the temporary modification should be modified, eliminated or extended. Temporary modification of a standard on one segment was reviewed.

Lower Colorado segment 4e, delete the temporary modification of the iron standard: The Commission found that Tri-State Power and Generation, Inc. has an inadequate plan to eliminate the need for the temporary modification. In reviewing Tri-State's plan, the Commission found that the plan does not address the question of what level is necessary to protect aquatic life. The Commission deleted the temporary modification; the underlying standard will go into effect on the effective date of this rulemaking proceeding.

EXHIBIT 7 WATER QUALITY CONTROL DIVISION - 38

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION: 3 AND 4 BASIN: UPPER SOUTH PLATTE RIVER	DESIG	CLASSIFICATIONS	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS µg/l			
Stream Segment Description									
3. All tributaries to the South Platte River, including all wetlands from a point immediately below the confluence with Tarryall Creek to a point immediately above the confluence with the North Fork of the South Platte River, except for specific listings in Segment 1b.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) °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 =0.5 NO ₃ =10 Cl=250 S ₀₄ =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(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	<u>Temporary modifications:</u> <u>NH₃(ac/ch) = current condition below the Florissant Wastewater Treatment Facility outfall.</u> <u>Expiration date of 12/31/2017.</u> Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
10a. Mainstems of East Plum Creek, West Plum Creek, and Plum Creek from the boundary of National Forest lands to Chatfield Reservoir, mainstems of Stark Creek and Gove Creek from the boundary of National Forest lands to their confluence.		Aq Life Warm 1 Recreation E Water Supply Agriculture	T=TVS(WS-I) °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 =0.5 NO ₃ =10 Cl=250 S ₀₄ =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(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	<u>Temporary modifications:</u> Cu (ac/ch) = TVSx2.4 on East Plum Creek and Plum Creek below the Plum Creek Wastewater Authority Discharge. (Type iii). Expiration date of 12/31/2015. Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
14. Mainstem of the South Platte River from the outlet of Chatfield Reservoir to the Burlington Ditch diversion in Denver, Colorado.		Aq Life Warm 1 Recreation E Water Supply Agriculture	T=TVS(WS-I) °C summer=14 Feb- Nov 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 =0.5 NO ₃ =10 Cl=250 S ₀₄ =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)=190(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	<u>Temporary modifications:</u> Cu(ac/ch)=TVSx2.7 (Type iii). Applies below the confluence with Marcy Gulch. Expiration date of 12/31/2015. T=current conditions (Type iii). Expiration date of 12/31/2015. Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
15. Mainstem of the South Platte River from the Burlington Ditch diversion in Denver, Colorado, to a point immediately below the confluence with Big Dry Creek.	UP	Aq Life Warm 2 Recreation E Water Supply Agriculture	T=TVS(WS-I) °C D.O.* 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 =1.0 NO ₃ =10 Cl=250 S ₀₄ =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)=400(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	*See attached table for site-specific Dissolved Oxygen and Ammonia standards. **pH=6.0-9.0 from 64 th Ave. downstream 2 miles. <u>Temporary modifications:</u> NH ₃ (ac)=TVS(old); NH ₃ (ch)=0.10 mg/l (Type i). Expiration date of 12/31/2014. Cu(ac/ch)=TVSx2.3 (Type iii). Expiration date of 12/31/2015. T=current conditions (Type iii). Expiration date of 12/31/2015.

16g. Marcy Gulch, including all wetlands from the source to the confluence with the South Platte.	UP	Aq Life Warm 2 Recreation E 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 =0.5 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)=21 Se(ch)=13 Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modifications: Cu (ac/ch) = TVSx2.4 below the Centennial Wastewater Treatment Facility outfall. (Type iii). Expiration date of 12/31/2015. T=current conditions (Type iii). Expiration date of 12/31/2015. Selenium: see assessment locations at 38.6(4)(g).
16i. Mainstem of Sand Creek from the confluence with Toll Gate Creek to the confluence with the South Platte River.		Aq Life Warm 2 Recreation E 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 =0.5 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	Upper:* Se(ch)=38.2 Se(ac)=45.1 Lower:* Se(ch)=9.0 Se(ac)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	* See section 38.6(4)(f) for selenium assessment locations Temporary Modifications: Cu (ac/ch) = TVSx2.6 below the Sand Creek Water Reuse Facility outfall. (Type iii). Expiration date of 12/31/2015. Hg(ch)=current condition, Expiration date of 6/30/2017

REGION: 3 AND 4 BASIN: BEAR CREEK Stream Segment Description	DESIG	CLASSIFICATIONS	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS µg/l			
1c. Bear Creek Reservoir.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CLL) °C April-Dec T _(WAT) =23.3°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Mean chlorophyll = 10 µg/l and mean total phosphorus = 32 µg/l measured through collection of samples that are representative of the mixed layer during summer months (July, August, September) and with an exceedance frequency of once in five years.	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(Tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: Chlorophyll and total phosphorus equal to existing conditions (Type iii). Expiration date of 12/31/2015. Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.

