

NOTICE OF PUBLIC RULEMAKING HEARING BEFORE THE <u>COLORADO WATER QUALITY CONTROL COMMISSION</u>

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, 2019, and new site specific standards that allow for the deletion of current temporary modifications expiring on or before December 31, 2019, for multiple segments in the Classifications and Numeric Standards for:

- Arakansas River Basin, Regulation #32 (5 CCR 1002-32);
- Upper Colorado River Basin and North Platte River, Regulation #33 (5 CCR 1002-33);
- Rio Grande Basin, Regulation #36 (5 CCR 1002-36);
- Lower Colorado River Basin, Regulation #37 (5 CCR 1002-37); and
- 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, Water Quality Control Division (division);
- Exhibit 2 Regulation #33, division;
- Exhibit 3 Regulation #36, division;
- Exhibit 4 Regulation #37, division;
- Exhibit 5 Regulation #38, division;
- Exhibit 6 Regulation #33, Peabody Sage Creek Mining Company and Seneca Coal Company (Peabody_Seneca); and
- Exhibit 7 Regulation #37, Tri-State Generation and Transmission Association, Inc. (Tri-State).

In these attachments, proposed new language is shown with <u>double-underlining</u> and proposed deletions are shown with strikeouts. Any alternative proposals related to proposed new temporary modifications or current temporary modifications identified in Exhibits 1 through 7, with expiration dates on or before December 31, 2019, will also be considered.

Proponent's prehearing statement due	09/27/2017 5 pm	Additional information below.
Party status requests due	10/04/2017 5 pm	Additional information below.
Responsive prehearing statements due	10/27/2017 5 pm	Additional information below.

SCHEDULE OF IMPORTANT DATES

Rebuttal statements due	11/22/2017 5 pm	Additional information below.
Last date for submittal of motions	11/27/2017 5 pm	Additional information below.
Notify commission office if participating in prehearing conference by phone	11/27/2017 by noon	Send email to <u>cdphe.wqcc@state.co.us</u> with participant(s) name(s)
Prehearing Conference (mandatory for parties)	11/28/2017 2:00 pm	Florence Sabin Conference Room Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, CO 80246 Call-in: 1-857-216-6700, Code: 425132
Rulemaking Hearing	12/11/2017 12:00 pm	Florence Sabin Conference Room Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, CO 80246

HEARING SUBMITTALS:

For this hearing, the commission will receive all submittals electronically. Submittals must be provided as PDF documents, except for raw data exhibits which may be provided as Excel workbooks. Sumbittals may be emailed to <u>cdphe.wqcc@state.co.us</u>, provided via an FTP site, CD or flash drive, or otherwise conveyed to the commission office so as to be received no later than the specified date.

PARTY STATUS:

Party status requests must be in writing and must provide:

- the organization's name,
- one contact person,
- a mailing address,
- a phone number, and
- email addresses of all individuals associated with the party who wish to be notified when new submittals are available on the commission's website for review.

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, along with an explanation of the alleged harm, in their party status request.

PREHEARING AND REBUTTAL STATEMENTS:

Each party must submit a prehearing statement: parties that have proposed revisions attached as exhibits to the notice must submit a proponent's prehearing statement. All other parties must submit a responsive prehearing statement. Proponents may also submit responsive prehearing statements when there are multiple proposals attached to the notice.

Each prehearing and rebuttal statement must be provided as a separate PDF document from any accompanying written testimony or exhibits.

Following the rebuttal statement due date, no other written materials will be accepted from parties except for good cause shown.

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 will not be permitted unless authorized by the commission.

PREHEARING CONFERENCE:

Attendance at the prehearing conference is mandatory for all persons requesting party status. Parties needing to participate by telephone are encouraged to notify the commission office prior to the prehearing conference. Remote participants can call 1-857-216-6700 and enter the conference code 425132.

Following the cut-off date for motions, no motions will be accepted, except for good cause shown.

PUBLIC PARTICIPATION ENCOURAGED:

The commission encourages input from non-parties, either orally at the hearing or in writing prior to the hearing. Written submissions should be emailed to <u>cdphe.wqcc@state.co.us</u> by November 29, 2017.

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.

Dated this 8th day of August, 2017 at Denver, Colorado.

WATER QUALITY CONTROL COMMISSION

Trisha Oeth, Administrator

EXHIBIT 1 WATER QUALITY CONTROL DIVISION

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

WATER QUALITY CONTROL COMMISSION

5 CCR 1002-32

REGULATION NO. 32 CLASSIFICATIONS AND NUMERIC STANDARDS FOR <u>ARKANSAS RIVER BASIN</u>

. . . .

32.60 <u>STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER</u> <u>11, 2017 RULEMAKING; FINAL ACTION JANUARY 8, 2018; EFFECTIVE DATE JUNE 30,</u> <u>2018</u>

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

BASIS AND PURPOSE

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the commission reviewed the status of temporary modifications scheduled to expire before December 31, 2019 to determine whether the temporary modification should be modified, eliminated, or extended.

No action: The commission took no action on the temporary modifications on the following segments:

Upper Arkansas Segment 8b: temporary modifications of the temperature, cadmium, and zinc standards. The commission took no action on the temporary modification of the temperature standard. This temporary modification was deleted from the table because it expires 12/31/2017. For the temporary modifications of the cadmium and zinc standards (expire 12/31/2018), the commission took no action. Resurrection Mining Company presented evidence that they are making progress on the plan for eliminating the need for the temporary modifications. The commission made no change to the expiration date as the original time allotment was deemed adequate to resolve the uncertainty.

Middle Arkansas Segment 4b: temporary modifications of the ammonia, arsenic, boron, cadmium, chlorine, chlorophyll a, chromium III, chromium VI, copper, cyanide, D.O., E. coli, iron, lead, manganese, mercury, molybdenum, nickel, nitrate, nitrite, pH, phosphorus, selenium, silver, sulfide, and zinc standards (expire 12/31/2018). EVRAZ presented evidence that they are making progress on the plan for eliminating the need for the temporary modifications. The commission made no change to the expiration date as the original time allotment was deemed adequate to resolve the uncertainty.

Middle Arkansas Segment 6b: temporary modification of the temperature standard (expires 12/31/2018). Public Service Company of Colorado presented evidence that they are making

progress on the plan for eliminating the need for the temporary modifications. The commission made no change to the expiration date as the original time allotment was deemed adequate to resolve the uncertainty.

Lower Arkansas Segment 1a: temporary modifications of the selenium and sulfate standards (expire 12/31/2018). The City of Pueblo is making progress on its plans to seek a discharger specific variance (DSV). The commission made no change to the expiration date as the original time allotment was deemed adequate to resolve the uncertainty.

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

WATER QUALITY CONTROL COMMISSION

5 CCR 1002-32

REGULATION NO. 32 CLASSIFICATIONS AND NUMERIC STANDARDS FOR <u>ARKANSAS RIVER BASIN</u>

APPENDIX 32-1 Stream Classifications and Water Quality Standards Tables

Effective 06/30/2017 06/30/2018

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Upper Arkansas River Basin

COARUA08B	Classifications		Physical and	Biological			Metals (ug/L)	
Designation	Agriculture			DM	MWAT		acute	chronic
UP	Aq Life Cold 2		Temperature °C	CS-II	CS-II	Aluminum		
	Recreation E			acute	chronic	Arsenic	340	100(T)
Qualifiers:			D.O. (mg/L)		6.0	Beryllium		
Other:			D.O. (spawning)		7.0	Cadmium	SSE*	TVS
Femporary Mo	odification(s):		рН	6.5 - 9.0		Chromium III	TVS	TVS
Cadmium(chro			chlorophyll a (mg/m2)		150	Chromium III		100(T)
Zinc(acute) = 7	754		E. Coli (per 100 mL)		126	Chromium VI	TVS	TVS
Zinc(chronic) =	= 505					Copper	TVS	TVS
Expiration Date	e of 12/31/2018		Inorgan	ic (mg/L)		Iron		1000(T)
emperature(D	M) = No acute standard	11/1 - 3/31		acute	chronic	Lead	TVS	TVS
emperature(M	WAT) = 14	11/1 - 3/31	Ammonia	TVS	TVS	Manganese	TVS	TVS
Expiration Date	e of 12/31/2017		Boron		0.75	Mercury		0.01(t)
	ite) = (1.136672-		Chloride			Molybdenum		160(T)
In(hardness)*(3.5146)	0.041838]*e^(0.9789*ln(har	dness)-	Chlorine	0.019	0.011	Nickel	TVS	TVS
,			Cyanide			Selenium	TVS	TVS
			Nitrate	100		Silver	TVS	TVS(tr)
			Nitrite		0.05	Uranium		
			Phosphorus		0.11	Zinc	TVS	TVS
			Sulfate					
			Sulfide		0.002			

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Middle Arkansas River Basin

		eck Creek from their sources to the co	nfluence with the A	kansas Rive	er.		
COARMA04B	Classifications	Physical and	Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Aluminum		
	Recreation E		acute	chronic	Arsenic	340	7.6(T)
Qualifiers:		D.O. (mg/L)		5.0	Beryllium		
Other:		pН	6.5 - 9.0		Cadmium	TVS	TVS
Temporary Mo	odification(s):	chlorophyll a (mg/m2)		150	Chromium III	TVS	TVS
	h) = current conditions	E. Coli (per 100 mL)		126	Chromium III		100(T)
	= current conditions	Inorgan	ic (mg/L)		Chromium VI	TVS	TVS
. ,) = current conditions		acute	chronic	Copper	TVS	TVS
Cadmium(ac/c	h) = current conditions	Ammonia	TVS	TVS	Iron		1000(T)
Chlorine(ac/ch) = current conditions	Boron		0.75	Lead	TVS	TVS
chlorophyll a (i current condition	mg/m2)(chronic) =	Chloride			Manganese	TVS	TVS
	ons chronic) = current	Chlorine	0.019	0.011	Mercury		0.01(t)
conditions	ac/ch) = current	Cyanide	0.005		Molybdenum		160(T)
conditions		Nitrate	100		Nickel	TVS	TVS
Chromium VI(a conditions	ac/ch) = current	Nitrite		0.05	Selenium	TVS	TVS
	= current conditions	Phosphorus		0.17	Silver	TVS	TVS
Cyanide(acute) = current conditions	Sulfate			Uranium		
conditions	nronic) = current 0 mL)(chronic) = current	Sulfide		0.002	Zinc	TVS	TVS
Iron(chronic) =	current conditions						
Lead(ac/ch) =	current conditions						
Manganese(ad	c/ch) = current conditions						
	ic) = current conditions chronic) = current						
Nickel(ac/ch) =	current conditions						
Nitrate(acute)	= current conditions						
Nitrite(chronic)	= current conditions						
• • •	rrent conditions nronic) = current						
	h) = current conditions						
Silver(ac/ch) =	current conditions						
Sulfide(chronic	c) = current conditions						
Zinc(ac/ch) = c	current conditions						
Expiration Date	e of 12/31/2018						

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Middle Arkansas River Basin

6b. Mainstem	of the Saint Charles River from the co	onfluence with Edson Arroyo to the	confluence with th	e Arkansas	River.		
OARMA06B	Classifications	Physical and E	Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Aluminum		
	Recreation E		acute	chronic	Arsenic	340	0.02-10(T) ^A
	Water Supply	D.O. (mg/L)		5.0	Beryllium		
Qualifiers:		pН	6.5 - 9.0		Cadmium	TVS	TVS
Other:		chlorophyll a (mg/m2)			Chromium III	50(T)	TVS
Temporary M	odification(s):	E. Coli (per 100 mL)		126	Chromium VI	TVS	TVS
temperature(D	DM/MWAT) = "current	Inorganic	c (mg/L)		Copper	TVS	TVS
conditions"	te of 12/31/2018		acute	chronic	Iron		WS
		Ammonia	TVS	TVS	Iron		1000(T)
*Selenium(acu location at 32.	ute) = See selenium assessment 6(4).	Boron		0.75	Lead	TVS	TVS
*Selenium(chr	ronic) = See selenium assessment	Chloride		250	Manganese	TVS	TVS
location at 32.	6(4).	Chlorine		0.011	Manganese		WS
		Cyanide	0.005		Mercury		0.01(t)
		Nitrate	10		Molybdenum		160(T)
		Nitrite		0.05	Nickel	TVS	TVS
		Phosphorus			Selenium	173*	50*
		Sulfate		WS	Silver	TVS	TVS
		Sulfide		0.002	Uranium		
					Zinc	TVS	TVS

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Lower Arkansas River Basin

COARLA01A	Classifications	Physic	al and Biologi	cal			Metals (ug/L)	
Designation	Agriculture			DM	MWAT		acute	chronic
UP	Aq Life Warm 2	Temperature °C	1/1 - 11/30	WS-II	WS-II	Aluminum		
	Recreation E	Temperature °C	12/1 - 12/31	21.5	20.7	Arsenic	340	0.02-10(T) ^A
	Water Supply					Beryllium		
Qualifiers:				acute	chronic	Cadmium	TVS	TVS
Other:		D.O. (mg/L)			5.0	Chromium III	50(T)	TVS
Temporary M	odification(s):	рН		6.5 - 9.0		Chromium VI	TVS	TVS
	ch) = existing quality	chlorophyll a (mg/m2)				Copper	TVS	TVS
Sulfate(chroni	c) = existing quality	E. Coli (per 100 mL)			126	Iron		WS
Expiration Dat	e of 12/31/2018	li	Inorganic (mg/L)					2800(T)
				acute	chronic	Lead	TVS	TVS
		Ammonia		TVS	TVS	Manganese	TVS	TVS
		Boron			0.75	Manganese		WS
		Chloride			250	Mercury		0.01(t)
		Chlorine		0.019	0.011	Molybdenum		160(T)
		Cyanide		0.005		Nickel	TVS	TVS
		Nitrate		10		Selenium	19.1	14.1
		Nitrite			0.5	Silver	TVS	TVS
		Phosphorus				Uranium		
		Sulfate			329	Zinc	TVS	TVS
		Sulfide			0.002			

EXHIBIT 2 WATER QUALITY CONTROL DIVISION

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

WATER QUALITY CONTROL COMMISSION

5 CCR 1002-33

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

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33.60 <u>STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER</u> <u>11, 2017 RULEMAKING; FINAL ACTION JANUARY 8, 2018; EFFECTIVE DATE JUNE 30,</u> <u>2018</u>

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

BASIS AND PURPOSE

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the commission reviewed the status of temporary modifications scheduled to expire before December 31, 2019 to determine whether the temporary modification should be modified, eliminated, or extended.

No action: The commission took no action on the temporary modifications on the following segments:

Blue River Segment 14: temporary modification of the molybdenum standard (expires 12/31/2017). The commission took no action on this temporary modification.

Yampa River Segments 13b, 13d, 13e, 13g, 13i: temporary modifications of the selenium (13b, 13d, 13e, 13g, 13i) and iron (13d, 13i) standards (expire 12/31/2018). Seneca-Peabody presented evidence that it is making progress on the plan for eliminating the need for the temporary modifications. The commission made no change to the expiration date of the temporary modifications on these segments as the original time allotment was deemed adequate to resolve the uncertainty.

New temporary modifications of the arsenic standard:

Consistent with the actions taken in 2013, the commission adopted a temporary modification of the arsenic standard on segments on the following list, with an expiration date of 12/31/2021. At the April 8, 2013 rulemaking, the commission heard testimony that concurred with the finding from a December 13, 2011 rulemaking hearing that an initial reasonable lower limit of treatment technology for arsenic is $3.0 \ \mu g/L$, pending further investigation by the division, dischargers and stakeholders. The temporary modification was established by the commission to allow for a

temporarily less stringent application of the chronic arsenic standard in control requirements for both existing discharges and new or increased discharges.

Upper Colorado Segment 2 Blue River Segment 2a Roaring Fork Segment 12 Yampa River Segment 2a

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

WATER QUALITY CONTROL COMMISSION

5 CCR 1002-33

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

APPENDIX 33-1 Stream Classifications and Water Quality Standards Tables

Effective 06/30/20172018

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Upper Colorado River Basin

COUCUC02	Classifications	Physical and	Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum		
	Recreation E		acute	chronic	Arsenic	340	0.02(T)
	Water Supply	D.O. (mg/L)		6.0	Beryllium		
Qualifiers:		D.O. (spawning)		7.0	Cadmium	TVS(tr)	TVS
Other:		pH	6.5 - 9.0		Chromium III	50(T)	TVS
emporary M	odification(s):	chlorophyll a (mg/m2)		150	Chromium VI	TVS	TVS
rsenic(chron	ic) = hybrid	E. Coli (per 100 mL)		126	Copper	TVS	TVS
Expiration Dat	e of 12/31/2021				Iron		WS
		Inorgan	ic (mg/L)		Iron		1000(T)
			acute	chronic	Lead	TVS	TVS
		Ammonia	TVS	TVS	Manganese	TVS	TVS
		Boron		0.75	Manganese		WS
		Chloride		250	Mercury		0.01(t)
		Chlorine	0.019	0.011	Molybdenum		160(T)
		Cyanide	0.005		Nickel	TVS	TVS
		Nitrate	10		Selenium	TVS	TVS
		Nitrite		0.05	Silver	TVS	TVS(tr)
		Phosphorus		0.11	Uranium		
		Sulfate		WS	Zinc	TVS	TVS
		Sulfide		0.002	Zinc		TVS(sc)

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Blue River Basin

2a. Mainstem							
COUCBL02A	Classifications	Physical and	Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
JP	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum		
	Recreation E		acute	chronic	Arsenic	340	0.02(T)
	Water Supply	D.O. (mg/L)		6.0	Beryllium		
Qualifiers:		D.O. (spawning)		7.0	Cadmium	4	4
Other:		рН	6.5 - 9.0		Chromium III	50(T)	TVS
Cemporary M	odification(s):	chlorophyll a (mg/m2)		150*	Chromium VI	TVS	TVS
Arsenic(chron	<u>ic) = hybrid</u>	E. Coli (per 100 mL)		126	Copper	TVS	TVS
Expiration Dat	te of 12/31/2021				Iron		WS
chlorophyll a	(mg/m2)(chronic) = applies only above	Inorgan	ic (mg/L)		Iron		1000(T)
he facilities lis	sted at 33.5(4).		acute	chronic	Lead	TVS	TVS
Phosphorus(acilities listed	chronic) = applies only above the at 33.5(4).	Ammonia	TVS	TVS	Manganese	TVS	TVS
	e^(1.25 (ln(hard)+0.799))	Boron		0.75	Manganese		WS
Zinc(chronic)	= e^(1.25 (ln(hard)+0.799))	Chloride		250	Mercury		0.01(t)
		Chlorine	0.019	0.011	Molybdenum		160(T)
		Cyanide	0.005		Nickel	TVS	TVS
		Nitrate	10		Selenium	TVS	TVS
		Nitrite		0.05	Silver	TVS	TVS(tr)
		Phosphorus		0.11*	Uranium		
		Sulfate		WS	Zinc	SSE*	SSE*
	of Tenmile Creek, including all tributar	Sulfide		0.002		k to Dillon Reservoir, ex	ccept for the
pecific listing	of Tenmile Creek, including all tributar in Segment 16. Classifications	Sulfide	 mediately above the	0.002		k to Dillon Reservoir, e> Metals (ug/L)	cept for the
pecific listing	in Segment 16.	Sulfide	 mediately above the	0.002			chronic
pecific listing	in Segment 16. Classifications	Sulfide	 mediately above the Biological	0.002 e confluence		Metals (ug/L)	chronic
pecific listing COUCBL14 Designation	in Segment 16. Classifications Agriculture	Sulfide ies and wetlands from a point im Physical and	 mediately above the Biological DM	0.002 e confluence MWAT	with West Tenmile Cree	Metals (ug/L) acute	chronic
pecific listing	in Segment 16. Classifications Agriculture Aq Life Cold 1	Sulfide ies and wetlands from a point im Physical and	mediately above the Biological DM CS-I	0.002 e confluence MWAT CS-I	with West Tenmile Cree	Metals (ug/L) acute 	chronic 0.02(T)
pecific listing COUCBL14 Designation Reviewable	in Segment 16. Classifications Agriculture Aq Life Cold 1 Recreation E	Sulfide ies and wetlands from a point im Physical and Temperature °C	mediately above the Biological DM CS-I acute	0.002 e confluence MWAT CS-I chronic	with West Tenmile Cree Aluminum Arsenic	Metals (ug/L) acute 340	chronic 0.02(T)
specific listing COUCBL14 Designation Reviewable Qualifiers:	in Segment 16. Classifications Agriculture Aq Life Cold 1 Recreation E	Sulfide ies and wetlands from a point im Physical and Temperature °C D.O. (mg/L)	mediately above the Biological DM CS-I acute 	0.002 e confluence MWAT CS-I chronic 6.0	with West Tenmile Cree Aluminum Arsenic Beryllium	Metals (ug/L) acute 340 	chronic 0.02(T) TVS
Specific listing COUCBL14 Designation Reviewable Qualifiers: Dther:	in Segment 16. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply	Sulfide ies and wetlands from a point im Physical and Temperature °C D.O. (mg/L) D.O. (spawning)	mediately above the Biological DM CS-I acute 	0.002 e confluence MWAT CS-I chronic 6.0 7.0	with West Tenmile Cree Aluminum Arsenic Beryllium Cadmium	Metals (ug/L) acute 340 TVS(tr)	chronic 0.02(T) TVS TVS
specific listing COUCBL14 Designation Reviewable Qualifiers: Dther: Femporary M	in Segment 16. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s):	Sulfide ies and wetlands from a point im Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH	mediately above the Biological DM CS-I acute 6.5 - 9.0	0.002 e confluence MWAT CS-I chronic 6.0 7.0 	with West Tenmile Cree Aluminum Arsenic Beryllium Cadmium Chromium III	Metals (ug/L) acute 340 TVS(tr) 50(T)	-
pecific listing COUCBL14 Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron	in Segment 16. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply odification(s):	Sulfide ies and wetlands from a point im Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2)	 mediately above the Biological DM CS-I acute 6.5 - 9.0 	0.002 e confluence MWAT CS-1 chronic 6.0 7.0 150*	with West Tenmile Cree Aluminum Arsenic Beryllium Cadmium Chromium III Chromium VI	Metals (ug/L) acute 340 TVS(tr) 50(T) TVS	chronic 0.02(T) TVS TVS TVS
specific listing COUCBL14 Designation Reviewable Qualifiers: Dther: Temporary M Arsenic(chron Expiration Dat Molybdenum(in Segment 16. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Iodification(s): ic) = hybrid	Sulfide ies and wetlands from a point im Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL)	 mediately above the Biological DM CS-I acute 6.5 - 9.0 	0.002 e confluence MWAT CS-1 chronic 6.0 7.0 150*	with West Tenmile Cree Aluminum Arsenic Beryllium Cadmium Chromium III Chromium VI Copper	Metals (ug/L) acute 340 TVS(tr) 50(T) TVS TVS TVS	chronic 0.02(T) TVS TVS TVS TVS
pecific listing COUCBL14 Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat Molybdenum(ronditions	in Segment 16. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Iodification(s): ic) = hybrid te of 12/31/2021 chronic) = current	Sulfide ies and wetlands from a point im Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL)	mediately above the Biological DM CS-1 acute 6.5 - 9.0 	0.002 e confluence MWAT CS-1 chronic 6.0 7.0 150*	with West Tenmile Cree Aluminum Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron	Metals (ug/L) acute 340 TVS(tr) 50(T) TVS TVS TVS	chronic 0.02(T) TVS TVS TVS TVS TVS S
pecific listing COUCBL14 Designation Reviewable Qualifiers: Other: Temporary M Ausenic(chron Expiration Dat Molybdenum(- onditions Expiration Dat	in Segment 16. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Iodification(s): ic) = hybrid te of 12/31/2021 chronic) = current te of 12/31/2017	Sulfide ies and wetlands from a point im Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgan Ammonia	 Biological DM CS-I acute 6.5 - 9.0 6.5 - 9.0 	0.002 e confluence MWAT CS-I chronic 6.0 7.0 150* 126	with West Tenmile Cree Aluminum Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron	Metals (ug/L) acute 340 TVS(tr) 50(T) TVS TVS TVS	chronic 0.02(T) TVS TVS TVS TVS S VS WS 1000(T)
pecific listing COUCBL14 Designation Reviewable Qualifiers: Dther: Temporary M Arsenic(chron Expiration Dat Molybdenum(conditions Expiration Dat chlorophyll a ne facilities list	in Segment 16. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply Iodification(s): ic) = hybrid te of 12/31/2021 chronic) = current te of 12/31/2017 (mg/m2)(chronic) = applies only above sted at 33.5(4).	Sulfide ies and wetlands from a point im Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgan Ammonia	 mediately above the Biological DM CS-I acute 6.5 - 9.0 6.5 - 9.0 ic (mg/L) acute	0.002 e confluence MWAT CS-I chronic 6.0 7.0 150* 126 chronic	with West Tenmile Cree Aluminum Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron Lead	Metals (ug/L) acute 340 TVS(tr) 50(T) TVS	chronic 0.02(T) TVS TVS TVS TVS S S S S S S S S S S S S
pecific listing COUCBL14 Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat Molybdenum(i conditions Expiration Dat chlorophyll a ne facilities lis Phosphorus(i	in Segment 16. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply lodification(s): ic) = hybrid te of 12/31/2021 chronic) = current te of 12/31/2017 (mg/m2)(chronic) = applies only above sted at 33.5(4). chronic) = applies only above the	Sulfide ies and wetlands from a point im Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgan Ammonia	 mediately above the Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS	0.002 e confluence CS-I CS-I 6.0 7.0 150* 126	with West Tenmile Cree Aluminum Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Manganese	Metals (ug/L) acute acute </td <td>Chronic 0.02(T) TVS TVS TVS TVS (1000(T) TVS TVS TVS (1000(T) TVS (1000(T) (1) TVS (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)</td>	Chronic 0.02(T) TVS TVS TVS TVS (1000(T) TVS TVS TVS (1000(T) TVS (1000(T) (1) TVS (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
pecific listing COUCBL14 Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat Molybdenum(i conditions Expiration Dat chlorophyll a ne facilities lis Phosphorus(i	in Segment 16. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply lodification(s): ic) = hybrid te of 12/31/2021 chronic) = current te of 12/31/2017 (mg/m2)(chronic) = applies only above sted at 33.5(4). chronic) = applies only above the	Sulfide ies and wetlands from a point im Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgan Ammonia Boron	 Biological DM CS-1 acute 6.5 - 9.0 c ic (mg/L) TVS 	0.002 e confluence CS-I Chronic 6.0 7.0 150* 126 126	with West Tenmile Cree Aluminum Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Manganese Manganese	Metals (ug/L) acute 340 TVS(tr) 50(T) TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS	chronic 0.02(T) TVS TVS TVS TVS 1000(T) TVS 1000(T)
pecific listing COUCBL14 Designation Reviewable Qualifiers: Dther: Temporary M Arsenic(chron Expiration Dat Molybdenum(i conditions Expiration Dat chlorophyll a ne facilities lis Phosphorus(i	in Segment 16. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply lodification(s): ic) = hybrid te of 12/31/2021 chronic) = current te of 12/31/2017 (mg/m2)(chronic) = applies only above sted at 33.5(4). chronic) = applies only above the	Sulfide ies and wetlands from a point im Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgan Ammonia Boron Chloride	Biological DM CS-I acute CS-I acute CS-I acute CS-I acute CS-I CS-I CS-I CS-I CS-I CS-I CS-I CS-I	0.002 e confluence CS-I Chronic 6.0 7.0 7.0 150* 126 Chronic TVS 0.75 250	with West Tenmile Cree Aluminum Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Manganese Manganese Mercury	Metals (ug/L) acute 340 TVS(tr) 50(T) TVS TVS TVS TVS TVS TVS TVS TVS TVS	chronic 0.02(T) TVS TVS TVS TVS 1000(T) TVS 1000(T) TVS SVS 0.01(t)
pecific listing COUCBL14 Designation Reviewable Qualifiers: Dther: Temporary M Arsenic(chron Expiration Dat Molybdenum(i conditions Expiration Dat chlorophyll a ne facilities lis Phosphorus(i	in Segment 16. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply lodification(s): ic) = hybrid te of 12/31/2021 chronic) = current te of 12/31/2017 (mg/m2)(chronic) = applies only above sted at 33.5(4). chronic) = applies only above the	Sulfide ies and wetlands from a point im Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine	Biological DM CS-I acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019	0.002 e confluence MWAT CS-I chronic 6.0 7.0 150* 126 126 Chronic TVS 0.75 250 0.011	with West Tenmile Cree Aluminum Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Manganese Manganese Mercury Molybdenum	Metals (ug/L) acute 340 340 50(T) 50(T) TVS(tr) 10 TVS 10 TVS 11 12 12 13 14 15 15 15 15 15 15 16 17 16 17 17 17 18 19 10 10 11 12 13 14 15 16 16 17 18 19 10 10 11 12 13 14 15 16 16	Chronic 0.02(T) TVS TVS TVS TVS 1000(T) TVS TVS S S S S S S S S S S S S S S S S
pecific listing COUCBL14 Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chron Expiration Dat Molybdenum(i conditions Expiration Dat chlorophyll a he facilities lis Phosphorus(i	in Segment 16. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply lodification(s): ic) = hybrid te of 12/31/2021 chronic) = current te of 12/31/2017 (mg/m2)(chronic) = applies only above sted at 33.5(4). chronic) = applies only above the	Sulfide ies and wetlands from a point im Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide	Biological DM CS-I acute CS-I acute CS-I acute CS-I acute CS-	0.002 e confluence CS-I Chronic 6.0 7.0 150* 126 126 126 250 0.011 	with West Tenmile Cree Aluminum Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Manganese Manganese Manganese Mercury Molybdenum	Metals (ug/L) acute all	Chronic 0.02(T) TVS TVS TVS TVS 1000(T) TVS 1000(T) TVS 0.01(t) 210(T) TVS
specific listing COUCBL14 Designation Reviewable Qualifiers: Dther: Temporary M Arsenic(chron Expiration Dat Molybdenum(in conditions Expiration Dat chlorophyll a he facilities lis Phosphorus(in	in Segment 16. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply lodification(s): ic) = hybrid te of 12/31/2021 chronic) = current te of 12/31/2017 (mg/m2)(chronic) = applies only above sted at 33.5(4). chronic) = applies only above the	Sulfide ies and wetlands from a point im Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate	Biological DM CS-I CS-I acute 6.5 - 9.0 6.5 - 9.0 ic (mg/L) ic (mg/L) CS 0.019 0.005 10	0.002 e confluence CS-I Chronic 6.0 7.0 150* 126 126 0.75 250 0.011 250 0.011	with West Tenmile Cree Aluminum Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Manganese Manganese Mercury Molybdenum Nickel Selenium	Metals (ug/L) acute acute </td <td>Chronic 0.02(T) TVS TVS TVS 1000(T) TVS 1000(T) TVS 0.01(t) 210(T) TVS TVS TVS TVS</td>	Chronic 0.02(T) TVS TVS TVS 1000(T) TVS 1000(T) TVS 0.01(t) 210(T) TVS TVS TVS TVS
specific listing COUCBL14 Designation Reviewable Qualifiers: Dther: Femporary M Arsenic(chron Expiration Dat Molybdenum(conditions Expiration Dat chlorophyll a he facilities lis	in Segment 16. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply lodification(s): ic) = hybrid te of 12/31/2021 chronic) = current te of 12/31/2017 (mg/m2)(chronic) = applies only above sted at 33.5(4). chronic) = applies only above the	Sulfide ies and wetlands from a point im Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	Biological DM CS-I CS-I CS-I CS-I CCS-I CSIN CSIN CSIN CSIN CSIN CSIN CSIN CSI	0.002 e confluence CS-I CS-I Chronic 6.0 7.0 7.0 150* 126 Chronic TVS 0.75 250 0.011 1 0.05	with West Tenmile Cree Aluminum Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Manganese Manganese Mercury Molybdenum Nickel Selenium Silver	Metals (ug/L) acute acute 340 340 TVS(tr) 50(T) TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS	chronic 0.02(T) TVS TVS TVS 1000(T) TVS 1000(T) TVS VS 0.01(t) 210(T)

