	of the Animas River, including wetlands  Classifications	Physical and Bi		n Maggie Gt		Metals (ug/L)	ement Creek.
Designation	Agriculture	Filysical allu bi	DM	MWAT		acute	chronic
Reviewable	Ag Life Cold 1*	T			A I		
Reviewable	Recreation E	Temperature °C	CS-I	CS-I	Aluminum	750(T)	750(T)
Qualifiers:	Recreation		acute	chronic	Arsenic	340	100(T)
Qualifiers:		D.O. (mg/L)		6.0	Beryllium		
Other:		D.O. (spawning)		7.0	Cadmium	SSE*	SSE*
*Classification	: Aquatic life indicator goal: Brook	pH	6.5 - 9.0			TVS(tr)	<del>varies*</del>
Trout	. Aquatic life indicator goal. Brook	chlorophyll a (mg/m2)			Chromium III	TVS	TVS
	ute) =(1.136672-In(hardness)	E. Coli (per 100 mL)		126	Chromium III		100(T)
	(0.9789*In(hardness)-3.866) ronic) =(1.101672-In(hardness)				Chromium VI	TVS	TVS
	(0.7977*In(hardness)-3.909) – except Cadmium (chronic) = 3.5 and May	Inorganic	(mg/L)		Copper	TVS	TVS
where Cadmiu	ım (chronic) = 2.2.		Iron		1000(T)		
<del>Cadmium(chro</del> 1_	onic) = Standards are listed on Table	Ammonia	TVS	TVS	Lead	TVS	TVS
	chronic) = Standards are listed on	Boron		0.75	Manganese		varies*
Table 1. *Zinc(acute) =	Standards are listed on Table 1.	Chloride			Mercury		0.01(t)
, ,	= Standards are listed on Table 1.	Chlorine	0.019	0.011	Molybdenum		160(T)
,		Cyanide	0.005		Nickel	TVS	TVS
		Nitrate	100		Selenium	TVS	TVS
		Nitrite			Silver	TVS	TVS(tr)
		Phosphorus			Uranium		
		Sulfate			Zinc	varies*	varies*
		Sulfide		0.002			

COSJAF03C	Classifications	Physical and	Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
JP	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Aluminum		
	Recreation E		acute	chronic	Arsenic	340	100(T)
Qualifiers:		D.O. (mg/L)		6.0	Beryllium		
		D.O. (spawning)		7.0	0 1 :	SSE*	SSE*
Other:		pH	6.5 - 9.0		Cadmium	TVS(tr)	TVS
	<u>ite) =(1.136672-ln(hardness)</u> (0.9789*ln(hardness)-3.866)	chlorophyll a (mg/m2)			Chromium III	TVS	TVS
Cadmium(chr	onic) =(1.101672-ln(hardness) (0.7977*ln(hardness)-3.909)	E. Coli (per 100 mL)		126	Chromium III		100(T)
<u>0.041636) e'</u>	10.7977 in(naruness)-3.909)				Chromium VI	TVS	TVS
		Inorgan	ic (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			Uranium		
		Sulfate			Zinc	TVS	TVS
		Sulfide		0.002			

COSJAF04A	Classifications	Physical and	Biological			Metals (ug/L)	
4a. Mainstem of the Animas River, including wetla Creek.  COSJAF04A Classifications  Designation Agriculture  UP Aq Life Cold 2*  Recreation E  Qualifiers:			DM	MWAT		acute	chronic
JP	Aq Life Cold 2*	Temperature °C	CS-I	CS-I	Aluminum	varies*	varies*
	Recreation E		acute	chronic	Arsenic	340	100(T)
Qualifiers:		D.O. (mg/L)		6.0	Beryllium		
Other:		D.O. (spawning)		7.0	On designer	SSE*	SSE*
		pН	varies*		Cadmium	TVS(tr)	TVS
Classification	: Aquatic life indicator goal: Brook	chlorophyll a (mg/m2)			Chromium III	TVS	TVS
	ute) = Standards are listed on Table 1.	E. Coli (per 100 mL)		126	Chromium III		100(T)
Aluminum(ch	ronic) = Standards are listed on Table				Chromium VI	TVS	TVS
r. Tron(chronic) :	= Standards are listed on Table 1.	Inorgan	ic (mg/L)		Copper	TVS	TVS
<u>'Cadmium(acı</u>	ute) =(1.136672-In(hardness)		acute	chronic	Iron		varies*
	(0.9789*In(hardness)-3.866) onic) =(1.101672-In(hardness)	Ammonia	TVS	TVS	Lead	TVS	TVS
0.041838)* e/	(0.7977*In(hardness)-3.909)	Boron		0.75	Manganese	TVS	TVS
, ,	Standards are listed on Table 1.	Chloride			Mercury		0.01(t)
,	= Standards are listed on Table 1.	Chlorine	0.019	0.011	Molybdenum		160(T)
pH(acute) = S	Standards are listed on Table 1.	Cyanide	0.005		Nickel	TVS	TVS
		Nitrate	100		Selenium	TVS	TVS
		Nitrite			Silver	TVS	TVS(tr)
		Phosphorus			Uranium		
		Sulfate			Zinc	varies*	varies*
		Sulfide		0.002			