REGION: 3 AND 4 BASIN: CLEAR CREEK	DESIG	CLASSIFICATIONS	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS µg/l			
Stream Segment Description									
2a. Mainstem of Clear Creek, including all tributaries and wetlands, from the I-70 bridge above Silver Plume to a point just above the confluence with West Fork Clear Creek, except for specific listings in Segments 3a and 3b.	9/30/00 Baseline does not apply	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 SO ₄ =WS Cl=250	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(Tot) Zn(ac)= 0.978e ^{(0.8537[ln(hardness)]+1.9467)} Zn(ch)= 0.986e ^{(0.8537[ln(hardness)]+1.8032)}	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr)	Temporary modifications: Zn(ch)=353 µg/l (dis), Zn(ac)=586 µg/l (dis), (Type i) Cd(ch)=1.54(dis) (type iii) Expiration date of 7/01/2015. Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
2c. Mainstem of Clear Creek, including all tributaries and wetlands, from a point just below the confluence with Mill Creek to a point just above the Argo Tunnel discharge, except for specific listings in Segments 9a, 9b, and 10.	9/30/00 Baseline does not apply	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 SO ₄ =WS Cl=250	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(Tot) Zn(ac)= 0.978e ^{(0.8537[ln(hardness)]+1.9467)} Zn(ch)= 0.986e ^{(0.8537[ln(hardness)]+1.8032)}	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr)	Temporary modifications: Cu(ch)=11.4 µg/l (dis), (Type iii) Expiration date of 7/01/2015. Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
9a. Mainstem of the Fall River, including all tributaries and wetlands, from the source to the confluence with Clear Creek.	9/30/00 Baseline does not apply	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(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	Temporary modification: Cu(ch)=9.6 µg/l (dis), (type iii) Expiration date of 7/01/2015.
11. Mainstem of Clear Creek from a point just above the Argo Tunnel discharge to the Farmers Highline Canal diversion in Golden, Colorado.	UP	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/ch)=TVS Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ch)=17	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) Zn(ac)= 0.978e ^{(0.8537[ln(hardness)]+1.9467)} Zn(ch)= 0.986e ^{(0.8537[ln(hardness)]+1.8032)}	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr)	Temporary modification: Cd(ch)=1.42 µg/l (dis), (type iii) Expiration date of 7/01/2015. Temporary modification: As(ch)=hybrid Expiration date of 12/31/21
14a. Mainstem of Clear Creek from the Farmers Highline Canal diversion in Golden, Colorado to the Denver Water conduit #16 crossing.	UP	Aq Life Warm 2 Recreation N Water Supply Agriculture	T=TVS (WS-II)°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 =0.5 NO ₃ =10 Cl=250 SO ₄ =WS	As(ac)=340 As(ch)=0.02-10(Trec) Cd(ac/ch)=TVS 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)=TVS Mn(ch)=244 Hg(ch)=0.01(tot) Ni(ac/ch)=TVS	Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVSx1.57*	Temporary modifications: Cu(ac/ch)=TVSx3.66*, T=current condition (type iii) Expiration date of 12/31/2015.
14b. Mainstem of Clear Creek from the Denver Water conduit #16 crossing to a point just below Youngfield Street in Wheat Ridge, Colorado.	UP	Aq Life Warm 2 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 =0.5 NO ₃ =10 Cl=250 SO ₄ =WS	As(ac)=340 As(ch)=0.02-10(Trec) Cd(ac/ch)=TVS 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)=TVS Mn(ch)=244 Hg(ch)=0.01(tot) Ni(ac/ch)=TVS	Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVSx1.57*	Temporary modifications: Cu(ac/ch)=TVSx3.66*, T=current condition (type iii) Expiration date of 12/31/2015.

REGION: 3 AND 4 BASIN: CLEAR CREEK	DESIG	CLASSIFICATIONS	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS µg/l			
Stream Segment Description									
15. Mainstem of Clear Creek from Youngfield Street in Wheat Ridge, Colorado, to the confluence with the South Platte River.		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 =0.5 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(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVSx1.57*	Aquatic life warm 1 goal qualifier. Temporary Modifications: Cu(ac/ch)=TVSx3.66*, T=current condition (Type iii) Expiration date of 12/31/2015. Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.

REGION: 3 AND 4 BASIN: BOULDER CREEK	DESIG	CLASSIFICATIONS	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS µg/l			
Stream Segment Description									
8. All tributaries to South Boulder Creek, including all wetlands from South Boulder Road to the confluence with Boulder Creek and all tributaries to Coal Creek, including all wetlands from Highway 93 to the confluence with Boulder Creek.	UP	Aq Life Warm 2 Recreation E 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 =0.5 NO ₃ =100 Cl=250 SO ₄ =250	As(ac)=340 As(ch)=100(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	Temporary modifications: Se(ch)=12.2 µg/l (dis). (Type iii). Expiration date of 12/31/2015.
9. Mainstem of Boulder Creek from a point immediately above the confluence with South Boulder Creek to the confluence with Coal Creek.		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 =0.5 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(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	Temporary modifications: Cu (ac/ch)=Current Condition. (Type iii). Expiration date of 12/31/2015. Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.

REGION: 3 AND 4 BASIN: ST. VRAIN CREEK	DESIG	CLASSIFICATIONS	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS µg/l			
Stream Segment Description									
2b. Mainstem of St. Vrain Creek, including all tributaries and wetlands, from the eastern boundary of Roosevelt National Forest to Hygiene Road.		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(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	Temporary modification: Cu(ch)=6.0 µg/l (dis). (Type iii). Expiration date of 12/31/2015.
6. All tributaries to St. Vrain Creek, including wetlands from Hygiene Road to the confluence with the South Platte River, except for specific listings in the Boulder Creek subbasin and in Segments 4a, 4b, 4c and 5.	UP	Aq Life Warm 2 Recreation E 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 =0.5 NO ₃ =100	As(ac)=340 As(ch)=100 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 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	Temporary modifications: Se(ch)=6.6µg/l (dis). (Type iii). Expiration date of 12/31/2015.