tr = trout

sc = sculpin

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Roaring Fork River Basin

COUCRF12	Classifications	Physic	cal and Biolog	jical			Metals (ug/L)	
Designation	Agriculture			DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	4/1 - 12/31	CLL*	20.3* ^B	Aluminum		
	Recreation E	Temperature °C		CL,CLL	CL,CLL	Arsenic	340	0.02(T)
	Water Supply					Beryllium		
	DUWS*			acute	chronic	Cadmium	TVS(tr)	TVS
Qualifiers:		D.O. (mg/L)			6.0	Chromium III	50(T)	TVS
Other:		D.O. (spawning)			7.0	Chromium VI	TVS	TVS
Temporary M	odification(s):	рН		6.5 - 9.0		Copper	TVS	TVS
Arsenic(chron	<u>ic) = hybrid</u>	chlorophyll a (ug/L)			8*	Iron		WS
Expiration Dat	<u>e of 12/31/2021</u>	E. Coli (per 100 mL)			126	Iron		1000(T)
chlorophvll a	(ug/L)(chronic) = applies only to lakes					Lead	TVS	TVS
and reservoirs	larger than 25 acres surface area.	-	norganic (mg	/L)		Manganese	TVS	TVS
Res and Wildo				acute	chronic	Manganese		WS
	chronic) = applies only to lakes and er than 25 acres surface area.	Ammonia		TVS	TVS	Mercury		0.01(t)
	(4/1 - 12/31) = Ruedi Res (MWAT=20.3)	Boron			0.75	Molybdenum		160(T)
		Chloride			250	Nickel	TVS	TVS
		Chlorine		0.019	0.011	Selenium	TVS	TVS
		Cyanide		0.005		Silver	TVS	TVS(tr)
		Nitrate		10		Uranium		
		Nitrite			0.05	Zinc	TVS	TVS
		Phosphorus			0.025*			
		Sulfate			WS			
		Sulfide			0.002]		

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Yampa River Basin

COLICYA02A	Classifications	Physical and	Biological			Metals (ug/L)	
	Agriculture	Physical and	DM	MWAT		,	chronic
Designation Reviewable	Agriculture Aq Life Cold 1	Tama anatum 00			A la	acute	cnronic
Reviewable	Recreation E	Temperature °C	CS-I acute	CS-I chronic	Aluminum		 0.00(T)
	Water Supply	D.O. (mg/L)			Arsenic	340	0.02(T)
Qualifiers:		D.O. (hg/L) D.O. (spawning)		6.0 7.0	Beryllium Cadmium	 TVS(tr)	 TVS
		pH	6.5 - 9.0				
Other:	adification (a);		0.5 - 9.0	150*	Chromium III	50(T) TVS	TVS TVS
Temporary Me Arsenic(chroni		chlorophyll a (mg/m2) E. Coli (per 100 mL)		126	Chromium VI	TVS	TVS
	e of 12/31/2021			120	Copper Iron		WS
			- (//)		Iron		
	(mg/m2)(chronic) = applies only above sted at 33.5(4).	Inorgani			Lead	TVS	1000(T) TVS
*Phosphorus(d	chronic) = applies only above the facilities	A	acute	chronic		TVS	TVS
isted at 33.5(4	4).	Ammonia	TVS	TVS	Manganese		WS
		Boron		0.75	Manganese		
		Chloride		250	Mercury		0.01(t)
		Chlorine	0.019	0.011	Molybdenum Nickel	 TVS	160(T) TVS
		Cyanide	0.005		Selenium	TVS	TVS
		Nitrate	10		Selenium		
		Nitrite		0.05		TVS	TVS(tr)
		Phosphorus		0.11*	Uranium		
		Sulfate Sulfide		WS 0.002	Zinc Zinc	TVS	TVS TVS(sc)
	n of Foidel Creek, including all tributaries a for specific listings in Segment 13g. Middl						nce with Tro
Creek, except			County Road 27				nce with Tro
Creek, except	for specific listings in Segment 13g. Middl	e Creek and all tributaries, from	County Road 27			with Trout Creek.	
Creek, except COUCYA13B Designation	for specific listings in Segment 13g. Middl Classifications	e Creek and all tributaries, from	County Road 27 Biological	downstream		with Trout Creek. Metals (ug/L)	chronic
Creek, except COUCYA13B Designation	for specific listings in Segment 13g. Middl Classifications Agriculture	e Creek and all tributaries, from Physical and	County Road 27 Biological DM	downstream MWAT	to the confluence	with Trout Creek. Metals (ug/L) acute	chronie
Creek, except COUCYA13B Designation Reviewable	for specific listings in Segment 13g. Middl Classifications Agriculture Aq Life Warm 1	e Creek and all tributaries, from Physical and	n County Road 27 Biological DM WS-II	downstream MWAT WS-II	Aluminum	with Trout Creek. Metals (ug/L) acute 	chronic 7.6(T)
Creek, except COUCYA13B Designation Reviewable Qualifiers:	for specific listings in Segment 13g. Middl Classifications Agriculture Aq Life Warm 1	e Creek and all tributaries, from Physical and Temperature °C	n County Road 27 Biological DM WS-II acute	MWAT WS-II chronic	Aluminum	with Trout Creek. Metals (ug/L) acute 340	chroni 7.6(T)
Creek, except COUCYA13B Designation Reviewable Qualifiers: Other:	for specific listings in Segment 13g. Middl Classifications Agriculture Aq Life Warm 1 Recreation E	e Creek and all tributaries, from Physical and Temperature °C D.O. (mg/L)	n County Road 27 Biological DM WS-II acute 	MWAT WS-II chronic 6.0	Aluminum Arsenic Beryllium	with Trout Creek. Metals (ug/L) acute 340 	chronic 7.6(T) TVS
Creek, except COUCYA13B Designation Reviewable Qualifiers: Other: Temporary Mo	for specific listings in Segment 13g. Middl Classifications Agriculture Aq Life Warm 1 Recreation E	e Creek and all tributaries, from Physical and Temperature °C D.O. (mg/L) D.O. (spawning)	n County Road 27 Biological DM WS-II acute 	MWAT WS-II chronic 6.0 7.0	Aluminum Arsenic Beryllium Cadmium	with Trout Creek. Metals (ug/L) acute 340 TVS(tr)	chronic 7.6(T) TVS TVS
Creek, except COUCYA13B Designation Reviewable Qualifiers: Other: Temporary Me Selenium(chro	for specific listings in Segment 13g. Middl Classifications Agriculture Aq Life Warm 1 Recreation E	e Creek and all tributaries, from Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH	a County Road 27 Biological DM WS-II acute 6.5 - 9.0	MWAT WS-II chronic 6.0 7.0 	Aluminum Aluminum Arsenic Beryllium Cadmium Chromium III	with Trout Creek. Metals (ug/L) acute 340 TVS(tr)	chronic 7.6(T) TVS TVS 100(T)
Creek, except COUCYA13B Designation Reviewable Qualifiers: Other: Temporary Me Selenium(chroo Expiration Dat	for specific listings in Segment 13g. Middl Classifications Agriculture Aq Life Warm 1 Recreation E odification(s): onic) = current conditions* e of 12/31/2018	e Creek and all tributaries, from Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL)	n County Road 27 Biological DM WS-II acute 6.5 - 9.0 	downstream MWAT WS-II chronic 6.0 7.0 150	Aluminum Arsenic Beryllium Cadmium Chromium III Chromium III	with Trout Creek. Metals (ug/L) acute 340 TVS(tr) TVS	nce with Trou chronic 7.6(T) TVS TVS 100(T) TVS TVS
Creek, except COUCYA13B Designation Reviewable Qualifiers: Other: Temporary Me Selenium(chro Expiration Dat 'Iron(chronic) ocations.	for specific listings in Segment 13g. Middl Classifications Agriculture Aq Life Warm 1 Recreation E odification(s): onic) = current conditions* e of 12/31/2018 = See section 33.6(4) for iron assessment	e Creek and all tributaries, from Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL)	n County Road 27 Biological DM WS-II acute 6.5 - 9.0 	downstream MWAT WS-II chronic 6.0 7.0 150	Aluminum Aluminum Arsenic Beryllium Cadmium Chromium III Chromium III Chromium VI	with Trout Creek. Metals (ug/L) acute 340 TVS(tr) TVS TVS	chronic 7.6(T) TVS TVS 100(T) TVS
Creek, except COUCYA13B Designation Reviewable Qualifiers: Other: Temporary Me Selenium(chro Expiration Dat *Iron(chronic) locations. *Iron(chronic)	for specific listings in Segment 13g. Middl Classifications Agriculture Aq Life Warm 1 Recreation E odification(s): onic) = current conditions* e of 12/31/2018	e Creek and all tributaries, from Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL)	n County Road 27 Biological DM WS-II acute 6.5 - 9.0 	downstream MWAT WS-II chronic 6.0 7.0 150	Aluminum Aluminum Arsenic Beryllium Cadmium Chromium III Chromium III Chromium VI Copper	with Trout Creek. Metals (ug/L) acute 340 TVS(tr) TVS TVS TVS TVS TVS	chronie 7.6(T) TVS TVS 100(T) TVS TVS 1000(T)*
Creek, except COUCYA13B Designation Reviewable Qualifiers: Dther: Temporary Mo Selenium(chro Expiration Dat 'Iron(chronic) ocations. 'Iron(chronic) section 33.6(4)	for specific listings in Segment 13g. Middl Classifications Agriculture Aq Life Warm 1 Recreation E odification(s): onic) = current conditions* e of 12/31/2018 = See section 33.6(4) for iron assessment = 2,090(T) ug/L for Middle Creek. See	e Creek and all tributaries, from Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL)	n County Road 27 Biological WS-II acute 6.5 - 9.0 ic (mg/L)	downstream MWAT WS-II chronic 6.0 7.0 150 126	Aluminum Aluminum Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron	with Trout Creek. Metals (ug/L) acute 340 TVS(tr) TVS TVS TVS TVS TVS TVS TVS	chronia 7.6(T) TVS TVS 100(T) TVS 1000(T)* 2090(T)*
Creek, except COUCYA13B Designation Reviewable Qualifiers: Other: Temporary Mo Selenium(chro Expiration Dat "Iron(chronic) ocations. "Iron(chronic) section 33.6(4)	for specific listings in Segment 13g. Middl Classifications Agriculture Aq Life Warm 1 Recreation E odification(s): onic) = current conditions* e of 12/31/2018 = See section 33.6(4) for iron assessment = 2,090(T) ug/L for Middle Creek. See) for iron assessment locations.	e Creek and all tributaries, from Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgani	a County Road 27 Biological DM WS-II acute 6.5 - 9.0 ic (mg/L) acute	downstream MWAT WS-II chronic 6.0 7.0 7.0 120 126 chronic	Aluminum Aluminum Arsenic Beryllium Cadmium Chromium III Chromium III Chromium VI Copper Iron Iron	With Trout Creek. Metals (ug/L) acute 340 TVS(tr) TVS	Chronic 7.6(T) TVS TVS 100(T) TVS 1000(T)* 2090(T)*
Creek, except COUCYA13B Designation Reviewable Qualifiers: Other: Temporary Mo Selenium(chro Expiration Dat "Iron(chronic) ocations. "Iron(chronic) section 33.6(4)	for specific listings in Segment 13g. Middl Classifications Agriculture Aq Life Warm 1 Recreation E odification(s): onic) = current conditions* e of 12/31/2018 = See section 33.6(4) for iron assessment = 2,090(T) ug/L for Middle Creek. See) for iron assessment locations.	e Creek and all tributaries, from Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgani Ammonia	n County Road 27 Biological DM WS-II acute 6.5 - 9.0 (c (mg/L) acute TVS	downstream WS-II chronic 6.0 7.0 150 126 chronic chronic	to the confluence Aluminum Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron Lead	With Trout Creek. Metals (ug/L) acute acute	chronic 7.6(T) TVS 100(T) TVS 1000(T)* 2090(T)* TVS TVS TVS
Creek, except COUCYA13B Designation Reviewable Qualifiers: Other: Temporary Mo Selenium(chro Expiration Dat "Iron(chronic) ocations. "Iron(chronic) section 33.6(4)	for specific listings in Segment 13g. Middl Classifications Agriculture Aq Life Warm 1 Recreation E odification(s): onic) = current conditions* e of 12/31/2018 = See section 33.6(4) for iron assessment = 2,090(T) ug/L for Middle Creek. See) for iron assessment locations.	e Creek and all tributaries, from Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgani Ammonia Boron	n County Road 27 Biological DM WS-II acute 6.5 - 9.0 (c (mg/L) acute TVS 	downstream MWAT WS-II chronic 6.0 7.0 150 126 126 chronic TVS 0.75	Aluminum Aluminum Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Manganese	With Trout Creek. Metals (ug/L) acute 340 TVS(tr) TVS TVS TVS 310 TVS 310 TVS	chronic 7.6(T) TVS TVS 100(T) TVS TVS
Creek, except COUCYA13B Designation Reviewable Qualifiers: Other: Temporary Mo Selenium(chro Expiration Dat "Iron(chronic) ocations. "Iron(chronic) section 33.6(4)	for specific listings in Segment 13g. Middl Classifications Agriculture Aq Life Warm 1 Recreation E odification(s): onic) = current conditions* e of 12/31/2018 = See section 33.6(4) for iron assessment = 2,090(T) ug/L for Middle Creek. See) for iron assessment locations.	e Creek and all tributaries, from Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgani Ammonia Boron Chloride	n County Road 27 Biological DM WS-II acute 6.5 - 9.0 ic (mg/L) acute TVS 	downstream MWAT WS-II chronic 6.0 7.0 150 126 126 chronic TVS 0.75 	Aluminum Aluminum Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Manganese Mercury	With Trout Creek. Metals (ug/L) acute 340 TVS(tr) TVS	chronic 7.6(T) TVS TVS 100(T) TVS 1000(T)* 2090(T)* 2090(T)* TVS TVS TVS 0.01(t)
Creek, except COUCYA13B Designation Reviewable Qualifiers: Other: Temporary Mo Selenium(chro Expiration Dat *Iron(chronic) locations. *Iron(chronic) section 33.6(4)	for specific listings in Segment 13g. Middl Classifications Agriculture Aq Life Warm 1 Recreation E odification(s): onic) = current conditions* e of 12/31/2018 = See section 33.6(4) for iron assessment = 2,090(T) ug/L for Middle Creek. See) for iron assessment locations.	e Creek and all tributaries, from Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine	a County Road 27 Biological DM WS-II acute 6.5 - 9.0 (c (mg/L) acute TVS 0.019	downstream MWAT WS-II chronic 6.0 7.0 7.0 126 126 Chronic TVS 0.75 0.011	to the confluence Aluminum Arsenic Beryllium Cadmium Chromium III Chromium III Chromium VI Copper Iron Iron Lead Manganese Mercury Molybdenum	With Trout Creek. Metals (ug/L) acute acute	chronic 7.6(T) TVS TVS 100(T) TVS 1000(T)* 2090(T)* 2090(T)* TVS TVS 0.01(t) 160(T)
Creek, except COUCYA13B Designation Reviewable Qualifiers: Other: Temporary Mo Selenium(chro Expiration Dat *Iron(chronic) locations. *Iron(chronic) section 33.6(4)	for specific listings in Segment 13g. Middl Classifications Agriculture Aq Life Warm 1 Recreation E odification(s): onic) = current conditions* e of 12/31/2018 = See section 33.6(4) for iron assessment = 2,090(T) ug/L for Middle Creek. See) for iron assessment locations.	e Creek and all tributaries, from Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide	County Road 27 Biological DM WS-II acute 6.5 - 9.0 (c (mg/L) acute TVS 0.019 0.005	downstream MWAT WS-II chronic 6.0 7.0 150 126 126 Chronic TVS 0.75 0.011 	to the confluence Aluminum Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Manganese Mercury Molybdenum Nickel	With Trout Creek. Metals (ug/L) acute acute	chronic 7.6(T) TVS TVS 100(T) TVS 1000(T)* 2090(T)* TVS TVS 0.01(t) 160(T) TVS
Creek, except COUCYA13B Designation Reviewable Qualifiers: Other: Temporary Mo Selenium(chro Expiration Dat "Iron(chronic) ocations. "Iron(chronic) section 33.6(4)	for specific listings in Segment 13g. Middl Classifications Agriculture Aq Life Warm 1 Recreation E odification(s): onic) = current conditions* e of 12/31/2018 = See section 33.6(4) for iron assessment = 2,090(T) ug/L for Middle Creek. See) for iron assessment locations.	e Creek and all tributaries, from Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide Nitrate	County Road 27 Biological DM WS-II acute 6.5 - 9.0 c (mg/L) acute TVS c 0.019 0.005 100	downstream MWAT WS-II chronic 6.0 7.0 150 126 126 Chronic TVS 0.75 0.011 0.011	to the confluence Aluminum Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Manganese Mercury Molybdenum Nickel Selenium	With Trout Creek. Metals (ug/L) acute acute	Chronie 7.6(T) TVS 100(T) TVS 1000(T)* 2090(T)* 2090(T)* TVS 0.01(t) 160(T) TVS TVS
Creek, except COUCYA13B Designation Reviewable Qualifiers: Other: Temporary Mo Selenium(chro Expiration Dat *Iron(chronic) iocations. *Iron(chronic) section 33.6(4)	for specific listings in Segment 13g. Middl Classifications Agriculture Aq Life Warm 1 Recreation E odification(s): onic) = current conditions* e of 12/31/2018 = See section 33.6(4) for iron assessment = 2,090(T) ug/L for Middle Creek. See) for iron assessment locations.	e Creek and all tributaries, from Physical and Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	County Road 27 Biological DM WS-II acute 6.5 - 9.0 (c (mg/L) acute TVS 0.019 0.005 100	downstream MWAT WS-II chronic 6.0 7.0 7.0 126 126 Chronic TVS 0.75 0.011 0.05	to the confluence Aluminum Arsenic Beryllium Cadmium Chromium III Chromium VI Chromium VI Copper Iron Iron Lead Manganese Mercury Molybdenum Nickel Selenium	With Trout Creek. Metals (ug/L) acute acute 340 TVS(tr) TVS	Chronie 7.6(T) TVS TVS 100(T) TVS 1000(T)* 2090(T)* 2090(T)* TVS TVS 0.01(t) 160(T) TVS TVS

