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 <u>12/31/2018</u>06/30/2019

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

	of Iowa Gulch from a point immediately 1 Ditch (Iowa Ditch).	below the historic upper ASARC	O water supply inta	ke at 39.224	4327, -106.223432 to a poi	int immediately below	the headgate of
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	Arsenic	340	
	Recreation E		acute	chronic	Arsenic(T)		100
Qualifiers:		D.O. (mg/L)		6.0	Cadmium	SSE*	TVS
Other:		D.O. (spawning)		7.0	Chromium III	TVS	TVS
Temporary Modification(s):		рН	6.5 - 9.0		Chromium III(T)		100
Cadmium(chronic) = 1.2		chlorophyll a (mg/m ²)		150	Chromium VI	TVS	TVS
Zinc(chronic) =	= 325	E. Coli (per 100 mL)		126	Copper	TVS	TVS
Zinc(acute) = 593					Iron(T)		1000
Expiration Date of 6/30/2020		Inorgan	ic (mg/L)		Lead	TVS	TVS
*Cadmium(acute) = (1.136672- [In(hardness)*0.041838]*e^(0.9789*In(hardness)- 3.5146) *Uranium(acute) = See 32.5(3) for details.			acute	chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)		0.01
		Boron		0.75	Molybdenum(T)		150
*Uranium(chronic) = See 32.5(3) for details.		Chloride			Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide			Silver	TVS	TVS(tr)
		Nitrate	100		Uranium	varies*	varies*
		Nitrite	0.05		Zinc	TVS	TVS
		Phosphorus		0.11]		
		Sulfate					
		Sulfide		0.002			

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

4b. Mainstem	of Rock Creek, Salt Creek and P	eck Creek from their sources to the co	onfluence with the A	Arkansas Riv	er.			
COARMA04B Classifications		Physical and	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic	
UP	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340		
	Recreation E		acute	chronic	Arsenic(T)		7.6	
Qualifiers:		D.O. (mg/L)		5.0	Cadmium	TVS	TVS	
Other:		рН	6.5 - 9.0		Chromium III	TVS	TVS	
		chlorophyll a (mg/m2)		150	Chromium III(T)		100	
Temporary Modification(s):		E. Coli (per 100 mL)		126	Chromium VI	TVS	TVS	
	h) = current conditions	Inorgan	ic (mg/L)		Copper	TVS	TVS	
	= current conditions		acute	chronic	Iron(T)		1000	
	= current conditions	Ammonia	TVS	TVS	Lead	TVS	TVS	
	h) = current conditions	Boron		0.75	Manganese	TVS	TVS	
) = current conditions ng/m2)(chronic) =	Chloride			Mercury(T)		0.01	
current conditio	ens	Chlorine	0.019	0.011	Molybdenum(T)		150	
Chromium III(c conditions	:hronic) = current	Cyanide	0.005		Nickel	TVS	TVS	
Chromium III(a	ac/ch) = current	Nitrate	100		Selenium	TVS	TVS	
conditions Chromium VI(a	ac/ch) = current	Nitrite	0.05		Silver	TVS	TVS	
conditions		Phosphorus		0.17	Uranium	varies*	varies*	
	= current conditions	Sulfate			Zinc	TVS	TVS	
) = current conditions	Sulfide		0.002	200	100	100	
conditions	rronic) = current	Sunde		0.002				
E. Coli (per 10) conditions	0 mL)(chronic) = current							
	-current conditions							
	current conditions							
	/ch) = current conditions							
	ic) = current conditions							
	hronic) = current							
conditions Nickel(ac/ch) =	- current conditions							
	= current conditions							
	= current conditions							
	rrent conditions							
	aronic) = current							
Selenium(ac/cl	h) = current conditions							
Silver(ac/ch) =	current conditions							
Sulfide(chronic	;) = current conditions							
Zinc(ac/ch) = current conditions								
Expiration Date	e of 12/31/2018							
*Uranium(acute	e) = See 32.5(3) for details.							
*Uranium(chronic) = See 32.5(3) for details.								
(51110	.,							

D.O. = dissolved oxygen DM = daily maximum MWAT = maximum weekly average temperature See 32.6 for details on TVS, TVS(tr), WS, temperature standards.