REGION: 3 AND 4 BASIN: MIDDLE SOUTH PLATTE RIVER	DESIG	CLASSIFICATIONS	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS µg/l			
Stream Segment Description									
1a. Mainstem of the South Platte River from a point immediately below the confluence with Big Dry Creek to the confluence with St. Vrain Creek.	UP	Aq Life Warm 2 Recreation E Water Supply Agriculture	T=TVS(WS-II) °C D.O.* 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 =0.5 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) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVSx2.2	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	*See attached table for site-specific Dissolved Oxygen and Ammonia standards. Temporary modifications: Se(ch)=6.9 µg/l (dis). (Type iii). Expiration date of 12/31/2015. NH ₃ (ac)=TVS(old) NH ₃ (ch)=0.10 (Type i). Expiration date of 12/31/2014.
4. Barr Lake and Milton Reservoir.	UP	Aq Life Warm 2 Recreation E 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 =0.5 NO ₃ =10 Cl=250 SO ₄ =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac/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/ch)=TVS Zn(ac/ch)=TVS	Fish Ingestion Standards Temporary modification: pH= existing quality (Type iii). Expiration date of 12/31/2015.

REGION: 3 AND 4 BASIN: BIG THOMPSON RIVER Stream Segment Description	DESIG	CLASSIFICATIONS	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS µg/l			
2. Mainstem of the Big Thompson River, including all tributaries and wetlands from the boundary of Rocky Mountain National Park to the Home Supply Canal diversion, except for the specific listing in Segment 7; mainstem of Black Canyon Creek and Glacier Creek below Estes Park water treatment plant.		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(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	Temporary modifications: D.O., E. coli, NH ₃ , NO ₃ , B, Cd, Cu, Pb, Hg, Ni, Se, Ag, Zn = current condition. Wapiti Meadow wetlands at the toe of Lake Estes Dam (Type iii). Expiration date of 12/31/2015. Cu(ch)=2.5 µg/l (dis). (Type iii). Mainstem. Expiration date of 12/31/2015. Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
4b. Mainstem of the Big Thompson from the Greeley-Loveland Canal diversion to County Road 11H.		Aq Life Warm 2 Agriculture 5/1 – 10/15 Recreation E 10/16 – 4/30 Recreation N	T=TVS(WS-I) °C D.O. = 5.0 mg/l pH = 6.5-9.0 5/1 – 10/15 E.Coli=126/100ml 10/16 – 4/30 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 =0.5 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	Fish Ingestion Standards Temporary modification: Se(ch)=5.5µg/l (dis). (type iii) Expiration date of 12/31/2015.
5. Mainstem of The Big Thompson River from I-25 to the confluence with the South Platte River.		Aq Life Warm 2 Agriculture 5/1 – 10/15 Recreation P 10/16 – 4/30 Recreation N	T=TVS(WS-I) °C D.O. = 5.0 mg/l pH = 6.5-9.0 5/1 – 10/15 E.Coli=205/100ml 10/16 – 4/30 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 =0.5 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)=5.7 µg/l (dis). (Type iii). Expiration date of 12/31/2015.
9. Mainstem of the Little Thompson River from the Culver Ditch diversion to the confluence with the Big Thompson River.		Aq Life Warm 2 Recreation E 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 =0.5 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)=13.1 µg/l (dis). (Type iii). Expiration date of 12/31/2015.

REGION: 3 AND 4 BASIN: CACHE LA POUFRE RIVER	DESIG	CLASSIFICATIONS	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS µg/l			
Stream Segment Description									
11. Mainstem of the Cache La Poudre River from Shields Street in Ft. Collins to a point immediately above the confluence with Boxelder Creek.		Aq Life Warm 2 Recreation E Agriculture	T=TVS(WS-I) °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 =2.7 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	Nitrite as a 30 day average. Fish Ingestion Standards Temporary Modifications: Se(ch)=5.4 µg/l (dis). (Type iii). Expiration date of 12/31/2015.
12. Mainstem of the Cache La Poudre River from a point immediately above the confluence with Boxelder Creek to the confluence with the South Platte River.		Aq Life Warm 2 Recreation E Agriculture	T=TVS(WS-I) °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 =2.7 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	Nitrite as a 30 day average. Fish Ingestion Standards Temporary modifications: Se(ch)=7.1 µg/l (dis). (Type iii). Expiration date of 12/31/2015.
13b. Mainstem of Boxelder Creek from its source to the confluence with the Cache La Poudre River.		Aq Life Warm 2 5/15-9/15 Recreation P 9/16-5/14 Recreation N Agriculture	T=TVS(WS-II) °C D.O.=5.0 mg/l pH=6.5-9.0 5/15-9/15 E.Coli=205/100ml 9/16-5/14 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 =0.5 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)=13.0 µg/l (dis). (Type iii). Expiration date of 12/31/2015.