t = total tr = trout sc = sculpin

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Yampa River Basin

ical DM WS-II acute 6.5 - 9.0 (7 VS 7 VS 0.019 0.005 100	MWAT WS-II chronic 5.0 150 126 0.26 chronic TVS 0.75 0.011	Aluminum Arsenic Beryllium Cadmium Chromium III Chromium III Chromium VI Copper Iron Iron	Metals (u 5/1 - 2/29	rg/L) acute 340 TVS TVS TVS TVS	chronic 100(T) TVS TVS 100(T) TVS
WS-II acute 6.5 - 9.0 /L) acute TVS 0.019 0.005	WS-II chronic 5.0 150 126 chronic TVS 0.75 0.011	Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron	5/1 - 2/29	 340 TVS TVS TVS	 100(T) TVS TVS 100(T)
acute 6.5 - 9.0 /L) acute TVS 0.019 0.005	chronic 5.0 150 126 chronic TVS 0.75 0.011	Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron	5/1 - 2/29	TVS TVS TVS	 TVS TVS 100(T)
 6.5 - 9.0 /L) acute T\/S 0.019 0.005	5.0 150 126 chronic TVS 0.75 0.011	Beryllium Cadmium Chromium III Chromium III Chromium VI Copper Iron Iron	5/1 - 2/29	TVS TVS TVS	 TVS TVS 100(T)
6.5 - 9.0 /L) acute TVS 0.019 0.005	 150 126 chronic TVS 0.75 0.011	Cadmium Chromium III Chromium III Chromium VI Copper Iron Iron	5/1 - 2/29	TVS TVS TVS	TVS TVS 100(T)
 /L) acute TVS 0.019 0.005	150 126 chronic TVS 0.75 0.011	Chromium III Chromium III Chromium VI Copper Iron Iron	5/1 - 2/29	TVS TVS	TVS 100(T)
 /L) acute TVS 0.019 0.005	126 chronic TVS 0.75 0.011	Chromium III Chromium VI Copper Iron Iron	5/1 - 2/29	TVS	100(T)
/L) acute TVS 0.019 0.005	chronic TVS 0.75 0.011	Chromium VI Copper Iron Iron	5/1 - 2/29	TVS	
acute TVS 0.019 0.005	TVS 0.75 0.011	Copper Iron Iron	5/1 - 2/29		TVS
TVS 0.019 0.005	TVS 0.75 0.011	Iron	5/1 - 2/29	TVS	
 0.019 0.005	0.75 0.011	Iron	5/1 - 2/29		TVS
 0.019 0.005	 0.011				1110(T)*
0.019 0.005	0.011	Lood	3/1 - 4/30		3040(T)*
0.005		Lead		TVS	TVS
		Manganese		TVS	TVS
100		Mercury			0.01(t)
		Molybdenum			160(T)
	0.05	Nickel		TVS	TVS
	0.17	Selenium		TVS	TVS
		Silver		TVS	TVS
	0.002	Uranium			
		Zinc		TVS	TVS
confluence v	with the Yam	pa River.			
jical			Metals (u	ug/L)	
DM	MWAT			acute	chronic
WS-II	WS-II	Aluminum			
acute	chronic	Arsenic		340	100(T)
	5.0	Beryllium			
6.5 - 9.0		Cadmium		TVS	TVS
		Chromium III		TVS	TVS
	630	Chromium III			100(T)
/L)		Chromium VI		TVS	TVS
acute	chronic	Copper		TVS	TVS
TVS	TVS	Iron			1000(T)*
	0.75	Iron			1250(T)*
		Lead		TVS	TVS
	0.011	Manganese		TVS	TVS
 0.019		Mercury			0.01(t)
		Molybdenum			160(T)
0.019	0.05	Nickel		TVS	TVS
0.019 0.005		Selenium		TVS	TVS
0.019 0.005 100	0.17	Silver		TVS	TVS
0.019 0.005 100 	0.17	Uranium			
0.019 0.005 100 		1		TVS	TVS
0.019 0.005 100 		Zinc			
		0.17	0.17 Selenium Silver 0.002 Uranium	0.17 Selenium Silver 0.002 Uranium	0.17 Selenium TVS Silver TVS 0.002 Uranium

tr = trout

sc = sculpin

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Yampa River Basin

13g. All tributa	Classifications	Physical and I	Biological			Metals (ug/L)	
Designation	Agriculture	,	DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Aluminum		
	Recreation E		acute	chronic	Arsenic	340	7.6(T)
Qualifiers:	1	D.O. (mg/L)		5.0	Beryllium		
Other:		рН	6.5 - 9.0		Cadmium	TVS(tr)	TVS
Temporary Mo	odification(s):	chlorophyll a (mg/m2)		150	Chromium III	TVS	TVS
	onic) = current conditions	E. Coli (per 100 mL)		126	Chromium VI	TVS	TVS
	e of 12/31/2018	Inorgani	c (mg/L)		Copper	TVS	TVS
·			acute	chronic	Iron		1000(T)
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron		0.75	Manganese	TVS	TVS
		Chloride			Mercury		0.01(t)
		Chlorine	0.019	0.011	Molybdenum		160(T)
		Cyanide	0.005		Nickel	TVS	TVS
		Nitrate	100		Selenium	TVS	TVS
		Nitrite		0.05	Silver	TVS	TVS(tr)
		Phosphorus		0.17	Uranium		
		Sulfate			Zinc	TVS	TVS
		Sulfide		0.002			
13i. Mainstem	of Grassy Creek, including all tribu	taries and wetlands, from the source	to immediately ab	ove the conf	luence with Scotchmans	Gulch.	
COUCYA13I	Classifications	Physical and I	Biological			Metals (ug/L)	
	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Aluminum		
	Recreation N		acute	chronic	Arsenic	340	100(T)
Qualifiers:		D.O. (mg/L)			Dis multiplication		
				5.0	Beryllium		
Other:		pН	6.5 - 9.0	5.0 	Cadmium	TVS	TVS
	odification(s):	pH chlorophyll a (mg/m2)	 6.5 - 9.0 		Cadmium Chromium III	TVS TVS	TVS TVS
Temporary Mo	odification(s): = current conditions*	pН			Cadmium Chromium III Chromium VI	TVS TVS TVS	TVS TVS TVS
Temporary Mo Iron(chronic) =		pH chlorophyll a (mg/m2)			Cadmium Chromium III Chromium VI Copper	TVS TVS	TVS TVS TVS TVS
Temporary Me Iron(chronic) = Selenium(chro	- current conditions*	pH chlorophyll a (mg/m2) E. Coli (per 100 mL)			Cadmium Chromium III Chromium VI Copper Iron	TVS TVS TVS TVS 	TVS TVS TVS TVS 1000(T)*
Temporary Mo Iron(chronic) = Selenium(chro Expiration Date *Iron(chronic) :	e current conditions* onic) = current conditions e of 12/31/2018 = See section 33.6(4) for iron	pH chlorophyll a (mg/m2) E. Coli (per 100 mL)	 c (mg/L)	 630	Cadmium Chromium III Chromium VI Copper Iron Lead	TVS TVS TVS TVS TVS	TVS TVS TVS 1000(T)* TVS
Temporary Ma Iron(chronic) = Selenium(chro Expiration Date Iron(chronic) = assessment lo	 current conditions* onic) = current conditions e of 12/31/2018 = See section 33.6(4) for iron varions. 	pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgani Ammonia Boron	 c (mg/L) acute	 630 chronic	Cadmium Chromium III Chromium VI Copper Iron Lead Manganese	TVS TVS TVS TVS 	TVS TVS TVS 1000(T)* TVS TVS
Temporary Ma ron(chronic) = Selenium(chro Expiration Date Iron(chronic) = assessment lo	e current conditions* onic) = current conditions e of 12/31/2018 = See section 33.6(4) for iron	pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgani Ammonia	 c (mg/L) acute TVS	 630 chronic TVS	Cadmium Chromium III Chromium VI Copper Iron Lead Manganese Mercury	TVS TVS TVS TVS TVS	TVS TVS TVS 1000(T)* TVS TVS 0.01(t)
Temporary Ma ron(chronic) = Selenium(chro Expiration Date Iron(chronic) = assessment lo	 current conditions* onic) = current conditions e of 12/31/2018 = See section 33.6(4) for iron varions. 	pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine	 c (mg/L) acute TVS 0.019	 630 chronic TVS	Cadmium Chromium III Chromium VI Copper Iron Lead Manganese Mercury Molybdenum	TVS TVS TVS TVS TVS TVS 	TVS TVS TVS 1000(T)* TVS TVS 0.01(t) 160(T)
Temporary Ma ron(chronic) = Selenium(chro Expiration Date Iron(chronic) = assessment lo	 current conditions* onic) = current conditions e of 12/31/2018 = See section 33.6(4) for iron varions. 	pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide	 c (mg/L) acute TVS 	 630 chronic TVS 0.75 	Cadmium Chromium III Chromium VI Copper Iron Lead Manganese Mercury Molybdenum Nickel	TVS TVS TVS TVS TVS TVS TVS	TVS TVS TVS 1000(T)* TVS TVS 0.01(t) 160(T) TVS
Temporary Ma Iron(chronic) = Selenium(chro Expiration Date *Iron(chronic) = assessment lo	 current conditions* onic) = current conditions e of 12/31/2018 = See section 33.6(4) for iron varions. 	pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine	 c (mg/L) acute TVS 0.019	 630 chronic TVS 0.75 0.011	Cadmium Chromium III Chromium VI Copper Iron Lead Manganese Mercury Molybdenum Nickel Selenium	TVS TVS TVS TVS TVS TVS TVS TVS TVS	TVS TVS TVS 1000(T)* TVS TVS 0.01(t) 160(T) TVS TVS
Temporary Ma Iron(chronic) = Selenium(chro Expiration Date Iron(chronic) = assessment lo	 current conditions* onic) = current conditions e of 12/31/2018 = See section 33.6(4) for iron varions. 	pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide	 c (mg/L) acute TVS 0.019 0.005	 630 Chronic TVS 0.75 0.011	Cadmium Chromium III Chromium VI Copper Iron Lead Manganese Mercury Molybdenum Nickel	TVS TVS TVS TVS TVS TVS TVS	TVS TVS TVS 1000(T)* TVS TVS 0.01(t) 160(T) TVS
Temporary Ma Iron(chronic) = Selenium(chro Expiration Date Iron(chronic) = assessment lo	 current conditions* onic) = current conditions e of 12/31/2018 = See section 33.6(4) for iron varions. 	pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgani Ammonia Boron Chloride Chloride Chlorine Cyanide Nitrate	 c (mg/L) TVS 0.019 0.005 100	 630 chronic TVS 0.75 0.011 	Cadmium Chromium III Chromium VI Copper Iron Lead Manganese Mercury Molybdenum Nickel Selenium	TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS	TVS TVS TVS 1000(T)* TVS TVS 0.01(t) 160(T) TVS TVS
Temporary Ma Iron(chronic) = Selenium(chro Expiration Date *Iron(chronic) = assessment lo	 current conditions* onic) = current conditions e of 12/31/2018 = See section 33.6(4) for iron varions. 	pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	 c (mg/L) acute TVS 0.019 0.005 100	 630 chronic TVS 0.75 0.011 0.05	Cadmium Chromium III Chromium VI Copper Iron Lead Manganese Mercury Molybdenum Nickel Selenium Silver	TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS	TVS TVS TVS 1000(T)* TVS TVS 0.01(t) 160(T) TVS TVS TVS

EXHIBIT 3 WATER QUALITY CONTROL DIVISION

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

WATER QUALITY CONTROL COMMISSION

5 CCR 1002-36

REGULATION NO. 36 CLASSIFICATIONS AND NUMERIC STANDARDS FOR <u>RIO GRANDE BASIN</u>

. . . .

36.41 <u>STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER</u> <u>11, 2017 RULEMAKING; FINAL ACTION JANUARY 8, 2018; EFFECTIVE DATE JUNE 30,</u> <u>2018</u>

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

BASIS AND PURPOSE

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the commission reviewed the status of temporary modifications scheduled to expire before December 31, 2019 to determine whether the temporary modification should be modified, eliminated, or extended.

No action: The commission took no action on the temporary modifications on the following segments:

Rio Grande Segments 4a and 7: temporary modifications of the standards on Rio Grande Segment 4a (cadmium, lead, zinc, and ammonia) and Segment 7 (cadmium, copper, lead, silver, zinc, ammonia); expire 12/31/2018. Both the Town of Creede and Rio Grande Silver presented evidence that they are making progress on the plan for eliminating the need for need for the temporary modifications. The commission took no action on the temporary modifications on these two segments as the original time allotment was deemed adequate to resolve the uncertainty.

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

WATER QUALITY CONTROL COMMISSION

5 CCR 1002-36

REGULATION NO. 36 CLASSIFICATIONS AND NUMERIC STANDARDS FOR <u>RIO GRANDE BASIN</u>

APPENDIX 36-1 Stream Classifications and Water Quality Standards Tables

Effective 06/30/20172018

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Rio Grande River Basin

4a. Mainstem	of the Rio Grande from a point immedia	tely above the confluence with Willow	Creek to a p	oint immedia	tely above the confluence	with the South Fork F	lio Grande.
CORGRG04A	Classifications	Physical and Biolog	gical			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum		
	Recreation E		acute	chronic	Arsenic	340	0.02(T)
	Water Supply	D.O. (mg/L)		6.0	Beryllium		
Qualifiers:		D.O. (spawning)		7.0	Cadmium	varies*	varies*
Other:		рН	6.5 - 9.0		Chromium III	50(T)	TVS
Temporary Mo	odification(s):	chlorophyll a (mg/m2)			Chromium VI	TVS	TVS
Ammonia(ac/c	h) = current conditions	E. Coli (per 100 mL)		126	Copper	TVS	TVS
Cadmium(chro	onic) = current condition				Iron		WS
Lead(chronic)	= current condition	Inorganic (mg/L)		Iron		1000(T)	
Zinc(chronic) =	current condition		acute	chronic	Lead	TVS	varies*
Expiration Date	e of 12/31/2018	Ammonia	TVS	TVS	Manganese	TVS	varies*
Arsenic(chroni	c) = hybrid	Boron		0.75	Mercury		0.01(T)
Expiration Date	e of 12/31/2021	Chloride		250	Molybdenum		160(T)
	tte) = See 36.6(4) for site-specific	Chlorine	0.019	0.011	Nickel	TVS	TVS
	assessment locations. onic) = See 36.6(4) for site-specific	Cyanide	0.005		Selenium	TVS	TVS
	assessment locations.	Nitrate	10		Silver	TVS	TVS(tr)
standards and		Nitrite		0.05	Uranium		
	hronic) = See 36.6(4) for site-specific assessment locations.	Phosphorus			Zinc	varies*	varies*
*Zinc(acute) =	See 36.6(4) for site-specific standards	Sulfate		WS			
	nt locations. = See 36.6(4) for site-specific assessment locations.	Sulfide		0.002			

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Rio Grande River Basin

	/est Willow Creeks, to the confluence w				Г		
CORGRG07	Classifications	Physical and	-			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Aluminum		
	Recreation E		acute	chronic	Arsenic	340	100(T)
Qualifiers:		D.O. (mg/L)		6.0	Beryllium		
Other:		D.O. (spawning)		7.0	Cadmium	varies*	varies*
Temporary M	lodification(s):	рН	6.5 - 9.0		Chromium III	TVS	TVS
	ch) = current conditions*	chlorophyll a (mg/m2)		150*	Chromium III		100(T)
Cadmium(ac/o	,	E. Coli (per 100 mL)		126	Chromium VI	TVS	TVS
Copper(ac/ch)					Copper	varies*	varies*
Lead(ac/ch) =		Inorgan	iic (mg/L)		Iron		1000(T)
Silver(acute) =			acute	chronic	Lead	varies*	varies*
Zinc(ac/ch) =		Ammonia	TVS	TVS	Manganese	varies*	varies*
	te of 12/31/2018	Boron		0.75	Mercury		0.01(T)
*chlorophyll a	(mg/m2)(chronic) = applies only above				Molybdenum		160(T)
the facilities lis	sted at 36.5(4).	Chlorine			Nickel	TVS	TVS
*Phosphorus(facilities listed	chronic) = applies only above the $126.5(4)$			0.011			TVS
*Cadmium(ac	ute) = See 36.6(4) for temporary	Cyanide	0.005		Selenium	TVS	
modifications, assessment lo	site-specific standards and	Nitrate	100		Silver	varies*	TVS
	ronic) = See 36.6(4) for temporary	Nitrite		10	Uranium		
modifications, assessment lo	site-specific standards and	Phosphorus		0.11*	Zinc	varies*	varies*
	e) = See 36.6(4) for temporary	Sulfate					
modifications, assessment lo	site-specific standards and	Sulfide		0.002			
	nic) = See 36.6(4) for temporary						
	site-specific standards and						
assessment lo *Lead(acute) =	= See 36.6(4) for temporary						
modifications,	site-specific standards and						
assessment lo *Lead(chronic	cations. =) = See 36.6(4) for temporary						
modifications,	site-specific standards and						
assessment lo *Manganese(a	acute) = See 36.6(4) for site-specific						
standards and	assessment locations.						
	chronic) = See 36.6(4) for site-specific dassessment locations.						
*Silver(acute)	= See 36.6(4) for temporary						
modifications, assessment lo	site-specific standards and ocations.						
*Zinc(acute) =	See 36.6(4) for temporary						
modifications, assessment lo	site-specific standards and						
*Zinc(chronic)	= See 36.6(4) for temporary						
modifications, assessment lo	site-specific standards and						
*TempMod: A	mmonia = Willow below Creede						
WWTF. *TempMod ⁻ C	admium = See 36.6(4) for temporary						
modifications	and assessment locations.						
	opper = See 36.6(4) for temporary and assessment locations.						
*TempMod: Le	ead = See 36.6(4) for temporary						
	and assessment locations. ilver = See 36.6(4) for temporary						
	and assessment locations.						
*TempMod: Zi	inc = See 36.6(4) for temporary						
modifications	and assessment locations.						

EXHIBIT 4 WATER QUALITY CONTROL DIVISION

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

WATER QUALITY CONTROL COMMISSION

5 CCR 1002-37

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

. . . .

37.38 <u>STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER</u> <u>11, 2017 RULEMAKING; FINAL ACTION JANUARY 8, 2018; EFFECTIVE DATE JUNE 30,</u> <u>2018</u>

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

BASIS AND PURPOSE

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the commission reviewed the status of temporary modifications scheduled to expire before December 31, 2019 to determine whether the temporary modification should be modified, eliminated, or extended.

No action: The commission took no action on the temporary modifications on the following segments:

Lower Colorado Segment 4e: temporary modifications of the copper (expires 12/31/2019) and iron (expires 12/31/2018) standards. Tri-State Power and Generation presented evidence that it is making progress on the plan for eliminating the need for the temporary modifications. The commission took no action on the temporary modifications on this segment as the original time allotment was deemed adequate to resolve the uncertainty.

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

WATER QUALITY CONTROL COMMISSION

5 CCR 1002-37

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

APPENDIX 37-1 Stream Classifications and Water Quality Standards Tables

Effective 06/30/20172018

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Lower Colorado River

	of Dry Creek including all tributaries	and wetlands from the source to in	nmediately above th	e Last Chan	ice Ditch.			
COLCLC04E	Classifications	Physical and	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic	
UP	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Aluminum			
	Recreation N		acute	chronic	Arsenic	340	100(T)	
Qualifiers:		D.O. (mg/L)		5.0	Beryllium			
Other:		рН	6.5 - 9.0		Cadmium	TVS	TVS	
Temporary M	odification(s):	chlorophyll a (mg/m2)			Chromium III	TVS	TVS	
	= current conditions	E. Coli (per 100 mL)		630	Chromium III		100(T)	
Expiration Dat	e of 12/31/2019	Inorgan	Inorganic (mg/L)			TVS	TVS	
Iron(chronic) =	current conditions		acute	chronic	Copper	TVS	TVS	
Expiration Dat	e of 12/31/2018	Ammonia	TVS	TVS	Iron		1000(T)	
*Phosphorus(c	chronic) = applies only above the	Boron		0.75	Lead	TVS	TVS	
facilities listed	at 37.5(4).	Chloride			Manganese	TVS	TVS	
		Chlorine	0.019	0.011	Mercury		0.01(t)	
		Cyanide	0.005		Molybdenum		160(T)	
		Nitrate	100		Nickel	TVS	TVS	
		Nitrite		0.05	Selenium	TVS	TVS	
		Phosphorus		0.11*	Silver	TVS	TVS	
		Sulfate			Uranium			
		Sulfide		0.002	Zinc	TVS	TVS	

EXHIBIT 5 WATER QUALITY CONTROL DIVISION

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

WATER QUALITY CONTROL COMMISSION

5 CCR 1002-38

REGULATION NO. 38 CLASSIFICATIONS AND NUMERIC STANDARDS FOR <u>SOUTH PLATTE RIVER BASIN, LARAMIE RIVER BASIN,</u> <u>REPUBLICAN RIVER BASIN, SMOKY HILL RIVER BASIN</u>

. . . .

38.97 <u>STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER</u> <u>11, 2017 RULEMAKING; FINAL ACTION JANUARY 8, 2018; EFFECTIVE DATE JUNE 30,</u> 2018

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

BASIS AND PURPOSE

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the commission reviewed the status of temporary modifications scheduled to expire before December 31, 2019 to determine whether the temporary modification should be modified, eliminated, or extended.

No action: The commission took no action on the temporary modifications on the following segments:

Upper South Platte Segment 3: temporary modification of the ammonia standard below the Florissant Wastewater Treatment Facility (expires 12/31/2017). The Town of Florissant obtained funding to upgrade its facility and a progress report indicated the facility is on track to comply with ammonia effluent limits. The commission took no action on this temporary modification and it was deleted from the table because it expires 12/31/2017.

Upper South Platte Segment 10a: temporary modifications of the copper (expires 12/31/2018; applies below the Plum Creek Water Reclamation Authority) and manganese (expires 6/30/2019) standards. Plum Creek Water Reclamation Authority continues to make progress on resolving the uncertainty underlying both temporary modifications. The commission made no change to the expiration date as the original time allotment was deemed adequate to resolve the uncertainty.

Clear Creek Segments 11, 14a, 14b, and 15: temporary modification of the temperature standard (expires 6/30/2019). Miller Coors continues to make progress on resolving the uncertainty. The commission made no change to the expiration date as the original time allotment was deemed adequate to resolve the uncertainty.

Clear Creek Segment 13b: temporary modification of the cadmium standard (expires 12/31/2018). Black Hawk and Central City Sanitation District continues to make progress on resolving the uncertainty. The commission made no change to the expiration date as the original time allotment was deemed adequate to resolve the uncertainty.

New temporary modifications of the arsenic standard:

Consistent with the actions taken in 2013, the commission adopted a temporary modification of the arsenic standard on segments on the following list, with an expiration date of 12/31/2021. At the April 8, 2013 rulemaking, the commission heard testimony that concurred with the finding from a December 13, 2011 rulemaking hearing that an initial reasonable lower limit of treatment technology for arsenic is 3.0 μ g/L, pending further investigation by the division, dischargers and stakeholders. The temporary modification was established by the commission to allow for a temporarily less stringent application of the chronic arsenic standard in control requirements for both existing discharges and new or increased discharges.