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

6b. Mainstem	of the Saint Charles River from the co	nfluence with Edson Arroyo to the con	fluence with t	he Arkansas	River.		
COARMA06B	Classifications	Physical and Biolo	gical		N	letals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2	Temperature °C	varies*	varies*	Arsenic	340	
	Recreation E Water Supply		acute	chronic	Arsenic(T)		0.02-10 ^A
		D.O. (mg/L)		5.0	Cadmium	TVS	TVS
Qualifiers:		рН	6.5 - 9.0		Cadmium(T)	5.0	
Other:		chlorophyll a (mg/m2)			Chromium III		TVS
		E. Coli (per 100 mL)		126	Chromium III(T)	50	
Temporary Modification(s): temperature(DM/MWAT) = current conditions Expiration Date of 12/31/2018		Inorganic (m	g/L)		Chromium VI	TVS	TVS
			acute	chronic	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron		WS
*Selenium(acute) = See selenium assessment location at 32.6(4). *Selenium(chronic) = See selenium assessment location at 32.6(4). *Uranium(acute) = See 32.5(3) for details.		Boron		0.75	lron(T)		1000
		Chloride		250	Lead	TVS	TVS
		Chlorine	0.019	0.011	Lead(T)	50	
		Cyanide	0.005		Manganese	TVS	TVS/WS
*Temperature = DM=32.6 and N	ronic) = See 32.5(3) for details. 'e = d MWAT=WS-II from 3/1-11/30 nd MWAT=WS-II from 12/1-2/29	Nitrate	10		Mercury(T)		0.01
		Nitrite	0.05		Molybdenum(T)		150
		Phosphorus			Nickel	TVS	TVS
		Sulfate		WS	Nickel(T)		100
		Sulfide		0.002	Selenium	173*	50*
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

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

1a. Mainstem of the Arkansas River from a point immediately above the confluence with Fountain Creek to immediately above the Colorado Canal headgate near Avondale.								
COARLA01A Classifications		Physical and Biolog	gical		м	etals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic	
UP	Aq Life Warm 2	Temperature °C	varies*	varies*	Arsenic	340		
	Recreation E		acute	chronic	Arsenic(T)		0.02-10 ^A	
	Water Supply	D.O. (mg/L)		5.0	Cadmium	TVS	TVS	
Qualifiers:		рН	6.5 - 9.0		Cadmium(T)	5.0		
Other:		chlorophyll a (mg/m2)			Chromium III		TVS	
Temporary Modification(s): Selenium(ac/ch) = existing quality		E. Coli (per 100 mL)		126	Chromium III(T)	50		
		Inorganic (mg/L)			Chromium VI	TVS	TVS	
	c) = existing quality		acute	chronic	Copper	TVS	TVS	
× .	e of 12/31/2018	Ammonia	TVS	TVS	Iron		WS	
Discharger Sp	ecific Variance(s):	Boron		0.75	lron(T)		2800	
Discharger Specific Variance(s): Selenium(acute) = 19.1 μg/L: narrative	Chloride		250	Lead	TVS	TVS		
Selenium(chro	pnic) = $14.1 \mu g/L$:	Chlorine	0.019	0.011	Lead(T)	50		
narrative Sulfate(chronic) = 329 mg/L: narrative Expiration Date of 12/31/2028	Cyanide	0.005		Manganese	TVS	TVS/WS		
	, 0	Nitrate	10		Mercury(T)		0.01	
		Nitrite	0.5		Molybdenum(T)		150	
*Uranium(chronic) *Temperature = DM=WS-II and MW	and MWAT=WS-II from 1/1-11/30	Phosphorus			Nickel	TVS	TVS	
		Sulfate		329	Nickel(T)		100	
		Sulfide		0.002	Selenium	19.1	14.1	
DM= 21.5 and MWAT=20.7 from 12/1-12/31 *Variance: Selenium = see 32.6(6)(c) for details on					Silver	TVS	TVS	
variance for C	ity of Pueblo.				Uranium	varies*	varies*	
*Variance: Sulfate = see 32.6(6)(c) for details on variance for City of Pueblo.					Zinc	TVS	TVS	