REGION: 3 AND 4 BASIN: LOWER SOUTH PLATTE RIVER	DESIG	CLASSIFICATIONS	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS µg/l			
Stream Segment Description									
1. Mainstem of the South Platte River from the Weld/Morgan County line to the Colorado/Nebraska border.		Aq Life Warm 2 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 =0.5 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) 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/ch)=TVS Zn(ac/ch)=TVS	Temporary modification Se(ch)=12.3 µg/l (dis). (Type iii). Expiration date of 12/31/2015.

WATER QUALITY CONTROL DIVISION -38
Proposed

38.89 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE DECEMBER 8, 2014 RULEMAKING; FINAL ACTION JANUARY 12, 2015; EFFECTIVE DATE JUNE 30, 2015

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

BASIS AND PURPOSE

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the Commission reviewed the status of temporary modifications scheduled to expire before December 31, 2016, to determine whether the temporary modification should be modified, eliminated or extended.

No action: The Commission took no action on the temporary modifications on the following segments. Unless otherwise noted, these temporary modifications will expire 12/31/2015. The basin-wide review hearing is scheduled for June 2015 and it is anticipated that any remaining issues will be resolved in that hearing process.

Upper South Platte River segment 10a, copper
Upper South Platte River segment 14, copper, temperature
Upper South Platte River segment 15, ammonia, copper, temperature
Upper South Platte River segment 16g, copper, temperature
Upper South Platte River segment 16i, copper

Bear Creek Basin segment 1c, chlorophyll, total phosphorus

Clear Creek Basin segment 2a, zinc, copper (expiration date of 7/01/2015)
Clear Creek Basin segment 2c, copper (expiration date of 7/01/2015)
Clear Creek Basin segment 9a, copper (expiration date of 7/01/2015)
Clear Creek Basin segment 11, copper (expiration date of 7/01/2015)
Clear Creek Basin segment 14a, copper, temperature
Clear Creek Basin segment 14b, copper, temperature
Clear Creek Basin segment 15, copper, temperature

Boulder Creek Basin segment 8, selenium (expiration date of 7/01/2015)
Boulder Creek Basin segment 9, Copper (expiration date of 7/01/2015)

St.Vrain Creek Basin segment 2b, copper
St.Vrain Creek Basin segment 6, selenium

Middle South Platte Basin segment 1a, selenium, ammonia
Middle South Platte Basin segment 4, Barr Lake and Milton Reservoirs, pH

Big Thompson River Basin segment 2, DO, E.coli, ammonia, nitrate, boron, cadmium, copper
lead, mercury, nickel, selenium, silver, and zinc
Big Thompson River Basin segment 4b, selenium
Big Thompson River Basin segment 5, selenium
Big Thompson Basin River segment 9, selenium

Cache La Poudre River segment 11, selenium
Cache La Poudre River segment 12, selenium
Cache La Poudre River segment 13b, selenium

Lower South Platte River Basin segment 1, selenium

New Temporary Modification: The Commission adopted a new temporary modification of the ammonia standard in a portion of Upper South Platte segment 3, below the Florissant Water and Sanitation District wastewater treatment facility. Evidence was presented that the discharger has a compliance problem and there is significant uncertainty regarding whether there are feasible treatment options. This temporary modification will expire on December 31, 2017 and will be reviewed in the December 2015 annual review.

EXHIBIT 8
Pioneer Natural Resources USA, INC. and XTO ENERGY, INC.

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION: 7 BASIN: LOWER ARKANSAS RIVER	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
Stream Segment Description									
3a. Mainstem of the Apishapa River, including all tributaries and wetlands, from the source to I-25, except for specific listings in Middle Arkansas segment 1 and Lower Arkansas segments 3b and 3c.		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 Chla=150 mg/m ²	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 P=110 ug/l (tot)	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) Mo(ch)=160(Trec) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21. Temporary modification Type B: Temperature="current conditions" Expiration date of 6/30/2016 12/31/2019.
3b. Mainstem of West Torino Canyon Creek, North Fork, Middle Fork and mainstem of Trujillo Creek, Mitotes Canyon Creek, Luis Canyon Creek, Wheeler Canyon Creek, Mauricio Canyon Creek, Daisy Canyon Creek, Adobe Canyon Creek, Gonzales Canyon Creek, Frio Canyon Creek, Borrego Canyon Creek, Munoz Canyon Creek, William Canyon Creek and Castro Canyon Creek, including all tributaries, from their sources to their confluences with the Apishapa River, except for the specific listings in Middle Arkansas segment 1.	UP	Aq Life Warm 2 Recreation N Water Supply Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E.Coli=630/100ml	NH ₃ (ch)=0.5 CN=0.2 S=0.05	B=0.75 NO ₂ (ac)=1.0 NO ₃ (ac)=10 Cl=250 SO ₄ =WS P=170 ug/l (tot)	As(ac)=340 As(ch)=0.02-10(Trec) ^A Cd(ac)=5.0(Trec) CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac)=50(Trec) Cu(ac)=200(Trec)	Fe(ch)=WS(dis) Pb(ac)=50(Trec) Mn(ch)=WS(dis)	Hg(ac)=2.0(Trec) Mo(ch)=160(Trec) Ni(ch)=100(Trec) Se(ch)=20(Trec) Ag(ac)=100(Trec) Zn(ch)=2000(Trec)	Temporary modification Type B: Temperature="current conditions" Expiration date of 6/30/2016 12/31/2019.
4b. Mainstem of Lorencito Canyon, from the source to the confluence with the Purgatoire River.	UP	Aq Life Warm 2 Recreation E Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml Chla=150 mg/m ²	NH ₃ (ac/ch)=TVS CL ₂ (ac)=0.019 CL ₂ (ch)=0.011	CN=0.005 S=0.002 B=4.0 NO ₂ =0.5 NO ₃ =100 P=170 ug/l (tot)	As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrIII(ch)=100(Trec) 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) Mo(ch)=160(Trec) Ni(ac/ch)=TVS	Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modification Type B: Temperature="current conditions" Expiration date of 6/30/2016 12/31/2019.
5a. Mainstem of the North Fork of the Purgatoire River, including all tributaries and wetlands, from the source to a point immediately below the confluence with Guajatomayah Creek; mainstem of the Middle Fork of the Purgatoire River, including all tributaries and wetlands, from the source to the Bar Ni Ranch Road at Stonewall Gap; Mainstem of the South Fork of the Purgatoire River, including all tributaries and wetlands, from the source to Tercio.		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 Chla=150 mg/m ²	NH ₃ (ac/ch)=TVS CL ₂ (ac)=0.019 CL ₂ (ch)=0.011 CN=0.005 S=0.002	B=4.0 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS P=110 ug/l (tot)	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) Mo(ch)=160(Trec) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.