Cherry Creek Segment 3 Boulder Creek Segment 7b

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

WATER QUALITY CONTROL COMMISSION

5 CCR 1002-38

REGULATION NO. 38 CLASSIFICATIONS AND NUMERIC STANDARDS FOR SOUTH PLATTE RIVER BASIN, LARAMIE RIVER BASIN REPUBLICAN RIVER BASIN, SMOKY HILL RIVER BASIN

APPENDIX 38-1 Stream Classifications and Water Quality Standards Tables

Effective 06/30/20172018

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Upper South Platte River Basin

COSPUS03	Classifications	pecific listings in Segment 1b. Physical and	Biological			Metals (ug/L)	
Designation	Agriculture	i nysicai anu	DM	MWAT		acute	chronic
Reviewable	Ag Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum		cinonic
(onomable	Recreation E		acute	chronic	Arsenic	340	0.02(T)
	Water Supply	D.O. (mg/L)		6.0	Beryllium		0.02(1)
Qualifiers:		D.O. (spawning)		7.0	Cadmium	TVS(tr)	TVS
Other:		pH	6.5 - 9.0		Cadmium	5.0(T)	
		chlorophyll a (mg/m2)		150*	Chromium III	50(T)	TVS
	odification(s):	E. Coli (per 100 mL)		126	Chromium VI	TVS	TVS
	$h = current condition^*$			120	Copper	TVS	TVS
Arsenic(chroni	e of 12/31/2017 ic) – bybrid	Inorgan	ic (mg/L)		Iron		ws
	e of 12/31/2021	inorgan	acute	chronic	Iron		1000(T)
		Ammonia	TVS	TVS	Lead	TVS	TVS
	(mg/m2)(chronic) = applies only above sted at 38.5(4).	Boron		0.75	Lead	50(T)	
Phosphorus(chronic) = applies only above the				Manganese	TVS	TVS
acilities listed TempMod: A	at 38.5(4). mmonia = below the Florissant	Chloride		250	-		WS
	reatment Facility outfall.	Chlorine	0.019	0.011	Manganese Mercury		0.01(t)
		Cyanide	0.005		Molybdenum		150(T)
		Nitrate	10		Nickel	TVS	TVS
		Nitrite		0.05	Nickel		
		Phosphorus		0.11*	Selenium		100(T)
		Sulfate		WS		TVS	TVS
		Sulfide		0.002	Silver	TVS	TVS(tr)
					Uranium		
IOa Mainston	ns of East Plum Creek, West Plum Cree	ok and Plum Crook from the bo	undary of National F	Forest lands	Zinc	TVS	TVS
	e boundary of National Forest lands to t			Ulest lanus			k and Gove
COSPUS10A	Classifications	Physical and	Biological			Metals (ug/L)	
	Classifications Agriculture	Physical and	Biological DM	MWAT		Metals (ug/L) acute	chronic
Designation		Physical and Temperature °C	-	MWAT WS-I	Aluminum	,	chronic
Designation	Agriculture	-	DM		Aluminum Arsenic	acute	
COSPUS10A Designation Reviewable	Agriculture Aq Life Warm 1	-	DM WS-I	WS-I	-	acute	
Designation Reviewable	Agriculture Aq Life Warm 1 Recreation E	Temperature °C	DM WS-I acute	WS-I chronic	Arsenic	acute 340	 0.02(T)
Designation Reviewable Qualifiers:	Agriculture Aq Life Warm 1 Recreation E	Temperature °C D.O. (mg/L)	DM WS-I acute	WS-I chronic 5.0	Arsenic Beryllium	acute 340 	 0.02(T)
Designation Reviewable Qualifiers: Dther:	Agriculture Aq Life Warm 1 Recreation E Water Supply	Temperature °C D.O. (mg/L) pH	DM WS-1 acute 6.5 - 9.0	WS-I chronic 5.0	Arsenic Beryllium Cadmium	acute 340 TVS	 0.02(T) TVS
Designation Reviewable Qualifiers: Other:	Agriculture Aq Life Warm 1 Recreation E Water Supply odification(s):	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m2) E. Coli (per 100 mL)	DM WS-1 acute 6.5 - 9.0	WS-I chronic 5.0 150*	Arsenic Beryllium Cadmium Cadmium	acute 340 TVS 5.0(T)	 0.02(T) TVS
Designation Reviewable Qualifiers: Dther: Femporary M Arsenic(chroni	Agriculture Aq Life Warm 1 Recreation E Water Supply odification(s):	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m2) E. Coli (per 100 mL)	DM WS-1 acute 6.5 - 9.0 	WS-I chronic 5.0 150*	Arsenic Beryllium Cadmium Cadmium Chromium III	acute 340 TVS 5.0(T) 50(T)	 0.02(T) TVS TVS
Designation Reviewable Qualifiers: Dther: Femporary M Arsenic(chroni Expiration Dat	Agriculture Aq Life Warm 1 Recreation E Water Supply odification(s): ic) = hybrid	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m2) E. Coli (per 100 mL)	DM WS-1 acute 6.5 - 9.0 ic (mg/L)	WS-I chronic 5.0 150* 126	Arsenic Beryllium Cadmium Cadmium Chromium III Chromium VI	acute 340 TVS 5.0(T) 50(T) TVS	 0.02(T) TVS TVS TVS
Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chroni Expiration Dat Copper(ac/ch)	Agriculture Aq Life Warm 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2021	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgan	DM WS-1 acute 6.5 - 9.0 ic (mg/L) acute	WS-I chronic 5.0 150* 126 chronic	Arsenic Beryllium Cadmium Cadmium Chromium III Chromium VI Copper	acute 340 TVS 5.0(T) 50(T) TVS TVS	 0.02(T) TVS TVS TVS TVS
Designation Reviewable Qualifiers: Dther: Femporary M Arsenic(chroni Expiration Dat Copper(ac/ch) Expiration Dat Manganese(ch	Agriculture Aq Life Warm 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2021 = current condition*	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgan	DM WS-1 acute 6.5 - 9.0 ic (mg/L) acute TVS	WS-I chronic 5.0 150* 126 chronic TVS	Arsenic Beryllium Cadmium Cadmium Chromium III Chromium VI Copper Iron	acute 340 TVS 5.0(T) 50(T) TVS TVS TVS	 0.02(T) TVS TVS TVS TVS TVS WS
Designation Reviewable Qualifiers: Dther: Femporary M Arsenic(chroni Expiration Dat Copper(ac/ch) Expiration Dat Manganese(ch condition*	Agriculture Aq Life Warm 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2021 = current condition* e of 12/31/2018 nronic) = current	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgan Ammonia Boron	DM WS-1 acute 6.5 - 9.0 ic (mg/L) acute TVS 	WS-I chronic 5.0 150* 126 chronic TVS 0.75	Arsenic Beryllium Cadmium Cadmium Chromium III Chromium VI Copper Iron Iron	acute 340 TVS 5.0(T) 50(T) TVS TVS TVS 	 0.02(T) TVS TVS TVS TVS WS 1000(T)
Designation Reviewable Qualifiers: Dther: Femporary M Arsenic(chroni Expiration Dat Copper(ac/ch) Expiration Dat Manganese(ch condition* Expiration Dat emperature(D	Agriculture Aq Life Warm 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2021 = current condition* e of 12/31/2018 nronic) = current e of 6/30/2019	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine	DM WS-1 acute 6.5 - 9.0 ic (mg/L) acute TVS 	WS-I chronic 5.0 150* 126 chronic TVS 0.75 250	Arsenic Beryllium Cadmium Cadmium Chromium III Chromium VI Copper Iron Iron Lead	acute 340 TVS 5.0(T) 50(T) TVS TVS TVS TVS	 0.02(T) TVS TVS TVS TVS WS 1000(T)
Designation Reviewable Qualifiers: Dther: Temporary M Arsenic(chroni Expiration Dat Copper(ac/ch) Expiration Dat Manganese(ch condition* Expiration Dat experiation Dat experiation Dat experiation Cate condition*	Agriculture Aq Life Warm 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2021 = current condition* e of 12/31/2018 hronic) = current e of 6/30/2019 DM/MWAT) = current 12/1 - 2/29	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine	DM WS-1 acute 6.5 - 9.0 ic (mg/L) acute TVS TVS 0.019	WS-I chronic 5.0 150* 126 chronic TVS 0.75 250 0.011	Arsenic Beryllium Cadmium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Lead	acute 340 TVS 5.0(T) 50(T) TVS TVS TVS TVS 50(T) TVS 50(T)	 0.02(T) TVS TVS TVS TVS TVS S S 1000(T) TVS
Designation Reviewable Rualifiers: Dther: Temporary M Insenic(chroni Expiration Dat Copper(ac/ch) Expiration Dat Manganese(ch condition* Expiration Dat emperature(C) condition* Expiration Dat	Agriculture Aq Life Warm 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2021 = current condition* e of 12/31/2018 nronic) = current e of 6/30/2019 DM/MWAT) = current 12/1 - 2/29 e of 12/31/2020	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide	DM WS-1 acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005	WS-I chronic 5.0 150* 126 Chronic TVS 0.75 250 0.011	Arsenic Beryllium Cadmium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Lead Manganese	acute 340 TVS 5.0(T) 50(T) TVS TVS TVS 50(T) TVS	 0.02(T) TVS TVS TVS TVS 1000(T) TVS TVS
Designation Reviewable Rualifiers: Other: Femporary M Insenic(chroni Expiration Dat Copper(ac/ch) Expiration Dat Manganese(ch ondition* Expiration Dat Expiration Dat Expiration Dat condition* Expiration Dat chlorophyll a	Agriculture Aq Life Warm 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2021 = current condition* e of 12/31/2018 hronic) = current e of 6/30/2019 DM/MWAT) = current 12/1 - 2/29 e of 12/31/2020 (mg/m2)(chronic) = applies only above	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	DM WS-1 acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10	WS-I chronic 5.0 150* 126 Chronic TVS 0.75 250 0.011 0.5	Arsenic Beryllium Cadmium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Lead Manganese Manganese	acute 340 TVS 5.0(T) 50(T) TVS TVS TVS 50(T) TVS 50(T) TVS	 0.02(T) TVS TVS TVS TVS S 1000(T) TVS TVS WS 0.01(t)
Designation Reviewable Qualifiers: Dther: Temporary M Arsenic(chroni Expiration Dat Anganese(ch Anganese(ch Anganese(ch Condition* Expiration Dat Expiration Dat Expiration Dat Expiration Dat Expiration Dat Condition* Expiration Dat Condition* Expiration Dat Condition* Expiration Dat Chlorophyll a De facilities lis Phosphorus(i	Agriculture Aq Life Warm 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2021 = current condition* e of 12/31/2018 nronic) = current e of 6/30/2019 VM/MWAT) = current 12/1 - 2/29 e of 12/31/2020 (mg/m2)(chronic) = applies only above sted at 38.5(4). chronic) = applies only above the	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgan Ammonia Boron Chloride Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	DM WS-1 acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10 	WS-I chronic 5.0 150* 126 Chronic TVS 0.75 250 0.011 0.5 0.17*	Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Lead Manganese Manganese Manganese	acute 340 TVS 5.0(T) 50(T) TVS TVS TVS TVS 50(T) TVS TVS 50(T) TVS TVS 50(T) TVS	 0.02(T) TVS TVS TVS TVS 1000(T) TVS TVS WS
Designation Reviewable Qualifiers: Dther: Temporary M Arsenic(chroni Expiration Dat Copper(ac/ch) Expiration Dat Anganese(ch condition* Expiration Dat Expiration Dat Expiration Dat chlorophyll a he facilities listed	Agriculture Aq Life Warm 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2021 = current condition* e of 12/31/2018 hronic) = current e of 6/30/2019 DM/MWAT) = current 12/1 - 2/29 e of 12/31/2020 (mg/m2)(chronic) = applies only above the at 38.5(4).	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrate Nitrite Phosphorus Sulfate	DM WS-1 acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10 10 	WS-I chronic 5.0 150* 126 chronic TVS 0.75 250 0.011 0.5 0.17* WS	Arsenic Beryllium Cadmium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Lead Manganese Manganese Mercury Molybdenum	acute 340 TVS 5.0(T) 50(T) TVS TVS 50(T) TVS 50(T) TVS TVS 50(T) TVS TVS	 0.02(T) TVS TVS TVS TVS 1000(T) TVS TVS WS 0.01(t) 150(T) TVS
Designation Reviewable Qualifiers: Dther: Temporary M Arsenic(chroni Expiration Dat Copper(ac/ch) Expiration Dat Manganese(ch condition* Expiration Dat condition* Expiration Dat chlorophyll a he facilities listed TempMod: Cc Creek below ti	Agriculture Aq Life Warm 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2021 = current condition* e of 12/31/2018 hronic) = current e of 6/30/2019 DM/MWAT) = current 12/1 - 2/29 e of 12/31/2020 (mg/m2)(chronic) = applies only above sted at 38.5(4). chronic) = applies only above the at 38.5(4). chronic) = applies only above the at 38.5(4).	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate Sulfide	DM WS-1 acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10 	WS-I chronic 5.0 150* 126 Chronic TVS 0.75 250 0.011 0.5 0.17*	Arsenic Beryllium Cadmium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Lead Manganese Manganese Mercury Molybdenum Nickel Nickel	acute 340 TVS 5.0(T) 50(T) TVS TVS TVS 50(T) TVS 50(T) TVS 50(T) TVS 50(T) TVS 50(T) TVS TVS 50(T) TVS TVS 50(T) TVS TVS TVS TVS TVS TVS TVS	 0.02(T) TVS TVS TVS TVS 1000(T) TVS TVS WS 0.01(t) 150(T) TVS 100(T)
Designation Reviewable Qualifiers: Dther: Temporary M Arsenic(chroni Expiration Dat Copper(ac/ch) Expiration Dat Manganese(ch condition* Expiration Dat danganese(ch condition* Expiration Dat emperature(D condition* Expiration Dat chlorophyll a he facilities listed Phosphorus(d acilities listed TempMod: Ch Treek below ti	Agriculture Aq Life Warm 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2021 = current condition* e of 12/31/2018 nronic) = current e of 6/30/2019 DM/MWAT) = current 12/1 - 2/29 e of 12/31/2020 (mg/m2)(chronic) = applies only above sted at 38.5(4). chronic) = applies only above the at 38.5(4). opper = East Plum Creek and Plum	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate Sulfide	DM WS-1 acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10 10 	WS-I chronic 5.0 150* 126 chronic TVS 0.75 250 0.011 0.5 0.17* WS	Arsenic Beryllium Cadmium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Lead Manganese Manganese Manganese Marcury Molybdenum Nickel Selenium	acute 340 TVS 5.0(T) 50(T) TVS TVS TVS TVS 50(T) TVS TVS 50(T) TVS 50(T) TVS 50(T) TVS TVS 50(T) TVS TVS 50(T) TVS TVS TVS TVS TVS TVS TVS TVS TVS	 0.02(T) TVS TVS TVS TVS (1000(T) TVS (1000(T) TVS 0.01(t) 150(T) TVS 100(T) TVS
Designation Reviewable Qualifiers: Dther: Temporary M Arsenic(chroni Expiration Dat Copper(ac/ch) Expiration Dat Manganese(ch condition* Expiration Dat emperature(C) Expiration Dat emperature(C) Expiration Dat chlorophyll a he facilities listed TempMod: Co Creek below ti TempMod: Co Creek below ti	Agriculture Aq Life Warm 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2021 = current condition* e of 12/31/2018 nronic) = current e of 6/30/2019 DM/MWAT) = current 12/1 - 2/29 e of 12/31/2020 (mg/m2)(chronic) = applies only above sted at 38.5(4). chronic) = applies only above the at 38.5(4). opper = East Plum Creek and Plum he PCWRA discharge. anganese = applies to the manganese mperature(12/1 - 2/29) = East Plum	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate Sulfide	DM WS-1 acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10 10 	WS-I chronic 5.0 150* 126 chronic TVS 0.75 250 0.011 0.5 0.17* WS	Arsenic Beryllium Cadmium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Lead Manganese Manganese Marcury Molybdenum Nickel Nickel Selenium Silver	acute	 0.02(T) TVS TVS TVS TVS 1000(T) TVS TVS WS 0.01(t) 150(T) TVS 100(T)
Designation Reviewable Rualifiers: Dther: Temporary M Insenic (chroni Expiration Dat Copper (ac/ch) Expiration Dat Aanganese (ch ondition* Expiration Dat Aanganese (ch ondition* Expiration Dat Copper (ac/ch) Expiration Dat Copper (ac/ch) Expiration Dat Condition* Expiration Dat Expiration Dat	Agriculture Aq Life Warm 1 Recreation E Water Supply odification(s): ic) = hybrid e of 12/31/2021 = current condition* e of 12/31/2018 hronic) = current e of 6/30/2019 DM/MWAT) = current 12/1 - 2/29 e of 12/31/2020 (mg/m2)(chronic) = applies only above tied at 38.5(4). opper = East Plum Creek and Plum he PCWRA discharge. anganese = applies to the manganese	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate Sulfide	DM WS-1 acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 10 10 	WS-I chronic 5.0 150* 126 chronic TVS 0.75 250 0.011 0.5 0.17* WS	Arsenic Beryllium Cadmium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Lead Manganese Manganese Manganese Marcury Molybdenum Nickel Selenium	acute 340 TVS 5.0(T) 50(T) TVS TVS TVS TVS 50(T) TVS TVS 50(T) TVS 50(T) TVS 50(T) TVS TVS 50(T) TVS TVS 50(T) TVS TVS TVS TVS TVS TVS TVS TVS TVS	 0.02(T) TVS TVS TVS TVS 1000(T) TVS 0.01(t) 150(T) TVS 100(T) TVS

All metals are dissolved unless otherwise noted. T = total recoverable t = total tr = trout

D.O. = dissolved oxygen

DM = daily maximum MWAT = maximum weekly average temperature

See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

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

COSPCH03	Classifications	Physical and	Biological		Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Aluminum		
	Recreation E		acute	chronic	Arsenic	340	0.02-10(T) ^A
	Water Supply	D.O. (mg/L)		5.0	Beryllium		
Qualifiers:		рН	6.5 - 9.0		Cadmium	TVS	TVS
Other:		chlorophyll a (mg/m2)			Cadmium	5.0(T)	
Temporary N	Iodification(s):	E. Coli (per 100 mL)		126	Chromium III	50(T)	TVS
Arsenic(chror	<u>nic) = hybrid</u>	Inorgani	c (mg/L)		Chromium VI	TVS	TVS
Expiration Da	te of 12/31/2021		acute	chronic	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron		WS
		Boron		0.75	Iron		1000(T)
		Chloride		250	Lead	TVS	TVS
		Chlorine	0.019	0.011	Lead	50(T)	
		Cyanide	0.005		Manganese	TVS	TVS
		Nitrate	10		Manganese		WS
		Nitrite		0.5	Mercury		0.01(t)
		Phosphorus			Molybdenum		150(T)
		Sulfate		WS	Nickel	TVS	TVS
		Sulfide		0.002	Nickel		100(T)
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium		
					Zinc	TVS	TVS