COSJAF04B	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	TVS(T)	TVS(T)	
	Recreation E		acute	chronic	Arsenic	340	0.02(T)	
	Water Supply	D.O. (mg/L)		6.0	Beryllium			
Qualifiers:		D.O. (spawning)		7.0	0 1 :	SSE*	SSE*	
Other:		pH	6.5 - 9.0		Cadmium	TVS(tr)	TVS	
Cadmium(acu	ite) =(1.136672-ln(hardness)	chlorophyll a (mg/m2)			Chromium III	50(T)	TVS	
	(0.9789*ln(hardness)-3.866) onic) =(1.101672-ln(hardness)	E. Coli (per 100 mL)		126	Chromium VI	TVS	TVS	
	(0.7977*In(hardness)-3.909)				Copper	TVS	TVS	
Comporary M	odification(s):	Inorgan	ic (mg/L)		Iron		WS	
Femporary Modification(s):  Arsenic(chronic) = hybrid			acute	chronic	Iron		1000(T)	
•	e of 12/31/2021	Ammonia	TVS	TVS	Lead	TVS	TVS	
,		Boron		0.75	Manganese	TVS	TVS	
		Chloride		250	Manganese		WS	
		Chlorine	0.019	0.011	Mercury		0.01(t)	
		Cyanide	0.005		Molybdenum		160(T)	
		Nitrate	10		Nickel	TVS	TVS	
		Nitrite		0.05	Selenium	TVS	TVS	
		Phosphorus			Silver	TVS	TVS(tr)	
		Sulfate		WS	Uranium			
		Sulfide		0.002	Zinc	TVS	TVS	

6. Mainstem of the Animas River from the source to the outlet of Denver Lake. Mainstem, including all tributaries and wetlands of Cinnamon Creek, Grouse Creek, Picayne Gulch, and Minnie Gulch. All tributaries and wetlands to the Animas River from immediately above Maggie Gulch to Elk Park (including tributaries and wetlands of Mineral Creek) except for those listed under segments 3c, 7, 8, and 9.

ure Cold 1 cion E Supply  136672-In(hardness) In(hardness)-3.866) 1.101672-In(hardness) In(hardness)-3.909) In(s):	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2) E. Coli (per 100 mL)	DM CS-I acute   6.5 - 9.0	MWAT CS-I chronic 6.0 7.0 126	Aluminum Arsenic Beryllium Cadmium Chromium III	acute 340 <u>SSE*</u> TVS(tr) 50(T)	chronic 0.02(T) SSE* TVS
136672-In(hardness) In(hardness)-3.866) I.101672-In(hardness)*In(hardness)-3.909) In(s):	D.O. (mg/L) D.O. (spawning) pH chlorophyll a (mg/m2)	acute   6.5 - 9.0	6.0 7.0 	Arsenic Beryllium Cadmium Chromium III	340  <u>SSE*</u> <del>TVS(tr)</del>	0.02(T)  <u>SSE*</u> TVS
136672-In(hardness) In(hardness)-3.866) I.101672-In(hardness) *In(hardness)-3.909) in(s):	D.O. (spawning) pH chlorophyll a (mg/m2)	  6.5 - 9.0 	6.0 7.0 	Beryllium Cadmium Chromium III	 <u>SSE</u> * <del>TVS(tr)</del>	SSE* TVS
136672-In(hardness) In(hardness)-3.866) I.101672-In(hardness) *In(hardness)-3.909) In(s):	D.O. (spawning) pH chlorophyll a (mg/m2)	 6.5 - 9.0 	7.0 	Cadmium Chromium III	<u>SSE*</u> <del>TVS(tr)</del>	SSE*
In(hardness)-3.866) 1.101672-In(hardness) *In(hardness)-3.909) on(s):	pH chlorophyll a (mg/m2)	6.5 - 9.0		Chromium III	TVS(tr)	TVS
In(hardness)-3.866) 1.101672-In(hardness) *In(hardness)-3.909) on(s):	chlorophyll a (mg/m2)			Chromium III		
In(hardness)-3.866) 1.101672-In(hardness) *In(hardness)-3.909) on(s):					50(T)	TVC
1.101672-In(hardness) *In(hardness)-3.909) on(s):	E. Coli (per 100 mL)		126		(-)	1 1 3
*In(hardness)-3.909) on(s):				Chromium VI	TVS	TVS
. ,				Copper	TVS	TVS
	Inorgani	ic (mg/L)		Iron		WS
rid		acute	chronic	Iron		1000(T)
31/2021	Ammonia	TVS	TVS	Lead	1000(T TVS TV	
	Boron		0.75	Manganese	TVS	TVS
	Chloride		250	Manganese		WS
	Chlorine	0.019	0.011	Mercury		0.01(t)
	Cyanide	0.005		Molybdenum		160(T)
	Nitrate	10		Nickel	TVS	TVS
	Nitrite		0.05	Selenium	TVS	TVS
	Phosphorus			Silver	TVS	TVS(tr)
	Sulfate		WS	Uranium		
	Sulfide		0.002	Zinc	TVS	TVS
		Phosphorus	Phosphorus Sulfate	Phosphorus Sulfate WS	Phosphorus Silver Sulfate WS Uranium	Phosphorus Silver TVS Sulfate WS Uranium