5b. Mainstem of the North Fork of the Purgatoire River, including all tributaries and wetlands, from a point immediately below the confluence with Guajatyah Creek to the confluence with the Purgatoire River. Mainstem of the Middle Fork of the Purgatoire River from the Bar Ni Ranch Road at Stonewall Gap to the confluence with the North Fork of the Purgatoire River. Mainstem of the South Fork of the Purgatoire River from Tercio to the confluence with the Purgatoire River. Mainstem of the Purgatoire River to Trinidad Lake. Mainstem of Long Canyon Creek from the source to Trinidad Reservoir.		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 Chla=150 mg/m ² C	NH ₃ (ac/ch)=TVS CL ₂ (ac)=0.019 CL ₂ (ch)=0.011 CN=0.005 S=0.002	B=4.0 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS P=110 ug/l (tot) ^C	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) Mo(ch)=160(Trec) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21. Temporary modification Type B: Temperature= "current conditions" Expiration date of 6/30/204612/31/2019.
5c. Purgatoire mainstem from Trinidad Lake outlet works to I-25. Mainstem of Raton Creek from the source to the confluence of Purgatoire 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 Chla=150 mg/m ² C	NH ₃ (ac/ch)=TVS CL ₂ (ac)=0.019 CL ₂ (ch)=0.011 CN=0.005 S=0.002	B=2.0 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS P=110 ug/l (tot) ^C	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) Mo(ch)=160(Trec) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21. Temporary modification Type B: Temperature= "current conditions" Expiration date of 6/30/204612/31/2019.
6a. All tributaries to the Purgatoire River, including all wetlands, from the source to Interstate 25, except for specific listings in segments 4b, 5a, 5b, 5c and 6b.	UP	Aq Life Cold 2 Recreation 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 E.Coli=126/100ml Chla=150 mg/m ² C	CN=0.2 NO ₂ =10 NO ₃ =100	B=4.0 P=110 ug/l (tot) ^C	As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec) CrIII(ac/ch)=TVS	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mo(ch)=160(Trec)	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	Temporary modification Type B: Temperature= "current conditions" Expiration date of 6/30/204612/31/2019.
6b. Wet Canyon and all tributaries, including wetlands, from the source to the confluence with the Purgatoire River.	UP	Aq Life Cold 2 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 Chla=150 mg/m ²	CN=0.2 NO ₂ =1.0 NO ₃ =10 S=0.05	B=2.0 Cl=250 SO ₄ =WS P=110 ug/l (tot)	As(ch)=0.02-10(Trec) ^A Be(ch)=4.0(Trec) Cd(ac)=5.0(Trec) CrIII(ac)=50(Trec) CrIII(ch)=TVS	CrVI(ac)=50(Trec) CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Fe(ch)=WS(dis) Pb(ac)=50(Trec) Pb(ch)=100(Trec) Mn(ch)=WS(dis)	Hg(ac)=2.0(tot) Mo(ch)=160(Trec) Ni(ch)=100(Trec) Se(ch)=20(Trec) Ag(ac)=100(Trec) Zn(ch)=2000(Trec)	Temporary modification Type B: Temperature= "current conditions" Expiration date of 6/30/204612/31/2019.
16. All lakes and reservoirs tributary to the Purgatoire River from the source to I-25, except for the specific listings in segment 15 and 17.	UP	Aq Life Cold 2 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 Chla=8 ug/l ^B	CN=0.2 NO ₂ =10 NO ₃ =100	B=0.75 P=25 ug/l (tot) ^B	As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec) CrIII(ac/ch)=TVS	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mo(ch)=160(Trec)	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	Temporary modification Type B: Temperature= "current conditions" Expiration date of 6/30/204612/31/2019.
17. All lakes and reservoirs tributary to Wet Canyon, from the source to the confluence with the Purgatoire River.	UP	Aq Life Cold 2 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 Chla=8 ug/l ^B	CN=0.2 NO ₂ =0.05 NO ₃ =10 S=0.05	B=0.75 Cl=250 SO ₄ =WS P=25 ug/l (tot) ^B	As(ch)=0.02-10(Trec) ^A Be(ch)=4.0(Trec) Cd(ac)=5.0(Trec) CrIII(ac)=50(Trec) CrIII(ch)=TVS	CrVI(ac)=50(Trec) CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Fe(ch)=WS(dis) Pb(ac)=50(Trec) Pb(ch)=100(Trec) Mn(ch)=WS(dis)	Hg(ac)=2.0(tot) Mo(ch)=160(Trec) Ni(ch)=100(Trec) Se(ch)=20(Trec) Ag(ac)=100(Trec) Zn(ch)=2000(Trec)	Temporary modification Type B: Temperature= "current conditions" Expiration date of 6/30/204612/31/2019.