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

TT. Mainstern	of Clear Creek from a point just above t						
COSPCL11	Classifications	Physical and	Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum		
	Recreation E		acute	chronic	Arsenic	340	0.02(T)
	Water Supply	D.O. (mg/L)		6.0	Beryllium		
Qualifiers:		D.O. (spawning)		7.0	Cadmium	TVS(tr)	TVS
Other:		рН	6.5 - 9.0		Cadmium	5.0(T)	
Temporary M	odification(s):	chlorophyll a (mg/m2)			Chromium III	50(T)	TVS
Arsenic(chron		E. Coli (per 100 mL)		126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2021					Copper		17
	0M/MWAT) = current	Inorgani	c (mg/L)		Iron		WS
condition* Expiration Dat	e of 6/30/2019		acute	chronic	Iron		1000(T)
Explication Bat		Ammonia	TVS	TVS	Lead	TVS	TVS
	0.978e^(0.8537[In(hardness)]+1.9467)	Boron		0.75	Lead	50(T)	
*Zinc(chronic) 0.986e^(0.853	= 87[In(hardness)]+1.8032)	Chloride		250	Manganese	TVS	TVS
	mperature = from a point just f the US 6 Bridge to the Farmers	Chlorine	0.019	0.011	Manganese		WS
	I diversion in Golden, Colorado.	Cyanide	0.005		Mercury		0.01(t)
		Nitrate	10		Molybdenum		150(T)
		Nitrite		0.05	Nickel	TVS	TVS
		Phosphorus			Nickel		100(T)
		Sulfate		WS	Selenium	TVS	TVS
		Sulfide		0.002	Silver	TVS	TVS(tr)
					Uranium		
					oranium		
					Zinc		SSE*
							SSE*
13b. Mainsten	n of North Clear Creek including all tribu	taries and wetlands from a point	just below the cont	fluence with	Zinc Zinc	 SSE*	
specific listing	s in Segment 13a.		•	fluence with	Zinc Zinc	 SSE* nfluence with Clear Creel	
specific listing COSPCL13B	s in Segment 13a. Classifications	taries and wetlands from a point Physical and I	Biological		Zinc Zinc	SSE* nfluence with Clear Creel Metals (ug/L)	 <, except for the
specific listing COSPCL13B Designation	s in Segment 13a. Classifications Agriculture	Physical and I	Biological DM	MWAT	Zinc Zinc Chase Gulch to the co	 SSE* nfluence with Clear Creel Metals (ug/L) acute	<pre> <, except for the chronic</pre>
specific listing COSPCL13B	s in Segment 13a. Classifications Agriculture Aq Life Cold 2		Biological DM CS-I	MWAT CS-I	Zinc Zinc Chase Gulch to the con Aluminum	 SSE* nfluence with Clear Creel Metals (ug/L) acute 	 <, except for the chronic
specific listing COSPCL13B Designation UP	s in Segment 13a. Classifications Agriculture	Physical and I	Biological DM	MWAT CS-I chronic	Zinc Zinc Chase Gulch to the co Aluminum Arsenic	SSE* nfluence with Clear Creel Metals (ug/L) acute 340	 x, except for the chronic 100(T)
specific listing COSPCL13B Designation	s in Segment 13a. Classifications Agriculture Aq Life Cold 2	Physical and I Temperature °C D.O. (mg/L)	Biological DM CS-I acute 	MWAT CS-I chronic 6.0	Zinc Zinc Chase Gulch to the con Aluminum Arsenic Beryllium	SSE* Influence with Clear Cree Metals (ug/L) acute 340	 x, except for the chronic 100(T)
specific listing COSPCL13B Designation UP	s in Segment 13a. Classifications Agriculture Aq Life Cold 2	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning)	Biological DM CS-I acute 	MWAT CS-I chronic 6.0 7.0	Zinc Zinc Chase Gulch to the con Aluminum Arsenic Beryllium Cadmium	 SSE* Influence with Clear Cree Metals (ug/L) 340 TVS(tr)	 <, except for the chronic 100(T) TVS
specific listing COSPCL13B Designation UP Qualifiers:	s in Segment 13a. Classifications Agriculture Aq Life Cold 2 Recreation E	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH	Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 	Zinc Zinc Chase Gulch to the con Aluminum Arsenic Beryllium Cadmium Chromium III	SSE* Influence with Clear Cree Metals (ug/L) acute 340	 x, except for the chronic 100(T) TVS TVS
specific listing COSPCL13B Designation UP Qualifiers: Other:	s in Segment 13a. Classifications Agriculture Aq Life Cold 2 Recreation E odification(s):	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2)	Biological DM CS-I acute 	MWAT CS-I chronic 6.0 7.0 150*	Zinc Zinc Chase Gulch to the con Aluminum Arsenic Beryllium Cadmium Chromium III Chromium III	 SSE* Influence with Clear Cree Metals (ug/L) acute 340 TVS(tr) TVS TVS	 <, except for the chronic 100(T) TVS TVS TVS 100(T)
specific listing COSPCL13B Designation UP Qualifiers: Other: Temporary M Cadmium(chro Expiration Dat	s in Segment 13a. Classifications Agriculture Aq Life Cold 2 Recreation E odification(s): onic) = 4.7 re of 12/31/2018	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH	Biological DM CS-I acute 6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 	Zinc Zinc Chase Gulch to the con Aluminum Arsenic Beryllium Cadmium Chromium III Chromium III Chromium VI	 SSE* Influence with Clear Cree Metals (ug/L) acute 340 TVS(tr) TVS TVS TVS	 x, except for the chronic 100(T) TVS TVS 100(T) TVS
specific listing COSPCL13B Designation UP Qualifiers: Other: Temporary M Cadmium(chro Expiration Dat temperature(E	s in Segment 13a. Classifications Agriculture Aq Life Cold 2 Recreation E odification(s): onic) = 4.7	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL)	Biological DM CS-I acute 6.5 - 9.0 	MWAT CS-I chronic 6.0 7.0 150*	Zinc Zinc Chase Gulch to the con Aluminum Arsenic Beryllium Cadmium Chromium III Chromium III	 SSE* Influence with Clear Cree Metals (ug/L) acute 340 TVS(tr) TVS TVS	 <, except for the chronic 100(T) TVS TVS TVS 100(T)
specific listing COSPCL13B Designation UP Qualifiers: Other: Temporary M Cadmium(chro Expiration Dat temperature(D condition	s in Segment 13a. Classifications Agriculture Aq Life Cold 2 Recreation E odification(s): onic) = 4.7 re of 12/31/2018	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2)	Biological DM CS-I acute 6.5 - 9.0 	MWAT CS-I chronic 6.0 7.0 150* 126	Zinc Zinc Chase Gulch to the con Aluminum Arsenic Beryllium Cadmium Chromium III Chromium III Chromium VI Copper Iron	 SSE* Influence with Clear Cree Metals (ug/L) acute 340 TVS(tr) TVS TVS TVS 	 <, except for the chronic 100(T) TVS TVS 100(T) TVS 64 5400(T)
specific listing COSPCL13B Designation UP Qualifiers: Other: Temporary M Cadmium(chro Expiration Dat temperature(C condition Expiration Dat	s in Segment 13a. Classifications Agriculture Aq Life Cold 2 Recreation E odification(s): pinc) = 4.7 te of 12/31/2018 DM/MWAT) = current te of 12/31/2020	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL)	Biological DM CS-I acute 6.5 - 9.0 c (mg/L) acute	MWAT CS-I chronic 6.0 7.0 150* 126 chronic	Zinc Zinc Chase Gulch to the con Aluminum Arsenic Beryllium Cadmium Chromium III Chromium III Chromium VI Copper Iron Lead	 SSE* Influence with Clear Cree Metals (ug/L) acute 340 TVS(tr) TVS TVS TVS TVS	 <, except for the chronic 100(T) TVS TVS 100(T) TVS 64 5400(T) TVS
specific listing COSPCL13B Designation UP Qualifiers: Other: Temporary M Cadmium(chro Expiration Dat temperature(D condition Expiration Dat *chlorophyll a the facilities list	s in Segment 13a. Classifications Agriculture Aq Life Cold 2 Recreation E odification(s): onic) = 4.7 te of 12/31/2018 DM/MWAT) = current te of 12/31/2020 (mg/m2)(chronic) = applies only above sted at 38.5(4).	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgani	Biological DM CS-I acute 6.5 - 9.0 c (mg/L)	MWAT CS-I chronic 6.0 7.0 150* 126 126 chronic	Zinc Zinc Zinc Chase Gulch to the con Aluminum Arsenic Beryllium Cadmium Chromium III Chromium III Chromium III Chromium VI Copper Iron Lead Manganese	 SSE* Influence with Clear Cree Metals (ug/L) 340 TVS(tr) TVS TVS TVS TVS TVS TVS	 x, except for the chronic 100(T) TVS TVS 100(T) TVS 64 5400(T) TVS K
specific listing COSPCL13B Designation UP Qualifiers: Other: Temporary M Cadmium(chro Expiration Dat temperature(D condition Expiration Dat *chlorophyll a the facilities list	s in Segment 13a. Classifications Agriculture Aq Life Cold 2 Recreation E odification(s): onic) = 4.7 te of 12/31/2018 DM/MWAT) = current te of 12/31/2020 (mg/m2)(chronic) = applies only above sted at 38.5(4). chronic) = applies only above the	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgani	Biological DM CS-I acute 6.5 - 9.0 c (mg/L) acute	MWAT CS-I chronic 6.0 7.0 150* 126 chronic	Zinc Zinc Zinc Chase Gulch to the con Aluminum Arsenic Beryllium Cadmium Chromium III Chromium III Chromium III Chromium VI Copper Iron Lead Manganese Mercury	 SSE* Influence with Clear Cree Metals (ug/L) acute 340 TVS(tr) TVS TVS TVS TVS	 x, except for the chronic 100(T) TVS TVS 100(T) TVS 64 5400(T) TVS 64 5400(T) TVS 0.01(t)
specific listing COSPCL13B Designation UP Qualifiers: Other: Temporary M Cadmium(chro Expiration Dat temperature(D condition Expiration Dat *chlorophyll a the facilities lis *Phosphorus(i	s in Segment 13a. Classifications Agriculture Aq Life Cold 2 Recreation E odification(s): onic) = 4.7 te of 12/31/2018 DM/MWAT) = current te of 12/31/2020 (mg/m2)(chronic) = applies only above sted at 38.5(4). chronic) = applies only above the	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgani Ammonia Boron Chloride	Biological DM CS-I acute 6.5 - 9.0 c (mg/L) acute TVS	MWAT CS-I chronic 6.0 7.0 150* 126 126 chronic	Zinc Zinc Zinc Chase Gulch to the con Aluminum Arsenic Beryllium Cadmium Cadmium Chromium III Chromium III Chromium III Chromium VI Copper Iron Lead Manganese Mercury Molybdenum	 SSE* Influence with Clear Creek Metals (ug/L) acute 340 340 TVS(tr) TVS TVS TVS TVS TVS TVS TVS -	 x, except for the chronic 100(T) TVS TVS 100(T) TVS 64 5400(T) TVS 64 5400(T) TVS 0.01(t) 150(T)
specific listing COSPCL13B Designation UP Qualifiers: Other: Temporary M Cadmium(chro Expiration Dat temperature(D condition Expiration Dat *chlorophyll a the facilities lis *Phosphorus(i	s in Segment 13a. Classifications Agriculture Aq Life Cold 2 Recreation E odification(s): onic) = 4.7 te of 12/31/2018 DM/MWAT) = current te of 12/31/2020 (mg/m2)(chronic) = applies only above sted at 38.5(4). chronic) = applies only above the	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgani Ammonia Boron	Biological DM CS-I acute 6.5 - 9.0 c (mg/L) CS CS CS CS CS CS CS CS CS CS	MWAT CS-I chronic 6.0 7.0 150* 126 126 chronic TVS 0.75	Zinc Zinc Zinc Chase Gulch to the con Aluminum Arsenic Beryllium Cadmium Chromium III Chromium III Chromium III Chromium VI Copper Iron Lead Manganese Mercury Molybdenum Nickel	 SSE* Influence with Clear Cree Metals (ug/L) acute 340 TVS(tr) TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS	
specific listing COSPCL13B Designation UP Qualifiers: Other: Temporary M Cadmium(chro Expiration Dat temperature(D condition Expiration Dat *chlorophyll a the facilities lis *Phosphorus(i	s in Segment 13a. Classifications Agriculture Aq Life Cold 2 Recreation E odification(s): onic) = 4.7 te of 12/31/2018 DM/MWAT) = current te of 12/31/2020 (mg/m2)(chronic) = applies only above sted at 38.5(4). chronic) = applies only above the	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgani Ammonia Boron Chloride	Biological DM CS-I acute 6.5 - 9.0 c (mg/L) acute TVS 	MWAT CS-I chronic 6.0 7.0 150* 126 126 chronic TVS 0.75 	Zinc Zinc Zinc Chase Gulch to the con Aluminum Arsenic Beryllium Cadmium Chromium III Chromium III Chromium III Chromium VI Copper Iron Lead Manganese Mercury Molybdenum Nickel Selenium	 SSE* Influence with Clear Creel Metals (ug/L) Acute 340 340 TVS(tr) TVS (tr) TVS	 x, except for the chronic 100(T) TVS TVS 100(T) TVS 64 5400(T) TVS 64 5400(T) TVS 0.01(t) 150(T) TVS TVS
specific listing COSPCL13B Designation UP Qualifiers: Other: Temporary M Cadmium(chro Expiration Dat temperature(D condition Expiration Dat *chlorophyll a the facilities lis *Phosphorus(i	s in Segment 13a. Classifications Agriculture Aq Life Cold 2 Recreation E odification(s): onic) = 4.7 te of 12/31/2018 DM/MWAT) = current te of 12/31/2020 (mg/m2)(chronic) = applies only above sted at 38.5(4). chronic) = applies only above the	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine	Biological DM CS-I acute 6.5 - 9.0 c (mg/L) c (mg/L) TVS TVS 0.019	MWAT CS-I chronic 6.0 7.0 150* 126 Chronic TVS 0.75 0.011	Zinc Zinc Zinc Chase Gulch to the con Aluminum Arsenic Beryllium Cadmium Chromium III Chromium III Chromium VI Copper Iron Lead Manganese Mercury Molybdenum Nickel Selenium Silver	 SSE* Influence with Clear Cree Metals (ug/L) acute 340 TVS(tr) TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS	
specific listing COSPCL13B Designation UP Qualifiers: Other: Temporary M Cadmium(chro Expiration Dat temperature(D condition Expiration Dat *chlorophyll a the facilities lis *Phosphorus(i	s in Segment 13a. Classifications Agriculture Aq Life Cold 2 Recreation E odification(s): onic) = 4.7 te of 12/31/2018 DM/MWAT) = current te of 12/31/2020 (mg/m2)(chronic) = applies only above sted at 38.5(4). chronic) = applies only above the	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide	Biological DM CS-I acute 6.5 - 9.0 c (mg/L) acute TVS TVS 0.019 0.005	MWAT CS-I chronic 6.0 7.0 126 126 Chronic TVS 0.75 0.011	Zinc Zinc Zinc Chase Gulch to the con Aluminum Arsenic Beryllium Cadmium Chromium III Chromium III Chromium III Chromium VI Copper Iron Lead Manganese Mercury Molybdenum Nickel Selenium	 SSE* Influence with Clear Creel Metals (ug/L) Acute 340 340 TVS(tr) TVS (tr) TVS	 x, except for the chronic 100(T) TVS TVS 100(T) TVS 64 5400(T) TVS 64 5400(T) TVS 0.01(t) 150(T) TVS TVS
specific listing COSPCL13B Designation UP Qualifiers: Other: Temporary M Cadmium(chro Expiration Dat temperature(D condition Expiration Dat *chlorophyll a the facilities lis *Phosphorus(i	s in Segment 13a. Classifications Agriculture Aq Life Cold 2 Recreation E odification(s): onic) = 4.7 te of 12/31/2018 DM/MWAT) = current te of 12/31/2020 (mg/m2)(chronic) = applies only above sted at 38.5(4). chronic) = applies only above the	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide Nitrate	Biological DM CS-I acute 6.5 - 9.0 c (mg/L) acute TVS 0.019 0.005 100	MWAT CS-I chronic 6.0 7.0 150* 126 126 Chronic TVS 0.75 0.75 0.011	Zinc Zinc Zinc Chase Gulch to the con Aluminum Arsenic Beryllium Cadmium Chromium III Chromium III Chromium VI Copper Iron Lead Manganese Mercury Molybdenum Nickel Selenium Silver	 SSE* Influence with Clear Creek Metals (ug/L) Metals (ug/L) 340 340 TVS(tr) TVS TVS TVS -	 x, except for the chronic 100(T) TVS TVS 100(T) TVS 64 5400(T) TVS 64 5400(T) TVS 0.01(t) 150(T) TVS TVS
specific listing COSPCL13B Designation UP Qualifiers: Other: Temporary M Cadmium(chro Expiration Dat temperature(D condition Expiration Dat *chlorophyll a the facilities lis *Phosphorus(i	s in Segment 13a. Classifications Agriculture Aq Life Cold 2 Recreation E odification(s): onic) = 4.7 te of 12/31/2018 DM/MWAT) = current te of 12/31/2020 (mg/m2)(chronic) = applies only above sted at 38.5(4). chronic) = applies only above the	Physical and I Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL) Inorgani Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	Biological DM CS-I acute 6.5 - 9.0 c (mg/L) C (MWAT CS-I chronic 6.0 7.0 150* 126 126 Chronic TVS 0.75 0.011 0.011	Zinc Zinc Zinc Zinc Chase Gulch to the con Aluminum Arsenic Beryllium Cadmium Cadmium Cadmium Chromium III Chromium III Chromium III Chromium VI Copper Iron Lead Manganese Mercury Molybdenum Nickel Selenium Silver Uranium	 SSE* Influence with Clear Creek Metals (ug/L) Metals (ug/L) Current C	

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

	8	hline Canal diversion in Golden, Co		nver water t	conduit #16 crossing.		
COSPCL14A	Classifications	Physical and Bi	ological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Aluminum		
	Recreation N		acute	chronic	Arsenic	340	0.02-10(T)
	Water Supply	D.O. (mg/L)		5.0	Beryllium		
Qualifiers:		рН	6.5 - 9.0		Cadmium	TVS	TVS
Other:		chlorophyll a (mg/m2)			Cadmium	5.0(T)	
Temporary Mo	odification(s):	E. Coli (per 100 mL)		630	Chromium III	50(T)	TVS
Arsenic(chroni		Inorganic	(mg/L)		Chromium VI	TVS	TVS
Expiration Date	e of 12/31/2021		acute	chronic	Copper	TVS	TVS
	M/MWAT) = current	Ammonia	TVS	TVS	Iron		WS
condition Expiration Date	e of 6/30/2019	Boron		0.75	Iron		1000(T)
		Chloride		250	Lead	TVS	TVS
<pre>^Zinc(acute) = effect ratio).</pre>	TVS x (times) the FWER (final water	Chlorine	0.019	0.011	Lead	50(T)	
Expiration date	e of 12/31/20. = TVS x (times) the FWER (final	Cyanide	0.005		Manganese	TVS	244
water effect rat	tio).	Nitrate	10		Mercury		0.01(t)
Expiration date	e of 12/31/20.	Nitrite		0.5	Molybdenum		150(T)
		Phosphorus			Nickel	TVS	TVS
		Sulfate		WS	Nickel		100(T)
		Sulfide		0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium		
					Zinc	TVSx1.57*	TVSx1.57*
	n of Clear Creek from the Denver Wate		_	ield Street in	Wheat Ridge, Colorad		
	Classifications	Physical and Bi	-			Metals (ug/L)	
-	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Aluminum		
	Recreation E		acute	chronic	Arsenic	340	0.02(T)
Qualifiers:	Water Supply	D.O. (mg/L)		5.0	Beryllium		
Water + Fish	Standards	рН	6.5 - 9.0		Cadmium	TVS	TVS
Water + 115113							
		chlorophyll a (mg/m2)			Cadmium	5.0(T)	
Other:		chlorophyll a (mg/m2) E. Coli (per 100 mL)		 126	Chromium III	5.0(T) 50(T)	TVS
Temporary Mo	odification(s):				Chromium III Chromium VI	5.0(T) 50(T) TVS	TVS TVS
Temporary Mo temperature(D		E. Coli (per 100 mL)			Chromium III Chromium VI Copper	5.0(T) 50(T)	TVS TVS TVS
Temporary Mo	odification(s): M/MWAT) = current	E. Coli (per 100 mL) Inorganic Ammonia	 (mg/L)	126 chronic TVS	Chromium III Chromium VI Copper Iron	5.0(T) 50(T) TVS TVS 	TVS TVS TVS WS
Temporary Mo temperature(D condition Expiration Date	odification(s): M/MWAT) = current	E. Coli (per 100 mL) Inorganic Ammonia Boron	 (mg/L) acute T∨S 	126 chronic TVS 0.75	Chromium III Chromium VI Copper Iron Iron	5.0(T) 50(T) TVS TVS 	TVS TVS TVS WS 1000(T)
Temporary Mo temperature(D condition Expiration Dato *Zinc(acute) = effect ratio).	odification(s): M/MWAT) = current e of 6/30/2019 TVS x (times) the FWER (final water	E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride	 (mg/L) acute TVS 	126 chronic TVS 0.75 250	Chromium III Chromium VI Copper Iron Iron Lead	5.0(T) 50(T) TVS TVS TVS	TVS TVS TVS WS 1000(T) TVS
Temporary Mo temperature(D condition Expiration Date *Zinc(acute) = effect ratio). Expiration date *Zinc(chronic)	odification(s): M/MWAT) = current e of 6/30/2019 TVS x (times) the FWER (final water e of 12/31/20. = TVS x (times) the FWER (final	E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine	 (mg/L) acute TVS 0.019	126 chronic TVS 0.75	Chromium III Chromium VI Copper Iron Iron Lead Lead	5.0(T) 50(T) TVS TVS TVS 50(T)	TVS TVS TVS WS 1000(T) TVS
Temporary Mo temperature(D condition Expiration Date *Zinc(acute) = effect ratio). Expiration date *Zinc(chronic) water effect rat	odification(s): M/MWAT) = current e of 6/30/2019 TVS x (times) the FWER (final water e of 12/31/20. = TVS x (times) the FWER (final tio).	E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide	 (mg/L) acute TVS 0.019 0.005	126 chronic TVS 0.75 250	Chromium III Chromium VI Copper Iron Iron Lead Lead Manganese	5.0(T) 50(T) TVS TVS TVS 50(T) TVS	TVS TVS TVS WS 1000(T) TVS 244
Temporary Mo temperature(D condition Expiration Date *Zinc(acute) = effect ratio). Expiration date *Zinc(chronic)	odification(s): M/MWAT) = current e of 6/30/2019 TVS x (times) the FWER (final water e of 12/31/20. = TVS x (times) the FWER (final tio).	E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate	 (mg/L) acute TVS 0.019	126 chronic T∨S 0.75 250 0.011 	Chromium III Chromium VI Copper Iron Iron Lead Lead Manganese Mercury	5.0(T) 50(T) TVS TVS TVS 50(T)	TVS TVS TVS WS 1000(T) TVS 244 0.01(t)
Temporary Mo temperature(D condition Expiration Date *Zinc(acute) = effect ratio). Expiration date *Zinc(chronic) water effect rat	odification(s): M/MWAT) = current e of 6/30/2019 TVS x (times) the FWER (final water e of 12/31/20. = TVS x (times) the FWER (final tio).	E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	 (mg/L) acute TVS 0.019 0.005	126 chronic TVS 0.75 250 0.011 0.5	Chromium III Chromium VI Copper Iron Iron Lead Lead Manganese Mercury Molybdenum	5.0(T) 50(T) TVS TVS TVS 50(T) TVS 	TVS TVS TVS WS 1000(T) TVS 244 0.01(t) 150(T)
Temporary Mo temperature(D condition Expiration Date *Zinc(acute) = effect ratio). Expiration date *Zinc(chronic) water effect rat	odification(s): M/MWAT) = current e of 6/30/2019 TVS x (times) the FWER (final water e of 12/31/20. = TVS x (times) the FWER (final tio).	E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrate Phosphorus	 (mg/L) TVS 0.019 0.005 10	126 chronic TVS 0.75 250 0.011 0.5 	Chromium III Chromium VI Copper Iron Iron Lead Lead Manganese Mercury Molybdenum Nickel	5.0(T) 50(T) TVS TVS TVS 50(T) TVS TVS TVS	TVS TVS TVS WS 1000(T) TVS 244 0.01(t) 150(T) TVS
Temporary Mo temperature(D condition Expiration Date *Zinc(acute) = effect ratio). Expiration date *Zinc(chronic) water effect rat	odification(s): M/MWAT) = current e of 6/30/2019 TVS x (times) the FWER (final water e of 12/31/20. = TVS x (times) the FWER (final tio).	E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	 (mg/L) acute TVS 0.019 0.005 10 	126 chronic TVS 0.75 250 0.011 0.5	Chromium III Chromium VI Copper Iron Iron Lead Lead Manganese Mercury Molybdenum Nickel Nickel	5.0(T) 50(T) TVS TVS TVS 50(T) TVS TVS TVS 	TVS TVS WS 1000(T) TVS 244 0.01(t) 150(T) TVS 100(T)
Temporary Mo temperature(D condition Expiration Date *Zinc(acute) = effect ratio). Expiration date *Zinc(chronic) water effect rat	odification(s): M/MWAT) = current e of 6/30/2019 TVS x (times) the FWER (final water e of 12/31/20. = TVS x (times) the FWER (final tio).	E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrate Phosphorus	 (mg/L) acute TVS 0.019 0.005 10 	126 chronic TVS 0.75 250 0.011 0.5 	Chromium III Chromium VI Copper Iron Iron Lead Lead Manganese Mercury Molybdenum Nickel Nickel Selenium	5.0(T) 50(T) TVS TVS TVS 50(T) TVS TVS TVS	TVS TVS TVS WS 1000(T) TVS 244 0.01(t) 150(T) TVS 100(T) TVS
Temporary Mo temperature(D condition Expiration Date *Zinc(acute) = effect ratio). Expiration date *Zinc(chronic) water effect rat	odification(s): M/MWAT) = current e of 6/30/2019 TVS x (times) the FWER (final water e of 12/31/20. = TVS x (times) the FWER (final tio).	E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	 (mg/L) acute TVS 0.019 0.005 10 	126 chronic TVS 0.75 250 0.011 0.5 WS	Chromium III Chromium VI Copper Iron Iron Lead Lead Manganese Mercury Molybdenum Nickel Nickel	5.0(T) 50(T) TVS TVS TVS 50(T) TVS TVS TVS 	TVS TVS WS 1000(T) TVS 244 0.01(t) 150(T) TVS 100(T)
Temporary Mo temperature(D condition Expiration Date *Zinc(acute) = effect ratio). Expiration date *Zinc(chronic) water effect rat	odification(s): M/MWAT) = current e of 6/30/2019 TVS x (times) the FWER (final water e of 12/31/20. = TVS x (times) the FWER (final tio).	E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	 (mg/L) acute TVS 0.019 0.005 10 	126 chronic TVS 0.75 250 0.011 0.5 WS	Chromium III Chromium VI Copper Iron Iron Lead Lead Manganese Mercury Molybdenum Nickel Nickel Selenium	5.0(T) 50(T) TVS TVS TVS 50(T) TVS TVS TVS	TVS TVS TVS WS 1000(T) TVS 244 0.01(t) 150(T) TVS 100(T) TVS
Temporary Mo temperature(D condition Expiration Date *Zinc(acute) = effect ratio). Expiration date *Zinc(chronic) water effect rat	odification(s): M/MWAT) = current e of 6/30/2019 TVS x (times) the FWER (final water e of 12/31/20. = TVS x (times) the FWER (final tio).	E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	 (mg/L) acute TVS 0.019 0.005 10 	126 chronic TVS 0.75 250 0.011 0.5 WS	Chromium III Chromium VI Copper Iron Lead Lead Manganese Mercury Molybdenum Nickel Nickel Selenium Silver	5.0(T) 50(T) TVS TVS TVS 50(T) TVS TVS TVS TVS TVS	TVS TVS TVS WS 1000(T) TVS 244 0.01(t) 150(T) TVS 100(T) TVS TVS

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

COSPCL15	Classifications	Physical and	Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1*	Temperature °C	WS-II	WS-II	Aluminum		
	Recreation E		acute	chronic	Arsenic	340	0.02(T)
	Water Supply	D.O. (mg/L)		5.0	Beryllium		
Qualifiers:		рН	6.5 - 9.0		Cadmium	TVS	TVS
Other:		chlorophyll a (mg/m2)			Cadmium	5.0(T)	
Temporary M	odification(s):	E. Coli (per 100 mL)		126	Chromium III	50(T)	TVS
Arsenic(chron		Inorgani	c (mg/L)		Chromium VI	TVS	TVS
Expiration Dat	e of 12/31/2021		acute	chronic	Copper	TVS	TVS
	0M/MWAT) = current	Ammonia	TVS	TVS	Iron		WS
condition Expiration Dat	e of 6/30/2019	Boron		0.75	Iron		1000(T)
		Chloride		250	Lead	TVS	TVS
	: Aquatic life warm 1 goal qualifier. TVS x (times) the FWER (final water	Chlorine	0.019	0.011	Lead	50(T)	
effect ratio).		Cyanide	0.005		Manganese	TVS	TVS
	e of 12/31/20. = TVS x (times) the FWER (final	Nitrate	10		Manganese		WS
water effect ra	tio).	Nitrite		0.5	Mercury		0.01(t)
=xpiration dat	e of 12/31/20.	Phosphorus			Molybdenum		150(T)
		Sulfate		WS	Nickel	TVS	TVS
		Sulfide		0.002	Nickel		100(T)
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium		
					Zinc	TVSx1.57*	TVSx1.57*

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

COSPBO07B	Classifications	Physical and	Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Aluminum		
	Recreation E		acute	chronic	Arsenic	340	0.02-10(T) ^A
	Water Supply	D.O. (mg/L)		5.0	Beryllium		
Qualifiers:		рН	6.5 - 9.0		Cadmium	TVS	TVS
Other:		chlorophyll a (mg/m2)			Cadmium	5.0(T)	
Temporary M	odification(s):	E. Coli (per 100 mL)		126	Chromium III	50(T)	TVS
Arsenic(chron	<u>ic) = hybrid</u>	Inorgan	ic (mg/L)		Chromium VI	TVS	TVS
Expiration Dat	te of 12/31/2021		acute	chronic	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron		WS
		Boron		0.75	Iron		1000(T)
		Chloride		250	Lead	TVS	TVS
		Chlorine	0.019	0.011	Lead	50(T)	
		Cyanide	0.005		Manganese	TVS	TVS
		Nitrate	10		Manganese		WS
		Nitrite		0.5	Mercury		0.01(t)
		Phosphorus			Molybdenum		150(T)
		Sulfate		WS	Nickel	TVS	TVS
		Sulfide		0.002	Nickel		100(T)
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium		
					Zinc	TVS	TVS

EXHIBIT 6 PEABODY SAGE CREEK MINING COMPANY AND SENECA COAL COMPANY

DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Water Quality Control Commission

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

5 CCR 1002-33

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33.6 TABLES

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(4) <u>Assessment Criteria</u>

The following criteria shall be used when assessing whether a specified waterbody is in attainment of the specified standard.

(c)(a) Yampa River Segment 13b: <u>Standards and Iron</u> Assessment Thresholds and Locations for Iron and Selenium

Iron Standards:

Middle Creek-

March-June, Fe(ch) = 2090(Trec)Iron(chronic)=2090(T), median of all data July-February, Fe(ch) = 1000 (Trec)Iron(chronic)=1000(T)

Foidel Creek,: Fe(ch) = 1000(Trec)Iron(chronic)=1000(T), median of all data

Iron_Assessment ILocations:

- Middle Creek Site G-MC-2/Site 29: located at N40°-23'-48.3"<u>N</u>, W106°-58' 47.0"<u>W.</u>
- Foidel Creek Site 14: located at N40°-33'-48.6"<u>N</u>, W107°-08'-63.5"W.
- Foidel Creek Site 8: located at N40°-21'-55.7"<u>N</u>, W107°-02'-43.6"<u>W.</u>
- Foidel Creek Site 900: located at N40°-23'-24.7"N, W106°-59'-40.9"W.