7. Mainstem o	f Cement Creek, including all tributaries	s, and wetlands, from the source to t	he confluence v	vith the Anim	nas River.		
COSJAF07	Classifications	Physical and Biol	ogical		-	Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Recreation E				Aluminum		
Qualifiers:			acute	chronic	Arsenic		100(T)
Other:		D.O. (mg/L)		3.0	Beryllium		100(T)
		рН	3.7-9.0		Cadmium		10(T)
	ation of dissolved aluminum, per, iron, lead, manganese, and zinc	chlorophyll a (mg/m2)			Chromium III		100(T)
that is directed	toward maintaining and achieving	E. Coli (per 100 mL)		126	Chromium VI		100(T)
water quality s and 4b.	standards established for segments 4a	Inorganic (n	ng/L)		Copper		200(T)
			acute	chronic	Iron		
		Ammonia			Lead		100(T)
		Boron		0.75	Manganese		
		Chloride			Mercury		
		Chlorine			Molybdenum		160(T)
		Cyanide	0.2		Nickel		200(T)
		Nitrate	100		Selenium		20(T)
		Nitrite		10	Silver		
		Phosphorus			Uranium		
		Sulfate			Zinc		2000(T)
		Sulfide					

8. Mainstem of Mineral Creek, including wetlands, from the source to a point immediately above the confluence with South Mineral Creek. All tributaries on the east side of this segment of Mineral Creek including wetlands, except for Big Horn Creek. Mainstem of the Middle Fork of Mineral Creek including all tributaries and wetlands from the source to the confluence with Mineral Creek except for Crystal Lake and its exiting tributary to confluence with Middle Fork of Mineral Creek.

COSJAF08	Classifications	Physical and Biolog	jical			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Recreation E				Aluminum		
Qualifiers:			acute	chronic	Arsenic		100(T)
Other:		D.O. (mg/L)		3.0	Beryllium		100(T)
		pH	4.5-9.0		Cadmium		10(T)
	ation of dissolved aluminum, cadmium, ead, manganese, and zinc that is	chlorophyll a (mg/m2)			Chromium III		100(T)
directed towar	d maintaining and achieving water	E. Coli (per 100 mL)		126	Chromium VI		100(T)
quality standai 4b.	ds established for segments 4a and	Inorganic (mg	/L)		Copper		200(T)
			acute	chronic	Iron		
		Ammonia			Lead		100(T)
		Boron		0.75	Manganese		
		Chloride			Mercury		
		Chlorine			Molybdenum		160(T)
		Cyanide	0.2		Nickel		200(T)
		Nitrate	100		Selenium		20(T)
		Nitrite		10	Silver		
		Phosphorus			Uranium		
		Sulfate			Zinc		2000(T)
		Sulfide					