Pioneer Natural Resources USA, Inc. and XTO Energy, Inc.
Proposed

32.54 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 8, 2014 RULEMAKING; FINAL ACTION JANUARY 12, 2015; EFFECTIVE DATE JUNE 30, 2015

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

BASIS AND PURPOSE

Pioneer Natural Resources, USA, Inc. (“Pioneer”) and XTO Energy, Inc. (“XTO”) proposed to extend existing temporary modifications for temperature for the the following segments: Lower Arkansas River Basin Segments 3a, 3b, 4b, 5b, 5c, 6a, 6b, 16, and 17.

In 2013, the Commission granted “current condition” temporary modifications for temperature in these segments that are effective until June 30, 2016. The Commission hereby extends the existing temporary modifications for temperature in all of these segments until December 31, 2019. The Commission finds that Pioneer and XTO—existing, permitted dischargers on these segments for almost 20 years—will have difficulty achieving compliance with the underlying cold water, and some warm water, water quality-based temperature standards for these segments.

Further, the Commission recognizes that a lack of data regarding temperature and the impact of temperature on aquatic life in these segments still exists. This creates significant uncertainty regarding the temperature standard necessary to protect current and/or future uses in these segments. The Commission also finds that there is significant uncertainty regarding the extent to which existing temperatures in the segments are the result of natural or human-induced conditions, particularly in an area of on-going discharge to streams from abandoned and current coal mining activities.

Current data also indicates that many of the tributaries included in these segments are dry. Pioneer and XTO are currently evaluating those tributaries to determine whether and where the tributaries are ephemeral or effluent-dependent. In addition, Pioneer and XTO are continuing to evaluate air temperature data, and are considering installing additional air temperature probes to provide increased geographic coverage and a more complete air temperature data set.

Although USGS temperature data from 1978-81 has provided some historical, pre-CBM discharge temperature information for these segments, that data cannot be meaningfully used to calculate the daily maximum (DM) and maximum weekly average temperature (MWAT) values because of the method by which that data was collected and manner in which it has been maintained. Furthermore, this data was collected during a period of on-going discharge from coal mining activities. As a result, DM and MWAT values cannot be calculated as required by the Commission using that USGS data. Pioneer and XTO are currently collecting information to fill in the database for temperature on these segments.

It is the Commission’s intent that the Division and interested parties work to resolve this uncertainty regarding temperature. Pioneer and XTO have an implementation plan in place to eliminate the need for these temporary modifications, and have reasonably followed that plan since the Commission granted these temporary modifications in 2013. The Commission finds that an extension of these temporary modifications is appropriate.

EXHIBIT 9
U.S. ENERGY CORP.

35.6(4) STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION: 10 BASIN: Upper Gunnison River Basin Stream Segment Description	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l				
12. Mainstem of Coal Creek, including all tributaries and wetlands from a point immediately below the Crested Butte Water Supply intake which is above the confluence with the Mount Emmons/Red Lady Basin drainage to the confluence with the Slate River, with the exception of Wildcat Creek.		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=.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)=191(dis) Hg(ch)=0.01(tot) Mo(ch)=160(Trec) Ni(ac/ch)=TVS Se(ac/ch)=TVS	Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary Modifications: Type B Cd(ch)= 2.1 Cu(ch)=current conditions Zn(ch)= 440 Expiration date June 30, 2016 As(ch)=hybrid Expiration date of 12/31/21.

U.S. Energy Corp. **Proposed**

35.39 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE DECEMBER 8, 2014 RULEMAKING; FINAL ACTION JANUARY 12, 2015; EFFECTIVE DATE JUNE 30, 2015

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

BASIS AND PURPOSE

Temporary Modifications

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the Commission reviewed the status of temporary modifications scheduled to expire before December 31, 2016, to determine whether the temporary modification should be modified, eliminated, or extended.