Selenium Standards:

<u>Selenium(chronic)=9.5 mg/kg dry weight whole body. See section 33.6(4)(h) for fish-</u> tissue assessment method. Selenium Assessment Locations:

Foidel Creek Site FOC-1, located at 40°21'55.69"N, 107°2'43.57"W.

(a)(b) Yampa River Segment 13d, Dry Creek: Iron-Standards and Assessment Thresholds and Locations for Iron and Selenium

Iron Standards:

Mar-Apr, Fe(ch) = 3040(Trec), snowmelt season median values

May-Feb, Fe(ch) = 1110(Trec) , no-snowmelt season median values

Dry Creek, Watering Trough Gulch, and 005 Gulch: Iron(chronic)= 1000(T)

Hubberson Gulch March-June, Iron(chronic)=2750(T) July-February, Iron(chronic)=1000(T)

Iron_Assessment ILocations:

- Seneca II-W Stream Site 7 on Hubberson Gulch (WSH7): located in the middle reaches of Hubberson GulchDry Creek Site G-DC-2/WSD5, located at 40°25'18.50"N, 107°15'41.80"W.
- Watering Trough Gulch Site G-WTG-2, located at 40°23'32.38"N, 107°16'24.35"W.
- 005 Gulch Site G-05-2, located at 40°24'26.94"N, 107°15'56.67"W.
- <u>Hubberson Gulch Site G-HG-2/WSHF1, located at 40°23'31.50"N,</u> <u>107°16'20.40"W.</u>
- Seneca II-W Flume Site 1 on Hubberson Gulch (WSHF1): located on Hubberson Gulch just upstream of its confluence with Dry Creek
- Seneca II-W Stream Site 5 on Dry Creek (WSD5): located in the middle reaches of Dry CreekSelenium Standards:

<u>Selenium(chronic)=9.5 mg/kg dry weight whole body. See section 33.6(4)(h) for fish-</u> tissue assessment method.

Selenium Assessment Locations:

- Dry Creek Site G-DC-1, located at 40°23'45.2"N, 107°16'19.5"W.
- Dry Creek Site G-DC-2/WSD5, located at 40°25'18.50"N, 107°15'41.80"W.
- (b)(c) Yampa River Segment 13e, Sage Creek: Iron Standards and Assessment Thresholds and Locations for Iron and Selenium

Iron Standards:

Upper Sage Creek: Fe(ch)Iron(chronic) -=-1250(Tree), median of all data

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

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

Iron Assessment ILocations:

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

Fe(ch) = 1000(Trec), median of all data

Assessment locations:

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

Selenium Standards:

<u>Selenium(chronic)=9.5 mg/kg dry weight whole body. See section 33.6(4)(h) for fish-</u> tissue assessment method.

Selenium Assessment Locations:

- Sage Creek Site G-SC-3, located at 40°26'28.8"N, 107°11'58.7"W.
- (d) Yampa River Segment 13g: Standards and Assessment Locations for Selenium

Selenium Standards:

<u>Selenium(chronic)=9.5 mg/kg dry weight whole body. See section 33.6(4)(h) for fish-</u> tissue assessment method.

Selenium Assessment Locations:

- Bond Creek Site G-BC-2, located at 40°24'50.6"N, 107°01'58.0"W.
- Cow Camp Creek Site G-CC-2/SSC10, located at 40°23'51.7"N, 107°01'13.3"W.
- (e) Yampa River Segment 13h: Standards and Assessment Locations for Selenium

Selenium Standards:

<u>Lower Dry Creek and tributaries other than Temple Gulch:</u> <u>March-July: Selenium(acute/chronic)=91.3 / 60.0 µg/L</u> <u>August-February: Selenium(acute/chronic)=TVS / 6.6 µg/L</u>

<u>Temple Gulch:</u> <u>March-July: Selenium(acute/chronic)=136.5 / 116.2 µg/L</u> August-February: Selenium(acute/chronic)=TVS / TVS µg/L

Selenium Assessment Locations

Dry Creek Site G-DC-3/HGSD1, located at 40°27'26.0"N, 107°15'06.6"W.

- Dry Creek Site G-DC-4, located at 40°28'57.9"N, 107°14'21.1"W.
- Temple Gulch Site G-TG-1, located at 40°27'19.0"N, 107°15'45.0"W.
- (f) Yampa River Segment 13i: Standards and Assessment Locations for Iron and Selenium

Iron Standards

<u>Grassy Creek:</u> <u>March-June: Iron(chronic)=1410(T)</u> July-February: Iron(chronic)=1000(T)

<u>Little Grassy Creek:</u> <u>March-June: Iron(chronic)=2000(T)</u> July-February: Iron(chronic)=1000(T)

Iron Assessment Locations

- Grassy Creek Site G-GC-1A/YSG6, located at 40°23'11.09"N, 107°9'13.31"W.
- Little Grassy Creek Site G-LGC-1A/SSLG5, located at 40°24'53.31"N, 107°07'37.96"W.

Selenium Standards:

<u>Selenium(chronic)=9.5 mg/kg dry weight whole body. See section 33.6(4)(h) for fish-</u> tissue assessment method.

Selenium Assessment Locations

- Grassy Creek Site G-GC-2/SSG2, located at 40°26'44.5"N, 107°08'38.4"W.
- (g) Yampa River Segment 13j: Standards and Assessment Locations for Selenium

Selenium Standards:

Lower Grassy Creek:

<u>March-July: Selenium(acute/chronic)=TVS / 6.25 μg/L</u> August-February: Selenium(acute/chronic)=TVS / TVS μg/L

Annand Draw:

<u>March-July: Selenium(acute/chronic)=25.2 / 19.8 μg/L</u> August-February: Selenium(acute/chronic)=TVS / TVS μg/L

Scotchmans Gulch:

<u>March-July: Selenium(acute/chronic)=65.8 / 40.9 μg/L</u> August-February: Selenium(acute/chronic)=TVS / TVS μg/L

Selenium Assessment Locations

 Lower Grassy Creek Site G-GC-3/YSG5, located at 40°26'51.7"N, 107°08'42.8"W.

Lower Grassy Creek Site G-GC-4, located at 40°28'51.2"N, 107°09'04.4"W.

- Annand Draw Site G-AD-1A, located at 40°26'03.0"N, 107°09'23.5"W.
- Annand Draw Site G-AD-1/NPDES10, located at 40°24'35.4"N, 107°10'04.2"W.
- <u>Scotchmans Gulch Site G-SG-1/YSSG1, located at 40°25'56.9"N,</u> <u>107°10'02.3"W.</u>
- Scotchmans Gulch Site G-SG-1A, located at 40°26'34.80"N, 107°08'43.93"W.
- (h) Fish-Tissue Assessment Method and Permit Implementation for Selenium Whole Body <u>Tissue Standards, Yampa River Segments 13b, 13d, 13e, 13g, and 13i.</u>

The implementation of the chronic tissue-based standards will use a combination of water column and fish tissue data, using a water column trigger value of 8.8 µg/L, as follows:

- Compare the 85th percentile of water column concentrations to the trigger value.
 If the 85th percentile is lower than the trigger value, the standard is attained. If
 the 85th percentile is higher than the trigger value, proceed to assessment of fish
 tissue data.
- Compare the mean fish tissue concentrations (whole body) to the standard elements. If the mean fish tissue concentrations exceed the standard, then the standard is impaired.

For implementation in permitting, the following methods shall apply:

- For discharges that have reached a steady state (i.e., discharges of selenium that have existed at comparable flow and concentration more than 6 months), compare downstream mean fish tissue concentrations to the standard. If the mean fish tissue concentrations are significantly below the tissue-based standard, there is no reasonable potential for the discharge to cause or contribute to an exceedance of the fish tissue standard, and no WQBEL is necessary. Monitoring will be required to document continued steady-state conditions in the discharge.
- If the discharge has reasonable potential, effluent limitations will be required. If the 30-day average effluent concentrations exceed the trigger value, the discharger will be required to accelerate downstream fish tissue sampling. If the mean fish tissue concentrations at the first downstream site with fish exceed the standard, then the effluent limitation is exceeded.

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33.60 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 11, 2017 RULEMAKING; FINAL ACTION JANUARY 8, 2018; EFFECTIVE DATE JUNE 30, 2018

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

BASIS AND PURPOSE

Yampa River Segments 13b, 13d, 13e, 13g, 13h, 13i, and 13j: temporary modifications of the iron standards (Segments 13d and 13i, expire 12/31/2018) and the selenium standards (Segments 13b, 13d,

13e, 13g, 13i, expire 12/31/2018) were reviewed. The Commission deleted the iron and selenium temporary modifications on these segments, and adopted site-specific iron and selenium standards on these and additional segments of the Yampa River sub-basin based on evidence submitted by Peabody Sage Creek Mining Company and Seneca Coal Company (Peabody).

IRON

Peabody submitted sufficient data and justification to support ambient-based site-specific total recoverable iron standards for Yampa River Segments 13d and 13i. Data indicate that natural or irreversible conditions within the Yampa River Basin watershed are driving instream concentrations of total recoverable iron. The Commission adopted the following seasonal standards based on the 50th percentile of iron data:

Yampa River Segment 13d:

Dry Creek, Watering Trough Gulch, and 005 Gulch: Iron (chronic) = 1000 (T) µg/L

Hubberson Gulch: March-June: Iron (chronic) = 2750 (T) µg/L July-February: Iron (chronic) = 1000 (T) µg/L

Yampa River Segment 13i:

Grassy Creek: March-June: Iron (chronic) = 1410 (T) μg/L July-February: Iron (chronic) = 1000 (T) μg/L

Little Grassy Creek, March-June: Iron (chronic) = 2000 (T) µg/L July-February: Iron (chronic) = 1000 (T) µg/L

Evidence submitted by Peabody demonstrated that ambient iron concentrations were not inhibiting the attainment of the limited aquatic use; the aquatic life use on these segments is limited due to the lack of water and flow throughout much of the drainage. Therefore, based on analysis of the benthic macroinvertebrate community, ambient standards are protective of the highest attainable use in these segments.

The Commission specified assessment locations for the iron standards at section 33.6(4), to ensure that future assessment is consistent with the methods used to derive the standards.

The Commission removed the temporary modifications for iron of "current condition" that had previously been in place for Yampa River Segments 13d and 13i.

SELENIUM

Peabody submitted sufficient data and justification to support selenium site-specific standards for Yampa River Segments 13b, 13d, 13e, 13g, 13h, 13i, and 13j.

The Yampa River sub-basin has limited water throughout many of the drainages, which affects the ability of these streams to support robust aquatic populations or for fish communities to develop and persist from year-to-year. The variability in available flow is one of the determining characteristics for evaluation of the potential for these streams to provide suitable habitat, especially in the upper extent of the segments. Concentrations of selenium in fish (where present) and invertebrate tissues are low in upper reaches, with increasing concentrations in the lower reaches, largely in response to the influx of groundwater with naturally occurring selenium from underlying geology, especially from un-mined tributaries.

In July 2016, the EPA released updated aquatic life ambient water quality criteria for selenium. In addition to the updated chronic water column criteria, the new criteria document included criteria for fish tissue, consisting of egg/ovary and whole body/muscle elements. Due to the bioaccumulative properties of selenium, EPA set the fish tissue criteria to take precedence over the water column criteria, and set the egg/ovary element to take precedence over the whole body/muscle element. In September 2016, EPA released draft support documents to accompany the selenium criteria; the support documents have not yet been finalized.

Peabody evaluated the available final and draft information from the EPA, and based on these documents proposed site-specific selenium standards for multiple Yampa River Segments.

The Commission adopted site-specific chronic selenium standards on segments 13b, 13d, 13e, 13g, and 13i of 9.5 mg/kg dry weight whole body tissue. These standards are based on a targeted recalculation of the EPA 304(a) fish tissue criteria, after removing the most sensitive species in the EPA database, white sturgeon, which is not found in the Colorado basin and is not a surrogate for another species. The Commission did not adopt egg ovary standards on segments 13b, 13d, 13e, 13g, or 13i due to site-specific considerations, namely the small population of fish in these reaches, as well as the often limited number of gravid fish from which to collect egg samples. Additionally, values based on muscle tissue or muscle plugs were not considered as the fish in these segments are too small for a muscle plug to be taken.

Recognizing the practical difficulties of collecting fish tissue data, the implementation of the chronic tissue-based standards will use a combination of water column and fish tissue data, using a trigger value of 8.8 μ g/L, as follows:

- Assessment
 - Compare the 85th percentile of water column concentrations to the trigger value. If the 85th percentile is lower than the trigger value, the standard is attained. If the 85th percentile is higher than the trigger value, proceed to assessment of fish tissue data.
 - Compare the mean fish tissue concentrations (whole body) to the standard elements. If the mean fish tissue concentrations exceed the standard, then the standard is impaired.
- Permitting
 - For discharges that have reached a steady state (i.e., discharges of selenium that have existed at comparable flow and concentration more than 6 months), compare downstream mean fish tissue concentrations to the standard. If the mean fish tissue concentrations are significantly below the tissue-based standard, there is no reasonable potential for the discharge to cause or contribute to an exceedance of the fish tissue standard, and no WQBEL is necessary. Monitoring will be required to document continued steady-state conditions in the discharge.
 - If the discharge has reasonable potential, effluent limitations will be required. If the 30day average effluent concentrations exceed the trigger value, the discharger will be required to accelerate downstream fish tissue sampling. If the mean fish tissue concentrations at the first downstream site with fish exceed the standard, then the effluent limitation is exceeded.

The water column trigger value of $8.8 \ \mu g/L$ was chosen based on re-calculations using Colorado-specific data from the National EPA database. This value is more appropriate than the national lotic criterion or existing table value standard, given that Colorado has specific selenium issues not present in other states.

The Commission adopted site-specific ambient-based selenium standards on segments 13h and 13j. Data indicate that natural or irreversible conditions within the Yampa Basin watershed are driving instream concentrations of selenium. The Commission adopted the following standards:

Yampa River Segment 13h:

Lower Dry Creek and tributaries other than Temple Gulch: March-July: Selenium (acute/chronic) = 91.3 / 60.0 µg/L August-February: Selenium (acute/chronic) = TVS / 6.6 µg/L Temple Gulch: March-July: Selenium (acute/chronic) = 136.5 / 116.2 µg/L August-February: Selenium (acute/chronic) = TVS / TVS µg/L Yampa River Segment 13j: Lower Grassy Creek: March-July: Selenium (acute/chronic) = TVS / 6.25 µg/L August-February: Selenium (acute/chronic) = TVS / TVS µg/L Annand Draw: March-July: Selenium (acute/chronic) = 25.2 / 19.8 µg/L August-February: Selenium (acute/chronic) = TVS / TVS µg/L Scotchmans Gulch: March-July: Selenium (acute/chronic) = 65.8 / 40.9 µg/L August-February: Selenium (acute/chronic) = TVS / TVS µg/L

The Commission specified assessment locations for the selenium standards at section 33.6(4), to ensure that future assessment is consistent with the methods used to derive the standards.

The Commission removed the temporary modifications for selenium of "current condition" that had previously been in place for Yampa River Segments 13b, 13d, 13e, 13g, and 13i. The Commission recognizes that potential changes may be warranted to segment boundaries to fully address selenium issues in the Yampa River Basin.

TYPOGRAPHICAL AND OTHER CORRECTIONS

Finally, the Commission made edits to improve clarity and correct typographical errors in section 33.6(4) and the corresponding tables for Yampa River sub-basin segments, including:

- The assessment criteria for Yampa River segment 13b was moved from 33.6(4)(c) to 33.6(4)(a) to improve clarity in assessing, as multiple additional assessment criteria were added to this subsection 33.6(4). This resulted in shifting the subsections of the existing assessment information for Yampa River segments 13d and 13e.
- Certain abbreviations in subsection 33.6(4) were updated to match formatting changes adopted in January 2016, i.e., Fe was changed to Iron, ch was changed to chronic, Trec was changed to T, months were spelled out instead of abbreviated.
- Certain formatting changes were made in subsection 33.6(4) to improve readability of the section given the addition of information for assessment purposes, including rearranging and adding clarifying information for the iron standards and assessment locations for Yampa River Segment 13e. No substantive changes were made to the iron standards and iron assessment locations for segment 13e.
- The reference to section 33.6(4) for assessment locations for iron in the table for Yampa River Segment 13h was removed, as there is no assessment criteria for iron for this segment.

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

WATER QUALITY CONTROL COMMISSION

5 CCR 1002-33

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

APPENDIX 33-1 Stream Classifications and Water Quality Standards Tables

Effective 06/30/20172018

COUCYA13B	I3B Classifications Physical and Biological Metals (ug/L)					Metals (ug/L)			
Designation	Agriculture				DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1		Temperature °C		WS-II	WS-II	Aluminum		
	Recreation E				acute	chronic	Arsenic	340	7.6(T)
ualifiers:			D.O. (mg/L)			6.0	Beryllium		
Other:			D.O. (spawning)			7.0	Cadmium	TVS(tr)	TVS
emporary M	odification(s):		рН		6.5 - 9.0		Chromium III	TVS	TVS
	onic) = current		chlorophyll a (mg/m ²)			150	Chromium III		100(T)
onditions*			E. Coli (per 100 mL)			126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2018							Copper	TVS	TVS
Iron(chronic) assessment lo	= See section 33.6(4) for	iron	Ir	norganic (mg/	L)		Iron		1000(T)*
	= 2,090(T) ug/L for Middle	e Creek.			acute	chronic	Iron	3/1 - 6/30	2090(T)*
	3.6(4) for iron assessment elenium = for Foidel and N		Ammonia		TVS	TVS	Lead	TVS	TVS
Creeks.			Boron			0.75	Manganese	TVS	TVS
	onic) = 9.5 mg/kg dry wei tion 33.6(4) for selenium		Chloride				Mercury		0.01(t)
	fish-tissue assessment m		Chlorine		0.019	0.011	Molybdenum		160(T)
			Cyanide		0.005		Nickel	TVS	TVS
			Nitrate		100		Selenium	TVS	TVSTissue*
			Nitrite			0.05	Silver	TVS	TVS(tr)
			Phosphorus			0.11	Uranium		
			Sulfate				Zinc	TVS	TVS
			Sulfide			0.002			
Creek. All tribu	utaries to Trout Creek from		Spruce Hill Ditch (approxi		eet north of	where Cour		es Trout Creek) to its conflu prosses Trout Creek) to Co	
Creek. All tribu except for spe			Spruce Hill Ditch (approxi ate of Spruce Hill Ditch (a		eet north of 500 feet no	where Cour			
Creek. All tribu except for spe	utaries to Trout Creek from cific listings in 13b.		Spruce Hill Ditch (approxi ate of Spruce Hill Ditch (a	pproximately 2	eet north of 500 feet no	where Cour		crosses Trout Creek) to Co	
Creek. All tribu except for spe COUCYA13C Designation	utaries to Trout Creek fron cific listings in 13b. Classifications		Spruce Hill Ditch (approxi ate of Spruce Hill Ditch (a	pproximately 2	eet north of 500 feet no	where Cour rth of where		crosses Trout Creek) to Co Metals (ug/L)	unty Road 179
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Creek. All tribu except for spe COUCYA13C Designation	utaries to Trout Creek fror cific listings in 13b. Classifications Agriculture Aq Life Cold 1 Recreation E		Spruce Hill Ditch (approxi ate of Spruce Hill Ditch (a Physic	pproximately 2	ieet north of ,500 feet no ical DM CS-II	where Cour rth of where MWAT CS-II	County Road 27 of	crosses Trout Creek) to Co Metals (ug/L) acute 	unty Road 179 chronic
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Creek. All tribu except for spe COUCYA13C Designation Reviewable	utaries to Trout Creek fror cific listings in 13b. Classifications Agriculture Aq Life Cold 1 Recreation E	m the headga	Spruce Hill Ditch (approxi ate of Spruce Hill Ditch (a Physic Temperature °C D.O. (mg/L)	pproximately 2	eet north of ,500 feet no ical DM CS-II acute 	where Cour rth of where MWAT CS-II chronic 6.0	County Road 27 of Aluminum Arsenic Beryllium	crosses Trout Creek) to Co Metals (ug/L) acute 340 	unty Road 179 chronic 7.6(T)*
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Creek. All tribu xcept for spe COUCYA13C Resignation Reviewable Rualifiers: Other: Comporary M resenic(chroni xpiration Dat Nitrate(acute) Arsenic(chror Chromium III	utaries to Trout Creek from cific listings in 13b. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply 6/ ² odification(s): ic) = hybrid e of 12/31/2021) = 10 mg/L from 6/1 - 2/22 hic) = 0.02(T) ug/L from 6/ (acute) = 50(T) ug/L from	m the headga 1 - 2/29 6/1 - 2/29 /1 - 2/29 6/1 - 2/29	Spruce Hill Ditch (approxiate of Spruce Hill Ditch (approxiate of Spruce Hill Ditch (a) Physic Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. Coli (per 100 mL) Ir Ammonia Boron Chloride Chlorine Cyanide Nitrate	pproximately 2 al and Biolog	eet north of ,500 feet no ical DM CS-II acute 6.5 - 9.0 6.5 - 9.0 CU CU TVS TVS 0.019 0.005 100*	where Cour rth of where MWAT CS-II chronic 6.0 7.0 150 126 0.01 TVS 0.75 250 0.011 1.50 0.011 	County Road 27 of Aluminum Arsenic Beryllium Cadmium Chromium III Chromium III Chromium VI Copper Iron Iron Lead Manganese Mercury Molybdenum Nickel Selenium	Metals (ug/L) acute 340 TVS(tr) TVS* TVS TVS 6/1 - 2/29 TVS	unty Road 179 chronic 7.6(T)* TVS TVS 100(T) TVS 1000(T) TVS 1000(T) TVS 0.01(t) 160(T) TVS
Creek. All tribu xcept for spe COUCYA13C Designation Reviewable Qualifiers: Other: Temporary M trsenic(chroni xpiration Dat Nitrate(acute) Arsenic(chror Chromium III	utaries to Trout Creek from cific listings in 13b. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply 6/ ² odification(s): ic) = hybrid e of 12/31/2021) = 10 mg/L from 6/1 - 2/22 hic) = 0.02(T) ug/L from 6/ (acute) = 50(T) ug/L from	m the headga 1 - 2/29 6/1 - 2/29 /1 - 2/29 6/1 - 2/29	Spruce Hill Ditch (approxiate of Spruce Hill Ditch (approxiate of Spruce Hill Ditch (approxiate of Spruce Hill Ditch (approximate)) Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Ir Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	pproximately 2 al and Biolog	eet north of ,500 feet no cal DM CS-II acute 6.5 - 9.0 6.5 - 9.0 CV CV CV CV CV CV CV CV CV CV CV CV CV	where Cour rth of where CS-II CS-II Chronic 6.0 7.0 150 126 126 126 0.0 126 0.01 126 0.011	County Road 27 of Aluminum Arsenic Beryllium Cadmium Chromium III Chromium III Chromium VI Copper Iron Iron Lead Manganese Mercury Molybdenum Nickel Selenium Silver	Metals (ug/L) acute 340 TVS(tr) TVS* TVS TVS 6/1 - 2/29 TVS TVS	unty Road 179 chronic 7.6(T)* TVS TVS 100(T) TVS 1000(T) TVS WS 1000(T) TVS 0.01(t) 160(T) TVS TVS TVS
Creek. All tribu except for spe COUCYA13C Designation Reviewable Qualifiers: Other: Temporary M Arsenic(chroni Expiration Dat Nitrate(acute) Arsenic(chror Chromium III	utaries to Trout Creek from cific listings in 13b. Classifications Agriculture Aq Life Cold 1 Recreation E Water Supply 6/ ² odification(s): ic) = hybrid e of 12/31/2021) = 10 mg/L from 6/1 - 2/22 hic) = 0.02(T) ug/L from 6/ (acute) = 50(T) ug/L from	m the headga 1 - 2/29 6/1 - 2/29 /1 - 2/29 6/1 - 2/29	Spruce Hill Ditch (approxiate of Spruce Hill Ditch (approxiate of Spruce Hill Ditch (a) Physic Temperature °C D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m²) E. Coli (per 100 mL) Ir Ammonia Boron Chloride Chlorine Cyanide Nitrate	pproximately 2 al and Biolog	eet north of ,500 feet no ical DM CS-II acute 6.5 - 9.0 6.5 - 9.0 CU TVS TVS 0.019 0.005 100*	where Cour rth of where MWAT CS-II chronic 6.0 7.0 150 126 0.01 TVS 0.75 250 0.011 1.50 0.011 	County Road 27 of Aluminum Arsenic Beryllium Cadmium Chromium III Chromium III Chromium VI Copper Iron Iron Lead Manganese Mercury Molybdenum Nickel Selenium	Metals (ug/L) acute 340 TVS(tr) TVS* TVS TVS 6/1 - 2/29 TVS	unty Road 179 chronic 7.6(T)* TVS TVS 100(T) TVS 1000(T) TVS 1000(T) TVS 0.01(t) 160(T) TVS