COSJAF09	Classifications	Physical and	Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic	
JP	Aq Life Cold 2*	Temperature °C	CS-I	CS-I	Aluminum		varies*	
	Recreation E		acute	chronic	Arsenic	340	0.02-10(T)	A
	Water Supply	D.O. (mg/L)		6.0	Beryllium			
Qualifiers:		D.O. (spawning)		7.0		SSE*	SSE*	
Other:		pН	varies*		Cadmium	TVS(tr)	TVS(tr)	
		chlorophyll a (mg/m2)			Chromium III	TVS	TVS	
	n: Aquatic Life indicator goal: prates: Brook Trout corridor	E. Coli (per 100 mL)		126	Chromium III	50(T)		
Aluminum(ch	ronic) = Standards are listed on Table				Chromium VI	TVS	TVS	
Cadmium(ac	ute) =(1.136672-ln(hardness)	Inorgani	c (mg/L)		Copper	TVS	varies*	
	<u>(0.9789*In(hardness)-3.866)</u> ronic) =(1.101672-In(hardness)		acute	chronic	Iron		varies*	
	^(0.7977*In(hardness)-3.909)	Ammonia	TVS	TVS	Iron		WS	
	nic) = Standards are listed on Table 1.	Boron		0.75	Lead	TVS	TVS	
, ,	= Standards are listed on Table 1.	Chloride		250	Manganese	TVS	TVS	
, ,	= Standards are listed on Table 1.	Chlorine	0.019	0.011	Manganese		WS	
'pH(acute) = \$	Standards are listed on Table 1.	Cyanide	0.005		Mercury		0.01(t)	
		Nitrate	10		Molybdenum		160(T)	
		Nitrite		0.05	Nickel	TVS	TVS	
		Phosphorus			Selenium	TVS	TVS	
		Sulfate		WS	Silver	TVS	TVS(tr)	
		Sulfide		0.002	Uranium			
					Zinc	TVS	varies*	

#### STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS - FOOTNOTES

(A) Whenever a range of standards is listed and referenced to this footnote, the first number in the range is a strictly health-based value, based on the Commission's established methodology for human health-based standards. The second number in the range is a maximum contaminant level, established under the federal Safe Drinking Water Act that has been determined to be an acceptable level of this chemical in public water supplies, taking treatability and laboratory detection limits into account. Control requirements, such as discharge permit effluent limitations, shall be established using the first number in the range as the ambient water quality target, provided that no effluent limitation shall require an "end-of-pipe" discharge level more restrictive than the second number in the range. Water bodies will be considered in attainment of this standard, and not included on the Section 303(d) List, so long as the existing ambient quality does not exceed the second number in the range.

TABLE 1

#### ANIMAS RIVER BASIN AQUATIC LIFE INDICATOR GOAL: BROOK TROUT

#### Segment 3a Acute Standards

		JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
Z	Zn	720	780	1060	1200	760	410	280	340	380	440	510	590

#### **Chronic Standards**

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
Cd	TVS	TVS	TVS	3.5	<del>2.2</del>	TVS	TVS	TVS	TVS	TVS	TVS	TVS
Mn	TVS	TVS	2571	2179	TVS	TVS	TVS	TVS	TVS	TVS	TVS	TVS
Zn	720	780	1060	1200	760	410	280	340	380	440	510	590

### Segment 4a

#### **Acute Standards**

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
Al(Trec)	3100	3550	2800	2020	1010	740	700	1360	1490	1610	2280	2570
Zn	460	520	620	570	430	250	170	240	290	340	380	420

### **Chronic Standards**

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
рН	5.9-9.0	5.7-9.0	6.2-9.0	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0	5.9-9.0
Al(Trec)	3100	3550	2800	2020	1010	740	700	1360	1490	1610	2280	2570
Fe	3473	2961	3776	3404	2015	1220	1286	1830	1623	2258	2631	3511
Zn	460	520	620	570	430	250	170	240	290	340	380	420

### Segment 9

### Acute Standards

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	ОСТ	NOV	DEC
Al(Trec)	4680	4950	4560	3800	1390	1350	1290	2040	2570	2680	3450	4050

#### **Chronic Standards**

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
рН	4.9-9.0	4.8-9.0	4.9-9.0	5.9-9.0	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0	6.2-9.0	5.4-9.0
Al(Trec)	4680	4950	4560	3800	1390	1350	1290	2040	2570	2680	3450	4050
Cu	TVS	TVS	TVS	18	20	TVS						
Fe	3420	3800	4370	3370	3150	2210	2275	2280	3020	3580	3620	3490
Zn	TVS	TVS	TVS	TVS	230	TVS						