Upper Gunnison River Basin Segment 12:

No action: The Commission took no action on the existing Type B Temporary Modifications for cadmium, copper, and zinc, which were adopted for Segment 12 during the December 10, 2012 Rulemaking. These temporary modifications are scheduled to expire on June 30, 2016. U.S. Energy presented evidence that sufficient progress is being made on implementation of the Study Plan to Evaluate Metals Loading in the Coal Creek Watershed in the Vicinity of the Keystone Mine (the "Study Plan"). The Study Plan, as approved by the Commission, is intended to identify and quantify sources of cadmium, copper, and zinc that may be affecting water quality in Segment 12, including groundwater downgradient of the flooded Keystone Mine workings. U.S. Energy also informed the Commission of certain modifications to the sampling approach set forth in the Study Plan. Changes include: (1) adding three sampling locations to better capture additional loading sources that had not been identified at the time the Study Plan was prepared; (2) discontinuing sampling at five locations where access is restricted or prior sampling showed that metals loading is not significant; (3) eliminating one of the two low flow annual sampling events, because results from the two events in September and November 2013 were similar; and (4) revising the approach for monitoring groundwater quality within and downgradient of the historic Keystone Mine flooded mine workings. The Commission does not believe these modifications will materially affect U.S. Energy's ability to assess the extent to which existing water quality in Segment 12 is the result of natural or irreversible human-induced conditions or to collect the information needed to support adoption of site-specific water quality standards. These temporary modifications will be reviewed again at the annual temporary modification hearing in December 2015.

EXHIBIT 10 Plum Creek Water Reclamation Authority

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION: 3 AND 4 BASIN: UPPER SOUTH PLATTE RIVER	DESIG	CLASSIFICATIONS	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l			METALS µg/l		
Stream Segment Description									
10a. Mainstems of East Plum Creek, West Plum Creek, and Plum Creek from the boundary of National Forest lands to Chatfield Reservoir, mainstems of Stark Creek and Gove Creek from the boundary of National Forest lands to their confluence.		Aq Life Warm 1 Recreation E Water Supply Agriculture	T=TVS(WS-I) °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 =0.5 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(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	<p>Temporary modifications: Cu (ac/ch) = TVSx2.4 on East Plum Creek and Plum Creek below the Plum Creek Wastewater Authority Discharge. (Type iii). Expiration date of 12/31/2015.</p> <p>Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.</p> <p><u>Copper Biotic Ligand Model (BLM)-based Fixed Monitoring Benchmark (FMB)</u> <u>Cu FMBa = 34.3 µg/L</u> <u>Cu FMBb = 20.7 µg/L</u> <u>For mainstems of East Plum Creek and Plum Creek from Castle Rock to Chatfield Reservoir</u></p>

Plum Creek Water Reclamation Authority **Proposed**

38.89 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE DECEMBER 8, 2014 RULEMAKING; FINAL ACTION JANUARY 12, 2015; EFFECTIVE DATE JUNE 30, 2015

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

BASIS AND PURPOSE

Site-specific copper standards for a portion of Segment 10a were adopted based on U.S.EPA's water quality criteria for copper (Cu) using an approved method known as the Biotic Ligand Model or BLM (U.S.EPA 2007), and EPA's method for site-specific calculations in the April 2012 "Calculation of BLM Fixed Monitoring Benchmarks for Copper at Selected Monitoring Sites in Colorado" (EPA 820OR12009). Fixed Monitoring Benchmarks (FMB) for Cu are derived from a probability-based method that incorporates time variability in the BLM-predicted instantaneous water quality criteria (IWQC) as compared to measured in-stream Cu concentrations. The term "FMB" is used because it is a benchmark that can be used to evaluate compliance with water quality criteria at the specific allowed excursion frequency set by these criteria (i.e., no more than one excursion every three years). The site-specific standard was adopted for a portion of Segment 10a, described as the mainstems of East Plum Creek and Plum Creek from the Town of Castle Rock to Chatfield Reservoir.

Extensive data collection supported the derivation of the BLM-based FMB for application in the East Plum Creek and Plum Creek mainstems. To generate FMB values for that portion of Segment 10a, data from three sites on the East Plum Creek mainstem, including one site upstream of Plum Creek Water Reclamation Authority's discharge, and two sites on the Plum Creek mainstem were combined. The resulting acute FMB (FMBa) was calculated at 34.3 µg/L, and the chronic FMB (FMBc) was calculated at 20.7 µg/L. The acute and chronic hardness-based table values standard (TVS) for the same dataset would be 25.2 and 15.9 µg/l, respectively. The Commission retained the TVS throughout the rest of the upstream portions of the segment, including West Plum Creek.

EXHIBIT 11

Upper Clear Creek Watershed Association

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION: 3 AND 4 BASIN: CLEAR CREEK Stream Segment Description	DESIG	CLASSIFICATIONS	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS µg/l				
2a. Mainstem of Clear Creek, including all tributaries and wetlands, from the I-70 bridge above Silver Plume to a point just above the confluence with West Fork Clear Creek, except for specific listings in Segments 3a and 3b.	9/30/00 Baseline does not apply	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 SO ₄ =WS Cl=250	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(Tot) Zn(ac)= 0.978e ^{(0.8537[ln(hardness)]+1.9467)} Zn(ch)= 0.986e ^{(0.8537[ln(hardness)]+1.8032)}	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr)	Temporary modifications: Zn(ch)=353 µg/l (dis), Zn(ac)=586 µg/l (dis), (Type i) <u>Expiration date of 7/01/2020</u> Cd(ch)=1.54(dis) (type iii) Expiration date of 7/01/2015. Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
2c. Mainstem of Clear Creek, including all tributaries and wetlands, from a point just below the confluence with Mill Creek to a point just above the Argo Tunnel discharge, except for specific listings in Segments 9a, 9b, and 10.	9/30/00 Baseline does not apply	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 SO ₄ =WS Cl=250	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) Zn(ac)= 0.978e ^{(0.8537[ln(hardness)]+1.9467)} Zn(ch)= 0.986e ^{(0.8537[ln(hardness)]+1.8032)}	Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr)	Temporary modifications: Cu(ch)=11.4 µg/l (dis), (Type iii) Expiration date of <u>7/01/2020</u> 2015 . Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.