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130. Mainsten	n of Dry Creek, including all tributaries	and wetlands, from the source to ju	st above the co	nfluence with	n Temple Gulch.			
COUCYA13D	Classifications	Physical and Bio	logical			Metals (ug	j/L)	
Designation	Agriculture		DM	MWAT		i	acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Aluminum			
	Recreation E		acute	chronic	Arsenic		340	100(T)
Qualifiers:		D.O. (mg/L)		5.0	Beryllium			
Other:		рН	6.5 - 9.0		Cadmium		TVS	TVS
Temporary M	odification(s):	chlorophyll a (mg/m ²)		150	Chromium III		TVS	TVS
	- current condition 3/1 - 4/30	E. Coli (per 100 mL)		126	Chromium III			100(T)
Expiration Dat	e of 12/31/2018	Inorganic (ng/L)		Chromium VI		TVS	TVS
Selenium(chronic) = current conditions			acute	chronic	Copper		TVS	TVS
Expiration Dat	e of 12/31/2018	Ammonia	TVS	TVS	Iron	<u>57</u> /1 - 2/29		1110<u>1000</u>(T)*
lron(chronic).	<u>7/1-2/29</u> = <u>1,000(T) ug/L.</u> See section	Boron		0.75	Iron	3/1 - 4 <u>6</u> /30		3040<u>1000</u>(T)
33.6(4) for iror	assessment locations.	Chloride			<u>Iron</u>	<u>3/1 - 6/30</u>	===	<u>2750(T)*</u>
	<u>3/1-6/30</u> = <u>1,000(T) ug/L on Dry</u> ng Trough Gulch, and 005 Gulch. See	Chlorine	0.019	0.011	Lead		TVS	TVS
) for iron assessment locations. 3/1-6/30 = 2750(T) ug/L on	Cyanide	0.005		Manganese		TVS	TVS
	<u>Ilch. See section 33.6(4) for iron</u>	Nitrate	100		Mercury			0.01(t)
assessment lo	cations onic) = 9.5 mg/kg dry weight whole	Nitrite		0.05	Molybdenum			160(T)
body. See sec	tion 33.6(4) for selenium assessment	Phosphorus		0.17	Nickel		TVS	TVS
locations and f	fish-tissue assessment method.	Sulfate			Selenium		TVS	TVSTissue*
		Sulfide		0.002	Silver		TVS	TVS
					Uranium			
					Zinc		TVS	TVS
120 Mainston	n of Sage Creek, including all tributarie	s and wotlands, from its sources to	the confluence	with the Ver	nna Piwar			
	Classifications	Physical and Bio		with the ran				
Designation	A 1 1/					Metals (ug	J/L)	
	Agriculture		DM	MWAT		Metals (ug	g/L) acute	chronic
UP	Agriculture Aq Life Warm 2	Temperature °C	•	MWAT WS-II	Aluminum	Metals (ug		chronic
UP		Temperature °C	DM		Aluminum Arsenic	Metals (ug	acute	
UP Qualifiers:	Aq Life Warm 2	Temperature °C D.O. (mg/L)	DM WS-II	WS-II	-	Metals (ug	acute	
-	Aq Life Warm 2		DM WS-II acute	WS-II chronic	Arsenic	Metals (ug	acute 340	 100(T)
Qualifiers: Other:	Aq Life Warm 2 Recreation N	D.O. (mg/L)	DM WS-II acute	WS-II chronic 5.0	Arsenic Beryllium	Metals (ug	acute 340 	 100(T)
Qualifiers: Other: Temporary M	Aq Life Warm 2 Recreation N odification(s):	D.O. (mg/L) pH	DM WS-II acute 6.5 - 9.0	WS-II chronic 5.0 	Arsenic Beryllium Cadmium	Metals (ug	acute 340 TVS	 100(T) TVS
Qualifiers: Other: Temporary M Selenium(chro	Aq Life Warm 2 Recreation N	D.O. (mg/L) pH chlorophyll a (mg/m²)	DM WS-II acute 6.5 - 9.0 	WS-II chronic 5.0 	Arsenic Beryllium Cadmium Chromium III	Metals (ug	acute 340 TVS TVS	 100(T) TVS TVS
Qualifiers: Other: Temporary M Selenium(chro Expiration Dat	Aq Life Warm 2 Recreation N odification(s): pnic) = current conditions e of 12/31/2018	D.O. (mg/L) pH chlorophyll a (mg/m²) E. Coli (per 100 mL)	DM WS-II acute 6.5 - 9.0 	WS-II chronic 5.0 	Arsenic Beryllium Cadmium Chromium III Chromium III	Metals (ug	acute 340 TVS TVS 	 100(T) TVS TVS 100(T)
Qualifiers: Other: Temporary M Selenium(chro Expiration Dat *Iron(chronic)	Aq Life Warm 2 Recreation N odification(s): onic) = current conditions	D.O. (mg/L) pH chlorophyll a (mg/m²) E. Coli (per 100 mL)	DM WS-II acute 6.5 - 9.0 mg/L)	WS-II chronic 5.0 630	Arsenic Beryllium Cadmium Chromium III Chromium III Chromium VI	Metals (ug	acute 340 TVS TVS TVS	 100(T) TVS TVS 100(T) TVS
Qualifiers: Other: Temporary M Selenium(chro Expiration Dat *Iron(chronic) Creek. See se locations.	Aq Life Warm 2 Recreation N odification(s): nic) = current conditions e of 12/31/2018 = 1,000(T) ug/L on Lower Sage ection 33.6(4) for iron assessment	D.O. (mg/L) pH chlorophyll a (mg/m²) E. Coli (per 100 mL) Inorganic (DM WS-II acute 6.5 - 9.0 ng/L) acute	WS-II chronic 5.0 630 chronic	Arsenic Beryllium Cadmium Chromium III Chromium VI Copper	Metals (ug	acute 340 TVS TVS TVS TVS	 100(T) TVS TVS 100(T) TVS TVS
Qualifiers: Other: Temporary M Selenium(chro Expiration Dat *Iron(chronic) Creek. See se locations. *Iron(chronic) Creek. Break	Aq Life Warm 2 Recreation N odification(s): mic) = current conditions e of 12/31/2018 = 1,000(T) ug/L on Lower Sage action 33.6(4) for iron assessment = 1,250(T) ug/L on Upper Sage between Upper and Lower Sage	D.O. (mg/L) pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorganic (Ammonia	DM WS-II acute 6.5 - 9.0 mg/L) acute TVS	WS-II chronic 5.0 630 chronic TVS	Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron	Metals (ug	acute 340 TVS TVS TVS TVS TVS	 100(T) TVS TVS 100(T) TVS TVS 1000(T)*
Qualifiers: Other: Temporary M Selenium(chro Expiration Dat *Iron(chronic) Creek. See se locations. *Iron(chronic) Creek. Break Creek is the w	Aq Life Warm 2 Recreation N odification(s): onic) = current conditions e of 12/31/2018 = 1,000(T) ug/L on Lower Sage ection 33.6(4) for iron assessment = 1,250(T) ug/L on Upper Sage	D.O. (mg/L) pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorganic (Ammonia Boron	DM WS-II acute 6.5 - 9.0 mg/L) acute TVS 	WS-II chronic 5.0 630 chronic TVS 0.75	Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron	Metals (ug	acute 340 TVS TVS TVS TVS TVS	 100(T) TVS TVS 100(T) TVS TVS 1000(T)* 1250(T)*
Qualifiers: Other: Temporary Me Selenium(chro Expiration Dat *Iron(chronic) Creek. See se locations. *Iron(chronic) Creek. Break Creek is the w See section 33 *Selenium(chr	Aq Life Warm 2 Recreation N odification(s): onic) = current conditions e of 12/31/2018 = 1,000(T) ug/L on Lower Sage ection 33.6(4) for iron assessment = 1,250(T) ug/L on Upper Sage between Upper and Lower Sage est border of Section 18, T5N, R87W. 3.6(4) for iron assessment locations. onic) = 9.5 mg/kg dry weight whole	D.O. (mg/L) pH chlorophyll a (mg/m²) E. Coli (per 100 mL) Inorganic (Ammonia Boron Chloride	DM WS-II acute 6.5 - 9.0 mg/L) acute TVS 	WS-II chronic 5.0 630 chronic TVS 0.75	Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron Lead	Metals (ug	acute 340 TVS TVS TVS TVS TVS	 100(T) TVS TVS 100(T) TVS TVS 1000(T)* 1250(T)* TVS
Qualifiers: Other: Temporary M Selenium(chro Expiration Dat *Iron(chronic) Creek. See set locations. *Iron(chronic) Creek is the w See section 33 *Selenium(chr body. See sec	Aq Life Warm 2 Recreation N edification(s): mic) = current conditions e of 12/31/2018 = 1,000(T) ug/L on Lower Sage ection 33.6(4) for iron assessment = 1,250(T) ug/L on Upper Sage between Upper and Lower Sage est border of Section 18, T5N, R87W. 3.6(4) for iron assessment locations.	D.O. (mg/L) pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorganic (Ammonia Boron Chloride Chlorine	DM WS-II acute 6.5 - 9.0 mg/L) acute TVS TVS 0.019	WS-II chronic 5.0 630 chronic TVS 0.75 0.011	Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Manganese	Metals (ug	acute 340 TVS TVS TVS TVS TVS TVS TVS	 100(T) TVS TVS 100(T) TVS 1000(T)* 1250(T)* TVS TVS
Qualifiers: Other: Temporary M Selenium(chro Expiration Dat *Iron(chronic) Creek. See set locations. *Iron(chronic) Creek is the w See section 33 *Selenium(chr body. See sec	Aq Life Warm 2 Recreation N odification(s): mic) = current conditions e of 12/31/2018 = 1,000(T) ug/L on Lower Sage ection 33.6(4) for iron assessment = 1,250(T) ug/L on Upper Sage between Upper and Lower Sage est border of Section 18, T5N, R87W. 3.6(4) for iron assessment locations. onic) = 9.5 mg/kg dry weight whole tion 33.6(4) for selenium assessment	D.O. (mg/L) pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorganic (n Ammonia Boron Chloride Chlorine Cyanide	DM WS-II acute 6.5 - 9.0 mg/L) acute TVS 0.019 0.005	WS-II chronic 5.0 630 chronic TVS 0.75 0.011	Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Manganese Mercury	Metals (ug	acute 340 TVS TVS TVS TVS TVS TVS TVS TVS	 100(T) TVS TVS 100(T) TVS 1000(T)* 1250(T)* TVS TVS TVS 0.01(t)
Qualifiers: Other: Temporary M Selenium(chro Expiration Dat *Iron(chronic) Creek. See se locations. *Iron(chronic) Creek is the w See section 33 *Selenium(chr body. See sec	Aq Life Warm 2 Recreation N odification(s): mic) = current conditions e of 12/31/2018 = 1,000(T) ug/L on Lower Sage ection 33.6(4) for iron assessment = 1,250(T) ug/L on Upper Sage between Upper and Lower Sage est border of Section 18, T5N, R87W. 3.6(4) for iron assessment locations. onic) = 9.5 mg/kg dry weight whole tion 33.6(4) for selenium assessment	D.O. (mg/L) pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorganic (m Ammonia Boron Chloride Chlorine Cyanide Nitrate	DM WS-II acute 6.5 - 9.0 mg/L) acute TVS 0.019 0.005 100	WS-II chronic 5.0 630 chronic TVS 0.75 0.011	Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Manganese Mercury Molybdenum	Metals (ug	acute 340 TVS TVS TVS TVS TVS TVS TVS TVS 	 100(T) TVS TVS 100(T) TVS 1000(T)* 1250(T)* TVS TVS 0.01(t) 160(T)
Qualifiers: Other: Temporary M Selenium(chro Expiration Dat *Iron(chronic) Creek. See se locations. *Iron(chronic) Creek is the w See section 33 *Selenium(chr body. See sec	Aq Life Warm 2 Recreation N odification(s): mic) = current conditions e of 12/31/2018 = 1,000(T) ug/L on Lower Sage ection 33.6(4) for iron assessment = 1,250(T) ug/L on Upper Sage between Upper and Lower Sage est border of Section 18, T5N, R87W. 3.6(4) for iron assessment locations. onic) = 9.5 mg/kg dry weight whole tion 33.6(4) for selenium assessment	D.O. (mg/L) pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorganic (m Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	DM WS-II acute 6.5 - 9.0 ng/L) acute TVS 0.019 0.005 100	WS-II chronic 5.0 630 chronic Chronic 0.011 0.05	Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Manganese Mercury Molybdenum Nickel	Metals (ug	acute 340 TVS TVS TVS TVS TVS TVS TVS TVS	 100(T) TVS TVS 100(T) TVS 1000(T)* 1250(T)* TVS TVS 0.01(t) 160(T) TVS
Qualifiers: Other: Temporary M Selenium(chro Expiration Dat *Iron(chronic) Creek. See se locations. *Iron(chronic) Creek is the w See section 33 *Selenium(chr body. See sec	Aq Life Warm 2 Recreation N odification(s): mic) = current conditions e of 12/31/2018 = 1,000(T) ug/L on Lower Sage ection 33.6(4) for iron assessment = 1,250(T) ug/L on Upper Sage between Upper and Lower Sage est border of Section 18, T5N, R87W. 3.6(4) for iron assessment locations. onic) = 9.5 mg/kg dry weight whole tion 33.6(4) for selenium assessment	D.O. (mg/L) pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorganic (mg/m ²) E. Coli (per 100 mL) Inorganic (mg/m ²) Inorganic (mg/m ²) Inorgan	DM WS-II acute 6.5 - 9.0 mg/L) acute TVS 0.019 0.005 100 100	WS-II chronic 5.0 630 chronic Chronic 0.01 0.011 0.05 0.17	Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Manganese Mercury Nolybdenum Nickel Selenium	Metals (ug	acute 340 TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS	 100(T) TVS TVS 100(T) TVS 1000(T)* 1250(T)* TVS TVS 0.01(t) 160(T) TVS
Qualifiers: Other: Temporary M Selenium(chro Expiration Dat *Iron(chronic) Creek. See se locations. *Iron(chronic) Creek is the w See section 33 *Selenium(chr body. See sec	Aq Life Warm 2 Recreation N odification(s): mic) = current conditions e of 12/31/2018 = 1,000(T) ug/L on Lower Sage ection 33.6(4) for iron assessment = 1,250(T) ug/L on Upper Sage between Upper and Lower Sage est border of Section 18, T5N, R87W. 3.6(4) for iron assessment locations. onic) = 9.5 mg/kg dry weight whole tion 33.6(4) for selenium assessment	D.O. (mg/L) pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorganic (mg/m ²) Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	DM WS-II acute 6.5 - 9.0 mg/L) acute TVS 0.019 0.005 100 100	WS-II chronic 5.0 630 chronic Chronic 0.011 0.011 0.011 0.011 0.011 0.011	Arsenic Beryllium Cadmium Chromium III Chromium VI Chromium VI Copper Iron Iron Lead Manganese Mercury Molybdenum Nickel Selenium Silver	Metals (ug	acute 340 TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS	 100(T) TVS TVS 100(T) TVS 1000(T)* 1250(T)* TVS TVS 0.01(t) 160(T) TVS TVS
Qualifiers: Other: Temporary M Selenium(chro Expiration Dat *Iron(chronic) Creek. See set locations. *Iron(chronic) Creek is the w See section 33 *Selenium(chr body. See sec	Aq Life Warm 2 Recreation N odification(s): mic) = current conditions e of 12/31/2018 = 1,000(T) ug/L on Lower Sage ection 33.6(4) for iron assessment = 1,250(T) ug/L on Upper Sage between Upper and Lower Sage est border of Section 18, T5N, R87W. 3.6(4) for iron assessment locations. onic) = 9.5 mg/kg dry weight whole tion 33.6(4) for selenium assessment	D.O. (mg/L) pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorganic (mg/m ²) Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	DM WS-II acute 6.5 - 9.0 mg/L) acute TVS 0.019 0.005 100 100	WS-II chronic 5.0 630 chronic Chronic 0.011 0.011 0.011 0.011 0.011 0.011	Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Manganese Mercury Molybdenum Nickel Selenium Silver Uranium	Metals (ug	acute 340 TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS	 100(T) TVS TVS 100(T) TVS 1000(T)* 1250(T)* TVS 0.01(t) 160(T) TVS TVS <u>TVSTissue*</u> TVS
Qualifiers: Other: Temporary M Selenium(chro Expiration Dat *Iron(chronic) Creek. See se locations. *Iron(chronic) Creek is the w See section 33 *Selenium(chr body. See sec	Aq Life Warm 2 Recreation N odification(s): mic) = current conditions e of 12/31/2018 = 1,000(T) ug/L on Lower Sage ection 33.6(4) for iron assessment = 1,250(T) ug/L on Upper Sage between Upper and Lower Sage est border of Section 18, T5N, R87W. 3.6(4) for iron assessment locations. onic) = 9.5 mg/kg dry weight whole tion 33.6(4) for selenium assessment	D.O. (mg/L) pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorganic (mg/m ²) Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	DM WS-II acute 6.5 - 9.0 mg/L) acute TVS 0.019 0.005 100 100	WS-II chronic 5.0 630 chronic Chronic 0.011 0.011 0.011 0.011 0.011 0.011	Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Manganese Mercury Molybdenum Nickel Selenium Silver Uranium	Metals (ug	acute 340 TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS	 100(T) TVS TVS 100(T) TVS 1000(T)* 1250(T)* TVS 0.01(t) 160(T) TVS TVS <u>TVSTissue*</u> TVS
Qualifiers: Other: Temporary M Selenium(chro Expiration Dat *Iron(chronic) Creek. See set locations. *Iron(chronic) Creek is the w See section 33 *Selenium(chr body. See sec	Aq Life Warm 2 Recreation N odification(s): mic) = current conditions e of 12/31/2018 = 1,000(T) ug/L on Lower Sage ection 33.6(4) for iron assessment = 1,250(T) ug/L on Upper Sage between Upper and Lower Sage est border of Section 18, T5N, R87W. 3.6(4) for iron assessment locations. onic) = 9.5 mg/kg dry weight whole tion 33.6(4) for selenium assessment	D.O. (mg/L) pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorganic (mg/m ²) Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	DM WS-II acute 6.5 - 9.0 mg/L) acute TVS 0.019 0.005 100 100	WS-II chronic 5.0 630 chronic Chronic 0.011 0.011 0.011 0.011 0.011 0.011	Arsenic Beryllium Cadmium Chromium III Chromium VI Copper Iron Iron Lead Manganese Mercury Molybdenum Nickel Selenium Silver Uranium	Metals (ug	acute 340 TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS	 100(T) TVS TVS 100(T) TVS 1000(T)* 1250(T)* TVS 0.01(t) 160(T) TVS TVS <u>TVSTissue*</u> TVS

		s and wetlands, from a point imme		onnuence w			a River.
COUCYA13F	Classifications	Physical and B	iological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum		
	Recreation E		acute	chronic	Arsenic	340	0.02(T)
	Water Supply	D.O. (mg/L)		6.0	Beryllium		
Qualifiers:		D.O. (spawning)		7.0	Cadmium	TVS(tr)	TVS
Other:		рН	6.5 - 9.0		Chromium III	50(T)	TVS
Temporary Mo	odification(s):	chlorophyll a (mg/m ²)		150	Chromium VI	TVS	TVS
Arsenic(chroni		E. Coli (per 100 mL)		126	Copper	TVS	TVS
	e of 12/31/2021				Iron		WS
		Inorganic	: (mg/L)		Iron		1000(T)
			acute	chronic	Lead	TVS	TVS
		Ammonia	TVS	TVS	Manganese	TVS	TVS
		Boron		0.75	Manganese		WS
		Chloride		250	Mercury		0.01(t)
		Chlorine	0.019	0.011	Molybdenum		160(T)
		Cyanide	0.005		Nickel	TVS	TVS
		Nitrate	10		Selenium	TVS	TVS
		Nitrite		0.05	Silver	TVS	TVS(tr)
		Phosphorus		0.11	Uranium		
		Sulfate		WS	Zinc	TVS	TVS
		Sulfide		0.002			
13g. All tributa	ries to Fish Creek from the confluence	e with Cow Camp Creek to the cor	fluence with Trout	t Creek,			
COUCYA13G	Classifications	Physical and B	liological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Aluminum		
	Recreation E		acute	chronic	Arsenic	340	7.6(T)
Qualifiers:		D.O. (mg/L)		5.0	Damillions		
Other:		-		5.0	Beryllium		
		рН	6.5 - 9.0		Cadmium	 TVS(tr)	 TVS
Temporary Mo	odification(s):	pH chlorophyll a (mg/m²)	6.5 - 9.0 				
Temporary Mo Selenium(chro	odification(s): onic) = current conditions	•			Cadmium	TVS(tr)	TVS
Selenium(chro Expiration Date	onic) = current conditions e of 12/31/2018	chlorophyll a (mg/m ²)		 150	Cadmium Chromium III	TVS(tr) TVS	TVS TVS
Selenium(chro Expiration Date *Selenium(chro	nic) = current conditions e of 12/31/2018 onic) = 9.5 mg/kg dry weight whole	chlorophyll a (mg/m²) E. Coli (per 100 mL) Inorganic		 150	Cadmium Chromium III Chromium VI	TVS(tr) TVS TVS	TVS TVS TVS
Selenium(chro Expiration Date *Selenium(chro body. See sect	onic) = current conditions e of 12/31/2018	chlorophyll a (mg/m²) E. Coli (per 100 mL) Inorganic	 ; (mg/L)	 150 126	Cadmium Chromium III Chromium VI Copper	TVS(tr) TVS TVS TVS	TVS TVS TVS TVS
Selenium(chro Expiration Date *Selenium(chro body. See sect	nic) = current conditions e of 12/31/2018 onic) = 9.5 mg/kg dry weight whole tion 33.6(4) for selenium assessment	chlorophyll a (mg/m²) E. Coli (per 100 mL) Inorganic	 : (mg/L) acute	 150 126 chronic	Cadmium Chromium III Chromium VI Copper Iron	TVS(tr) TVS TVS TVS 	TVS TVS TVS TVS 1000(T)
Selenium(chro Expiration Date *Selenium(chro body. See sect	nic) = current conditions e of 12/31/2018 onic) = 9.5 mg/kg dry weight whole tion 33.6(4) for selenium assessment	chlorophyll a (mg/m²) E. Coli (per 100 mL) Inorganic Ammonia	 : (mg/L) acute TVS	 150 126 chronic TVS	Cadmium Chromium III Chromium VI Copper Iron Lead	TVS(tr) TVS TVS TVS TVS	TVS TVS TVS TVS 1000(T) TVS
Selenium(chro Expiration Date *Selenium(chro body. See sect	nic) = current conditions e of 12/31/2018 onic) = 9.5 mg/kg dry weight whole tion 33.6(4) for selenium assessment	chlorophyll a (mg/m²) E. Coli (per 100 mL) Inorganic Ammonia Boron	 : (mg/L) acute TVS 	 150 126 chronic TVS 0.75	Cadmium Chromium III Chromium VI Copper Iron Lead Manganese	TVS(tr) TVS TVS TVS TVS TVS	TVS TVS TVS TVS 1000(T) TVS TVS
Selenium(chro Expiration Date *Selenium(chro body. See sect	nic) = current conditions e of 12/31/2018 onic) = 9.5 mg/kg dry weight whole tion 33.6(4) for selenium assessment	chlorophyll a (mg/m²) E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride	 s (mg/L) acute TVS 	 150 126 chronic TVS 0.75 	Cadmium Chromium III Chromium VI Copper Iron Lead Manganese Mercury	TVS(tr) TVS TVS TVS TVS TVS 	TVS TVS TVS TVS 1000(T) TVS TVS 0.01(t)
Selenium(chro Expiration Date *Selenium(chro body. See sect	nic) = current conditions e of 12/31/2018 onic) = 9.5 mg/kg dry weight whole tion 33.6(4) for selenium assessment	chlorophyll a (mg/m²) E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine	 : (mg/L) acute TVS 0.019	 150 126 chronic TVS 0.75 0.011	Cadmium Chromium III Chromium VI Copper Iron Lead Manganese Mercury Molybdenum	TVS(tr) TVS TVS TVS TVS TVS TVS 	TVS TVS TVS 1000(T) TVS TVS 0.01(t) 160(T)
Selenium(chro Expiration Date *Selenium(chro body. See sect	nic) = current conditions e of 12/31/2018 onic) = 9.5 mg/kg dry weight whole tion 33.6(4) for selenium assessment	chlorophyll a (mg/m²) E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide	 : (mg/L) acute TVS 0.019 0.005	 150 126 chronic TVS 0.75 0.011 	Cadmium Chromium III Chromium VI Copper Iron Lead Manganese Mercury Molybdenum Nickel	TVS(tr) TVS TVS TVS TVS TVS TVS	TVS TVS TVS 1000(T) TVS TVS 0.01(t) 160(T) TVS
Selenium(chro Expiration Date *Selenium(chro body. See sect	nic) = current conditions e of 12/31/2018 onic) = 9.5 mg/kg dry weight whole tion 33.6(4) for selenium assessment	chlorophyll a (mg/m²) E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate	 c (mg/L) TVS 0.019 0.005 100	 150 126 chronic TVS 0.75 0.011 	Cadmium Chromium III Chromium VI Copper Iron Lead Manganese Mercury Molybdenum Nickel Selenium	TVS(tr) TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS	TVS TVS TVS 1000(T) TVS 0.01(t) 160(T) TVS TVS
Selenium(chro Expiration Date *Selenium(chro body. See sect	nic) = current conditions e of 12/31/2018 onic) = 9.5 mg/kg dry weight whole tion 33.6(4) for selenium assessment	chlorophyll a (mg/m²) E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	 c (mg/L) acute TVS 0.019 0.005 100 	 150 126 chronic TVS 0.75 0.011 0.05	Cadmium Chromium III Chromium VI Copper Iron Lead Manganese Mercury Molybdenum Nickel Selenium Silver	TVS(tr) TVS TVS TVS TVS TVS TVS TVS TVS TVS TVS	TVS TVS TVS 1000(T) TVS 0.01(t) 160(T) TVS TVS TVS TVS