Upper Clear Creek Watershed Association **Proposed**

38.89 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE DECEMBER 8, 2014 RULEMAKING; FINAL ACTION JANUARY 12, 2015; EFFECTIVE DATE JUNE 30, 2015

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

BASIS AND PURPOSE

The Commission extended until July 1, 2020, the temporary modifications for Clear Creek Segment 2a zinc and for Segment 2c copper. The Commission found that: these segments are not currently meeting the respective standards; the Georgetown Wastewater Treatment Facility anticipates problems meeting the zinc standard; the Central Clear Creek Sanitation District Wastewater Treatment Facility anticipates problems meeting the copper standard, and; there are additional ongoing and future remedial activities for metals that could significantly contribute to achieving either or both of these standards. The extent of remedial activities by EPA and CDPHE under CERCLA and by other stakeholders is a key consideration in resolving the uncertainty as to appropriate water quality standards. The extension until July 1, 2020 is intended to allow review of these temporary modifications after the next (2019) CERCLA Five-Year Review is completed.

EXHIBIT 12
Upper Thompson Sanitation District

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION: 3 AND 4 BASIN: BIG THOMPSON RIVER	DESIG	CLASSIFICATIONS	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l			METALS µg/l		
Stream Segment Description									
2. Mainstem of the Big Thompson River, including all tributaries and wetlands from the boundary of Rocky Mountain National Park to the Home Supply Canal diversion, except for the specific listing in Segment 7; mainstem of Black Canyon Creek and Glacier Creek below Estes Park water treatment plant.		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(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	Temporary modifications: D.O., E. coli, NH ₃ , NO ₃ , B, Cd, Cu, Pb, Hg, Ni, Se, Ag, Zn = current condition. Wapiti Meadow wetlands at the toe of Lake Estes Dam (Type iii). Expiration date of 12/31/2015. Cu(ch)=2.5 µg/l (dis). (Type iii) - Mainstem. Expiration date of 12/31/2015. Temporary modification: As(ch)=hybrid Expiration date of 12/31/21. <u>Cu Biotic Ligand Model (BLM) based Fixed Monitoring Benchmark (FMB).</u> <u>Cu FMBa = 12.5 µg/L</u> <u>Cu FMBc = 8.2 µg/L</u> <u>For subsegment of Big Thompson River mainstem from downstream of Lake Estes to the Home Supply Canal diversion.</u>

Upper Thompson Sanitation District **Proposed**

38.89 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE DECEMBER 8, 2014 RULEMAKING; FINAL ACTION JANUARY 12, 2015; EFFECTIVE DATE JUNE 30, 2015

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

BASIS AND PURPOSE

The Commission adopted site-specific copper standards based on an investigation of the copper bioavailability of Segment COSPBT02 that employed the Biotic Ligand Model (BLM) and the Fixed Monitoring Benchmark (FMB) methodologies. BLM results were based on approximately nine years of temporally distinct data sets that were collected at four individual USGS monitoring stations along the mainstem of the Big Thompson River. Acute and chronic FMBs derived from the BLM results and associated in-stream copper concentrations were substantially higher than the previously ascribed table value standards (TVS) or the recently imposed temporary modification.

Based on actual water chemistry and hydraulic conditions, the Commission elected to include data from USGS monitoring stations downstream and exclude data from USGS monitoring stations upstream of Lake Estes, in deriving the FMBs. The USGS stations include: Station M40 immediately upstream of the Upper Thompson Sanitation District's Wastewater Treatment Plant (WWTP) discharge; Station M50 immediately downstream of the WWTP discharge; and Stations M60 and M70 further downstream. The Commission concluded that the stream reach defined by these points was representative of the hydraulically distinct section of the segment.

The results of the BLM/FMB analysis yielded acute and chronic water quality criteria for copper of 12.5 µg/L and 8.2 µg/L, respectively. The Commission adopted these values as the revised numeric standards for the portion of Segment COSPBT02, described as the mainstem of the Big Thompson River between Lake Estes and the Home Supply Canal diversion.

Prior to the BLM/FMB analysis, copper standards for Segment COSPBT02 were based on TVS values that were derived from equations that depended on in-stream hardness, but did not account for other water chemistry parameters. Water quality criteria derived using the BLM were based on a suite of water chemistry parameters including: temperature, pH, dissolved organic carbon (DOC), calcium (Ca^{2+}), magnesium (Mg^{2+}), sodium (Na^+), potassium (K^+), chloride (Cl^-), sulfate (SO_4^{2-}), sulfide (S^{2-}), and alkalinity. Derivation of an FMB further refines the method by reconciling temporally distinct model outputs with concurrent in-stream copper concentrations to set criteria at the specific allowed excursion frequency (i.e., no more than one excursion every three years). As such, implementation of the BLM/FMB method provided a scientifically and statistically robust characterization of the stream and predicted the probability of exceeding the BLM-predicted copper concentration necessary to protect aquatic life therein. The Commission concluded that retaining the TVS throughout the rest of the upstream portions of the segment, would be protective of the higher standard downstream.