13h. Mainstem	n of Dry Creek, including all tributaries	and wetlands, from the confluenc	e with Temple Gu	Ich to the co	nfluence with the Y	Yampa River near Hayden.	
COUCYA13H	Classifications	Physical and B	liological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Aluminum		
	Recreation E		acute	chronic	Arsenic	340	7.6(T)
Qualifiers:		D.O. (mg/L)		5.0	Beryllium		
Other:		рН	6.5 - 9.0		Cadmium	TVS(T)	TVS
		chlorophyll a (mg/m ²)		150	Chromium III	TVS	TVS
*Iron(chronic) + assessment lo	= See section 33.6(4) for iron	E. Coli (per 100 mL)		126	Chromium VI	TVS	TVS
*Selenium(acu	te) = See section 33.6(4) for selenium	Inorganic	: (mg/L)		Copper	TVS	TVS
	andards and assessment locations. onic) = See section 33.6(4) for		acute	chronic	Iron		1000(T) <u>*</u>
selenium site-s	specific standards and assessment	Ammonia	TVS	TVS	Lead	TVS	TVS
locations.		Boron		0.75	Manganese	TVS	TVS
		Chloride			Mercury		0.01(t)
		Chlorine	0.019	0.011	Molybdenum		160(T)
		Cyanide	0.005		Nickel	TVS	TVS
		Nitrate	100		Selenium	TVSvaries*	TVSvaries*
		Nitrite		0.05	Silver	TVS	TVS(T)
					Uranium		
		Phosphorus		0.17		TVS	TVS
		Sulfate Sulfide		0.002	Zinc	105	172
	of Grassy Creek, including all tributari		-	pove the con	fluence with Scotc		
COUCYA13I	Classifications	Bhysical and B					
		Physical and B				Metals (ug/L)	
-	Agriculture		DM	MWAT		Metals (ug/L) acute	chronic
UP	Aq Life Warm 2	Temperature °C	DM WS-II	WS-II	Aluminum	acute	
UP	-	Temperature °C	DM	WS-II chronic	Arsenic	acute	
UP	Aq Life Warm 2	Temperature °C D.O. (mg/L)	DM WS-II acute	WS-II	Arsenic Beryllium	acute	
UP	Aq Life Warm 2	Temperature °C D.O. (mg/L) pH	DM WS-II acute	WS-II chronic	Arsenic	acute 340	 100(T)
UP Qualifiers:	Aq Life Warm 2 Recreation N	Temperature °C D.O. (mg/L)	DM WS-II acute	WS-II chronic 5.0	Arsenic Beryllium Cadmium Chromium III	acute 340 	 100(T)
UP Qualifiers: Other: Temporary Me	Aq Life Warm 2 Recreation N	Temperature °C D.O. (mg/L) pH	DM WS-II acute 6.5 - 9.0	WS-II chronic 5.0	Arsenic Beryllium Cadmium	acute 340 TVS	 100(T) TVS
UP Qualifiers: Other: Temporary Mo Iron(chronic) =	Aq Life Warm 2 Recreation N odification(s):	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m ²)	DM WS-II acute 6.5 - 9.0 	WS-II chronic 5.0 	Arsenic Beryllium Cadmium Chromium III	acute 340 TVS TVS	 100(T) TVS TVS
UP Qualifiers: Other: Temporary Me Iron(chronic) = Expiration Date	Aq Life Warm 2 Recreation N odification(s): • current conditions*	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m ²) E. Coli (per 100 mL)	DM WS-II acute 6.5 - 9.0 	WS-II chronic 5.0 	Arsenic Beryllium Cadmium Chromium III Chromium	acute 340 TVS TVS TVS	 100(T) TVS TVS TVS
UP Qualifiers: Other: Temporary Me Iron(chronic) = Expiration Date Selenium(chro	Aq Life Warm 2 Recreation N odification(5): - current conditions* e of 12/31/2018	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m ²) E. Coli (per 100 mL)	DM WS-II acute 6.5 - 9.0 c (mg/L)	WS-II chronic 5.0 630	Arsenic Beryllium Cadmium Chromium III Chromium Copper	acute 340 TVS TVS TVS TVS TVS	 100(T) TVS TVS TVS TVS
UP Qualifiers: Other: Temporary Me Iron(chronic) = Expiration Date Selenium(chro Expiration Date	Aq Life Warm 2 Recreation N odification(s): • current conditions* e of 12/31/2018 mic) = current conditions e of 12/31/2018	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorganic	DM WS-II acute 6.5 - 9.0 c (mg/L) acute	WS-II chronic 5.0 630 chronic	Arsenic Beryllium Cadmium Chromium III Chromium Copper Iron	acute 340 TVS TVS TVS TVS <u>7/1-2/29</u>	 100(T) TVS TVS TVS TVS 1000(T)*
UP Qualifiers: Other: Temporary Mo Iron(chronic) = Expiration Date Expiration Date *Iron(chronic), 33.6(4) for iron	Aq Life Warm 2 Recreation N odification(s): - current conditions* e of 12/31/2018 mic) = current conditions e of 12/31/2018 7/1-2/29 = 1000(T) ug/L. See section h assessment locations.	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorganic Ammonia	DM WS-II acute 6.5 - 9.0 : (mg/L) acute TVS	WS-II chronic 5.0 630 chronic TVS	Arsenic Beryllium Cadmium Chromium III Chromium Copper Iron Iron	acute 340 TVS TVS TVS TVS <u>7/1-2/29</u> <u>3/1-6/30</u>	 100(T) TVS TVS TVS TVS 1000(T)* <u>1410(T)*</u>
UP Qualifiers: Other: Temporary Median Iron(chronic) = Expiration Date Selenium(chro Expiration Date *Iron(chronic), 33.6(4) for iron *Iron(chronic),	Aq Life Warm 2 Recreation N odification(s): - current conditions* e of 12/31/2018 onic) = current conditions e of 12/31/2018 7/1-2/29 = 1000(T) ug/L. See section	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorganic Ammonia Boron	DM WS-II acute 6.5 - 9.0 : (mg/L) acute TVS 	WS-II chronic 5.0 630 chronic TVS 0.75	Arsenic Beryllium Cadmium Chromium III Chromium Copper Iron Iron Iron	acute 340 TVS TVS TVS TVS 3/1-6/30 3/1-6/30	 100(T) TVS TVS TVS TVS 1000(T)* <u>1410(T)*</u> <u>2000(T)*</u>
UP Qualifiers: Other: Temporary Me Iron(chronic) = Expiration Date Selenium(chron Expiration Date *Iron(chronic), 33.6(4) for iron *Iron(chronic), Creek. See see locations.	Aq Life Warm 2 Recreation N odification(s): • current conditions* e of 12/31/2018 mic) = current conditions e of 12/31/2018 7/1-2/29 = 1000(T) ug/L. See section n assessment locations. 3/1-6/30 = 1410(T) ug/L on Grassy ction 33.6(4) for iron assessment	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride	DM WS-II acute 6.5 - 9.0 c (mg/L) acute TVS 	WS-II chronic 5.0 630 chronic TVS 0.75 	Arsenic Beryllium Cadmium Chromium III Chromium Copper Iron Iron Iron Lead	acute 340 TVS TVS TVS TVS <u>7/1-2/29</u> <u>3/1-6/30</u> === <u>3/1-6/30</u> ===	 100(T) TVS TVS TVS 1000(T)* <u>1410(T)*</u> <u>2000(T)*</u> TVS
UP Qualifiers: Other: Temporary Me Iron(chronic) = Expiration Date Selenium(chro Expiration Date *Iron(chronic), 33.6(4) for iron *Iron(chronic), CreekSee see locations. *Iron(chronic), Grassy Creek	Aq Life Warm 2 Recreation N odification(s): - current conditions* e of 12/31/2018 mic) = current conditions e of 12/31/2018 7/1-2/29 = 1000(T) ug/L. See section assessment locations. <u>3/1-6/30</u> = <u>1410(T) ug/L on Grassy</u> ction 33.6(4) for iron assessment <u>3/1-6/30 = 2000(T) ug/L on Little</u> <u>See section 33.6(4) for iron</u>	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine	DM WS-II acute 6.5 - 9.0 c (mg/L) acute TVS TVS 0.019	WS-II chronic 5.0 630 chronic TVS 0.75 0.011	Arsenic Beryllium Cadmium Chromium III Chromium Copper Iron Iron Iron Lead Manganese	acute 340 TVS TVS TVS TVS 3/1-6/30 TVS TVS TVS	 100(T) TVS TVS TVS TVS 1000(T)* <u>1410(T)*</u> <u>2000(T)*</u> TVS
UP Qualifiers: Other: Temporary Me Iron(chronic) = Expiration Date Selenium(chron Expiration Date *Iron(chronic), 33.6(4) for iron *Iron(chronic), Creek. See set locations. *Iron(chronic), Grassy Creek, assessment lo	Aq Life Warm 2 Recreation N odification(s): - current conditions* e of 12/31/2018 mic) = current conditions e of 12/31/2018 7/1-2/29 = 1000(T) ug/L. See section assessment locations. 3/1-6/30 = 1410(T) ug/L on Grassy ction 33.6(4) for iron assessment 3/1-6/30 = 2000(T) ug/L on Little See section 33.6(4) for iron ications.	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide	DM WS-II acute 6.5 - 9.0 (mg/L) acute TVS 0.019 0.005	WS-II chronic 5.0 630 chronic TVS 0.75 0.011 	Arsenic Beryllium Cadmium Chromium III Chromium Copper Iron Iron Iron Lead Manganese Mercury	acute 340 TVS TVS TVS TVS 7/1-2/29 3/1-6/30 === 3/1-6/30 === TVS TVS	 100(T) TVS TVS TVS TVS 1000(T)* <u>1410(T)*</u> <u>2000(T)*</u> TVS TVS TVS 0.01(t)
UP Qualifiers: Other: Temporary Me Iron(chronic) = Expiration Date Selenium(chro Expiration Date *Iron(chronic), 33.6(4) for iron *Iron(chronic), Graesy Creek, assessment lo *Selenium(chro body, See sections)	Aq Life Warm 2 Recreation N odification(s): - current conditions* e of 12/31/2018 mic) = current conditions e of 12/31/2018 7/1-2/29 = 1000(T) ug/L. See section n assessment locations. 3/1-6/30 = 1410(T) ug/L on Grassy ction 33.6(4) for iron assessment 3/1-6/30 = 2000(T) ug/L on Little See section 33.6(4) for iron cations. onic) = 9.5 mg/kg dry weight whole tion 33.6(4) for selenium assessment	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate	DM WS-II acute 6.5 - 9.0 (mg/L) acute TVS 0.019 0.005 100	WS-II chronic 5.0 630 chronic TVS 0.75 0.011	Arsenic Beryllium Cadmium Chromium III Chromium Copper Iron Iron Iron Lead Manganese Mercury Molybdenum	acute 340 TVS TVS TVS <u>7/1-2/29</u> <u>3/1-6/30</u> <u>3/1-6/30</u> TVS TVS TVS <u>3/1-6/30</u> TVS TVS	 100(T) TVS TVS TVS 1000(T)* <u>1410(T)*</u> <u>2000(T)*</u> TVS TVS 0.01(t) 160(T)
UP Qualifiers: Other: Temporary Me Iron(chronic) = Expiration Date Selenium(chro Expiration Date *Iron(chronic), 33.6(4) for iron *Iron(chronic), Graesk_See see locations. *Iron(chronic), Grassy Creek. assessment lo *Selenium(chro top) Selenium(chronic), Grassy Creek. assessment lo *Selenium(chronic), Selenium(chronic), Grassy Creek. assessment lo *Selenium(chronic), Selenium(chronic), Grassy Creek. assessment lo	Aq Life Warm 2 Recreation N odification(s): - current conditions* e of 12/31/2018 mic) = current conditions e of 12/31/2018 7/1-2/29 = 1000(T) ug/L. See section massessment locations. <u>3/1-6/30</u> = 1410(T) ug/L on Grassy ction 33.6(4) for iron assessment <u>3/1-6/30</u> = 2000(T) ug/L on Little <u>See section 33.6(4) for iron</u> cations. onic) = 9.5 mg/kg dry weight whole tion 33.6(4) for selenium assessment fish-tissue assessment method.	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	DM WS-II acute 6.5 - 9.0 (mg/L) acute TVS 0.019 0.005 100	WS-II chronic 5.0 630 Chronic Chronic 0.011 0.05	Arsenic Beryllium Cadmium Chromium III Chromium Copper Iron Iron Iron Lead Manganese Mercury Molybdenum	acute 340 TVS TVS TVS TVS 7/1-2/29 3/1-6/30 === 3/1-6/30 TVS TVS TVS TVS	 100(T) TVS TVS TVS 1VS 1000(T)* <u>1410(T)*</u> <u>2000(T)*</u> TVS TVS 0.01(t) 160(T) TVS
UP Qualifiers: Other: Temporary Me Iron(chronic) = Expiration Date Selenium(chro Expiration Date *Iron(chronic), 33.6(4) for iron *Iron(chronic), Graesk_See see locations. *Iron(chronic), Grassy Creek. assessment lo *Selenium(chro top) Selenium(chronic), Grassy Creek. assessment lo *Selenium(chronic), Selenium(chronic), Grassy Creek. assessment lo *Selenium(chronic), Selenium(chronic), Grassy Creek. assessment lo	Aq Life Warm 2 Recreation N odification(s): - current conditions* e of 12/31/2018 mic) = current conditions e of 12/31/2018 7/1-2/29 = 1000(T) ug/L. See section n assessment locations. 3/1-6/30 = 1410(T) ug/L on Grassy ction 33.6(4) for iron assessment 3/1-6/30 = 2000(T) ug/L on Little See section 33.6(4) for iron cations. onic) = 9.5 mg/kg dry weight whole tion 33.6(4) for selenium assessment	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chloride Chorine Cyanide Nitrate Nitrite Phosphorus	DM WS-II acute 6.5 - 9.0 (mg/L) acute TVS 0.019 0.005 100 	WS-II chronic 5.0 630 chronic TVS 0.75 0.011 0.011 0.05 0.17	Arsenic Beryllium Cadmium Chromium III Chromium Copper Iron Iron Lead Manganese Mercury Molybdenum Nickel Selenium	acute ac	100(T) TVS TVS TVS 1000(T)* 1000(T)* 1410(T)* 2000(T)* TVS 0.01(t) 160(T) TVS TVS
UP Qualifiers: Other: Temporary Me Iron(chronic) = Expiration Date Selenium(chro Expiration Date *Iron(chronic), 33.6(4) for iron *Iron(chronic), Graesk_See see locations. *Iron(chronic), Grassy Creek. assessment lo *Selenium(chro top) Selenium(chronic), Grassy Creek. assessment lo *Selenium(chronic), Selenium(chronic), Grassy Creek. assessment lo *Selenium(chronic), Selenium(chronic), Grassy Creek. assessment lo	Aq Life Warm 2 Recreation N odification(s): - current conditions* e of 12/31/2018 mic) = current conditions e of 12/31/2018 7/1-2/29 = 1000(T) ug/L. See section massessment locations. <u>3/1-6/30</u> = 1410(T) ug/L on Grassy ction 33.6(4) for iron assessment <u>3/1-6/30</u> = 2000(T) ug/L on Little <u>See section 33.6(4) for iron</u> cations. onic) = 9.5 mg/kg dry weight whole tion 33.6(4) for selenium assessment fish-tissue assessment method.	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrate Nitrite Phosphorus Sulfate	DM WS-II acute 6.5 - 9.0 (mg/L) acute TVS 0.019 0.005 100 100	WS-II chronic 5.0 630 chronic Chronic 0.011 0.011 0.011 0.011 0.011 0.05 0.17	Arsenic Beryllium Cadmium Chromium III Chromium Copper Iron Iron Iron Lead Manganese Mercury Molybdenum Nickel Selenium	acute acute 340 TVS TVS TVS TVS 3/1-6/30 3/1-6/30 TVS TVS TVS TVS 3/1-6/30 TVS	100(T) TVS TVS TVS 1000(T)* 1000(T)* 1410(T)* 2000(T)* TVS 0.01(t) 160(T) TVS TVS
UP Qualifiers: Other: Temporary Me Iron(chronic) = Expiration Date Selenium(chro Expiration Date *Iron(chronic), 33.6(4) for iron *Iron(chronic), <u>Greek. See see</u> locations. *Iron(chronic), <u>Grassy Creek.</u> assessment lo *Selenium(chro body. See seci locations and f	Aq Life Warm 2 Recreation N odification(s): - current conditions* e of 12/31/2018 mic) = current conditions e of 12/31/2018 7/1-2/29 = 1000(T) ug/L. See section massessment locations. <u>3/1-6/30</u> = 1410(T) ug/L on Grassy ction 33.6(4) for iron assessment <u>3/1-6/30</u> = 2000(T) ug/L on Little <u>See section 33.6(4) for iron</u> cations. onic) = 9.5 mg/kg dry weight whole tion 33.6(4) for selenium assessment fish-tissue assessment method.	Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m ²) E. Coli (per 100 mL) Inorganic Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrate Nitrite Phosphorus Sulfate	DM WS-II acute 6.5 - 9.0 (mg/L) acute TVS 0.019 0.005 100 100	WS-II chronic 5.0 630 chronic Chronic 0.011 0.011 0.011 0.011 0.011 0.05 0.17	Arsenic Beryllium Cadmium Chromium III Chromium Copper Iron Iron Iron Lead Manganese Mercury Molybdenum Nickel Selenium Silver Uranium	acute acute 340 TVS TVS TVS 7/1-2/29 3/1-6/30 3/1-6/30 TVS	 100(T) TVS TVS TVS 1VS 1000(T)* <u>1410(T)*</u> <u>2000(T)*</u> TVS TVS 0.01(t) 160(T) TVS <u>TVSTissue*</u> TVS

13j. Mainstem	of Grassy Creek, including all tributarie	es and wetlands, from the confluence v	vith Scotchma	ans Gulch to	the confluence wit	h the Yampa River near Ha	yden.
COUCYA13J	Classifications	Physical and Biolog		Metals (ug/L)			
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Aluminum		
	Recreation N		acute	chronic	Arsenic	340	100(T)
Qualifiers:		D.O. (mg/L)		5.0	Beryllium		
Other:		рН	6.5 - 9.0		Cadmium	TVS	TVS
		chlorophyll a (mg/m ²)			Chromium III	TVS	TVS
	te) = See section 33.6(4) for selenium andards and assessment locations.	E. Coli (per 100 mL)		630	Chromium VI	TVS	TVS
*Selenium(chr	onic) = See section 33.6(4) for	Inorganic (mg/L)		Copper	TVS	TVS	
locations.	specific standards and assessment		acute	chronic	Iron		1000(T)
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron		0.75	Manganese	TVS	TVS
		Chloride			Mercury		0.01(t)
		Chlorine	0.019	0.011	Molybdenum		160(T)
		Cyanide	0.005		Nickel	TVS	TVS
		Nitrate	100		Selenium	3/1 - 6/30 TVS <u>varies</u> *	TVSvaries*
		Nitrite		0.05	Silver	TVS	TVS
		Phosphorus		0.17	Uranium		
		Sulfate			Zinc	TVS	TVS
		Sulfide		0.002			

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EXHIBIT 7 TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION, INC.

DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Water Quality Control Commission

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

5 CCR 1002-37

37.6 TABLES

• • •

- (4) <u>Assessment Criteria</u>
 - . . .

(c) Lower Colorado Segment 4e Iron Standards and Assessment

Unnamed Tributary, Iron (chronic) = 3500 (T) µg/L, assessment location as follows:

• UT-2: Unnamed Tributary, immediately downstream of the Tri-State Rifle Station discharge (39.519572, -107.729424)

<u>Dry Creek and remaining tributaries and wetlands, Iron (chronic) = 5900 (T) μ g/L, assessment location as follows:</u>

 DC-2: Dry Creek, downstream of dry tributary channel entering from the east from the Garfield County Airport (39.523944, -107.73496)

. . . .

37.39 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 11, 2017 RULEMAKING; FINAL ACTION JANUARY 8, 2018; EFFECTIVE DATE JUNE 30, 2018

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

BASIS AND PURPOSE

Lower Colorado River Segment 4e: temporary modifications of the iron (expire 12/31/2018) and copper (expire 12/31/2019) standards on Lower Colorado Segment 4e were reviewed. The Commission deleted the iron temporary modification and adopted site-specific iron standards based on the evidence submitted

37.39STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 11, 2017 RULEMAKING; FINAL ACTION JANUARY 8, 2018; EFFECTIVE DATE JUNE 30, 2018

by Tri-State Generation and Transmission Association, Inc. Tri-State also presented evidence that it is making progress on the plan for eliminating the need for the copper temporary modification.

IRON

Tri-State submitted sufficient data and justification to support two ambient-based site-specific total recoverable iron standards for Segment 4e: one based on data from the Unnamed Tributary (Site UT-2) located immediately below Tri-State Rifle Station's discharge, and one based on data from a downstream site on Dry Creek (Site DC-2), the furthest downstream sample site. Data were included from samples taken at times when no discharge from the Rifle Station was occurring to represent the natural iron concentrations. These data indicated that natural sources of ambient iron present within the Dry Creek watershed are driving the instream concentrations of total recoverable iron detected at sample locations downstream of the Tri-State Rifle Station. The Commission adopted a standard of 3500 µg/L for the Unnamed Tributary, and a standard of 5900 µg/L for the remaining parts of the segment, as a conservative approach based on background conditions. Evidence submitted by Tri-State demonstrated that ambient iron concentrations were not inhibiting the attainment of the limited aquatic use. Therefore, ambient iron concentrations provide a reasonable basis for site-specific standards, which are expected to protect the aquatic community.

The Commission specified assessment locations for the two iron standards at section 37.6(4)(c) to ensure that future assessment is consistent with the methods used to derive the standards.

The Commission removed the temporary modification for iron of "current condition" that had previously been in place for Lower Colorado Segment 4e.

COPPER

The Commission considered the temporary modification for copper for Lower Colorado Segment 4e. Tri-State continues to make progress on the temporary modification of the copper standard, and plans to propose standards at the June 2019 basin rulemaking.

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

WATER QUALITY CONTROL COMMISSION

5 CCR 1002-37

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

APPENDIX 37-1 Stream Classifications and Water Quality Standards Tables

Effective 06/30/20172018

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Lower Colorado River

4e. Mainstem	of Dry Creek including all tributaries a	nd wetlands from the source to immed	iately above th	e Last Chan	nce Ditch.		
COLCLC04E	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Aluminum		
	Recreation N		acute	chronic	Arsenic	340	100(T)
Qualifiers:		D.O. (mg/L)		5.0	Beryllium		
Other:		рН	6.5 - 9.0		Cadmium	TVS	TVS
Temporary M	odification(s):	chlorophyll a (mg/m ²)			Chromium III	TVS	TVS
	= current conditions	E. Coli (per 100 mL)		630	Chromium III		100(T)
Expiration Date of 12/31/2019 Iron(chronic) = current conditions		Inorganic (mg/L)		Chromium VI	TVS	TVS	
			acute	chronic	Copper	TVS	TVS
Expiration Date of 12/31/2018		Ammonia	TVS	TVS	Iron		1000<u>5900</u>(T)<u>*</u>
Iron(chronic) :	= See section 37.6(4) for iron	Boron		0.75	<u>lron</u>	<u></u>	<u>3500(T)</u>
assessment lo	cations.	Chloride			Lead	TVS	TVS
	= 3500 (T) ug/L on Unnamed section 37.6(4) for iron assessment	Chlorine	0.019	0.011	Manganese	TVS	TVS
locations. *Phosphorus(/	chronic) = applies only above the	Cyanide	0.005		Mercury		0.01(t)
facilities listed		Nitrate	100		Molybdenum		160(T)
		Nitrite		0.05	Nickel	TVS	TVS
		Phosphorus		0.11*	Selenium	TVS	TVS
		Sulfate			Silver	TVS	TVS
		Sulfide		0.002	Uranium		
					Zinc	TVS	TVS