

WATER QUALITY

Appendix C-1 Regulation No. 33 Upper Colorado River Basin

Appendix C-2 Regulation No. 38 South Platte River Basin

Appendix C-1 Regulation No. 33 Upper Colorado River Basin

**REGULATION NO. 33 UPPER COLORADO RIVER BASIN
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS**

| REGION:12 | Desig | Classifications | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|---|-------|---|---|---|--|---|--|---|---|
| BASIN: Upper Colorado River | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | METALS ug/l | | | | |
| Stream Segment Description | | | | | | | | | |
| 1. Mainstem of the Colorado River, including all tributaries, wetlands, lakes and reservoirs, within Rocky Mountain National Park, or which flow into Rocky Mountain National Park. | OW | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 2. Mainstem of the Colorado River, including all tributaries, wetlands, lakes, and reservoirs within, or flowing into Arapahoe National Recreation Area, including Grand Lake, Shadow Mountain Lake and Lake Granby. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 3. Mainstem of the Colorado River from the outlet of Lake Granby to the confluence with Roaring Fork River. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 4. All tributaries to the Colorado River, including all wetlands, from the outlet of Lake Granby to the confluence with the Roaring Fork River, which are on National Forest lands, except for those tributaries included in Segments 1 and 2, and specific listings in Segments 8, 9 and 10. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 5. All lakes and reservoirs tributary to the Colorado River from the boundary of Rocky Mountain National Park and Arapahoe National Recreation Area to a point immediately below the confluence with the Roaring Fork River which are not on National Forest lands, except for specific listing in Segments 1 and 9. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 6a. All tributaries to the Colorado River, including all wetlands, from the boundary of Rocky Mountain National Park and Arapahoe National Recreation Area to a point immediately below the confluence with the Blue River which are not on National Forest lands, except for specific listings in Segments 6b, 6c, 7b, 8 and 10. | | Aq Life Cold 1 Recreation 2 Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 NO ₂ =0.05 B=0.75 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS | Cu(ac/ch)=TVS Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS | Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 6b. Mainstem of un-named tributary from the headwaters (Sec 32, T3N, R76W) to Willow Creek Reservoir Road (Section 8, T2N, R76W). | UP | Aq Life Cold 2 Recreation 2 Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml | CN=0.2 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 | As(ac)=100 Cd(ch)=10 CrIII(ch)=100 CrVI(ch)=100 | Cu(ac)=200 Pb(ch)=100 Mn(ch)=200 Ni(ac/ch)=200 | Se(ch)=20 Zn(ch)=2000 | All metals are Trec unless otherwise noted. |

REGULATION NO. 33 UPPER COLORADO RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION:12 | Desig | Classifications | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|--|-------|--|---|---|--|---|---|---|---|
| BASIN: Upper Colorado River | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | METALS ug/l | | | | |
| Stream Segment Description | | | | | | | | | |
| 6c. Mainstem of un-named tributary to Willow Creek from the Willow Creek Reservoir Rd (Sec. 8, T2N, R76W) to the confluence Willow Creek (Sec. 17, T2N, R76W). | UP | Aq Life Cold 2 Recreation 2 Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 | As(ch)=100(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS | Cu(ac/ch)=TVS Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 7a. All tributaries to the Colorado River, including all wetlands, from a point immediately above the confluence with the Blue River to a point immediately below the confluence with the Roaring Fork River, which are not on National Forest lands, except for specific listings in Segment 7b and in the Blue River, Eagle River, and Roaring Fork River basins. | | Aq Life Cold 1 Recreation 2 Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 7b. Mainstem of Muddy Creek, including all tributaries, from the outlet of Wolford Mountain Reservoir to the confluence with the Colorado River; mainstems of Rock Creek, Deep Creek, Sheephorn Creek, Sweetwater Creek and the Piney River, including all tributaries, from their sources to their confluences with the Colorado River, which are not on National Forest lands. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 8. Mainstem of the Williams Fork River, including all tributaries and wetlands from the source to the confluence with the Colorado River, except for those tributaries listed in segment 9. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100m | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | Point of compliance for Fe and Mn at Aspen Canyon Ranch well. |
| 9. All tributaries to the Colorado and Fraser Rivers, including all wetlands, lakes and reservoirs, within the Never Summer, Indian Peaks, Byers, Eagles Nest and Flat Tops Wilderness Areas. | OW | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 10. Mainstem of the Fraser River, including all tributaries and wetlands from the source to the confluence with the Colorado River, except for those tributaries included in Segment 9. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |

**REGULATION NO. 33 UPPER COLORADO RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS**

| REGION:12 BASIN: Blue River | Design | Classifications | NUMERIC STANDARDS | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS | |
|--|--------|--|---|--|--|---|--|--|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | METALS ug/l | | | |
| Stream Segment Description 1. Mainstem of the Blue River from the source to Dillon Reservoir, except for specific listing in Segments 2a and 2b. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coll=200/100ml E.Coll=126/100ml | NH ₃ (ac)(ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ch)=TVS(tr) Cr(VI)(ac)=50(Trec) Cu(ac)(ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)(ch)=TVS Mn(ch)=WS Mn(ac)(ch)=TVS Hg(ch)=0.01(tot) | Ni(ac)(ch)=TVS Se(ac)(ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac)(ch)=TVS |
| | | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coll=200/100ml E.Coll=126/100ml | NH ₃ (ac)(ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)(ch)=4 Cr(VI)(ac)=50(Trec) Cu(ac)(ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)(ch)=TVS Mn(ch)=WS Mn(ac)(ch)=TVS Hg(ch)=0.01(tot) |
| 2a. Mainstem of the Blue River from the confluence with French Gulch to a point one half mile below Summit County Road 3. | UP | | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coll=200/100ml E.Coll=126/100ml | NH ₃ (ac)(ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)(ch)=126 ^(1,0168) (thawed-1,1021) Cr(VI)(ac)=50(Trec) Cu(ac)(ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)(ch)=TVS Mn(ch)=WS Mn(ac)(ch)=TVS Hg(ch)=0.01(tot) | Ni(ac)(ch)=TVS Se(ac)(ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac)(ch)=TVS Hg(ch)=0.01(tot) |
| 2b. Mainstem of the Blue River from a point one half mile below Summit County Road 3 to the confluence with the Swan River. | | | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coll=200/100ml E.Coll=126/100ml | NH ₃ (ac)(ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)(ch)=TVS Cr(VI)(ac)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)(ch)=TVS Mn(ch)=WS Mn(ac)(ch)=TVS Hg(ch)=0.01(tot) | Ni(ac)(ch)=TVS Se(ac)(ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac)(ch)=TVS |
| 3. Dillon Reservoir, including all direct tributaries and all tributaries, wetlands, lakes and reservoirs in the Blue River drainage above Dillon Reservoir, except for specific listings in Segments 1, 2, 5, 6, 10, 11, 12, 13 and 14. | | | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coll=200/100ml E.Coll=126/100ml | NH ₃ (ac)(ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cr(VI)(ac)=50(Trec) Cu(ac)(ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)(ch)=TVS Mn(ch)=WS Mn(ac)(ch)=TVS Hg(ch)=0.01(tot) | Ni(ac)(ch)=TVS Se(ac)(ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac)(ch)=TVS |
| 4. Deleted. | | | | | | | | |
| 5. Mainstem of Soda Creek from the source to Dillon Reservoir. | | | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coll=200/100ml E.Coll=126/100ml | NH ₃ (ac)(ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cr(VI)(ac)=50(Trec) Cu(ac)(ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)(ch)=TVS Mn(ch)=WS Mn(ac)(ch)=TVS Hg(ch)=0.01(tot) | Ni(ac)(ch)=TVS Se(ac)(ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac)(ch)=TVS |
| 6. Mainstem of the Snake River, including all tributaries and wetlands from the source to Dillon Reservoir, except for specific listings in Segments 7, 8 and 9. | UP | | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coll=200/100ml E.Coll=126/100ml | NH ₃ (ac)(ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cr(VI)(ac)=50(Trec) Cu(ac)(ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)(ch)=TVS Mn(ch)=WS Mn(ac)(ch)=TVS Hg(ch)=0.01(tot) | Ni(ac)(ch)=TVS Se(ac)(ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac)(ch)=TVS |
| 7. Mainstem of Peru Creek, including all tributaries and wetlands from the source to the confluence with the Snake River, except for specific listing in Segment 8. | UP | | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coll=2000/100ml E.Coll=630/100ml | NH ₃ (ac)(ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cr(VI)(ac)=50(Trec) Cu(ac)(ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)(ch)=TVS Mn(ch)=WS Mn(ac)(ch)=TVS Hg(ch)=0.01(tot) | Ni(ac)(ch)=TVS Se(ac)(ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac)(ch)=TVS |

Special standards for
Dillon Reservoir only: Total
Phosphorus as P=0.0074
mg/l in the top 15 meters
of the water column for the
months of July, August,
September & October.

Temporary modifications:
Type III
Cd(ch)=2.3
Cu(ch)=17
no Zn(ac)
Zn(ch)=654
Effective until 2/28/09.

Temporary modifications:
no Cd(ac)
Se(ac)(ch)=TVS
Cd(ch)=5.2
Cu(ch)=79
Pb(ch)=6.7
no Zn(ac)
Zn(ch)=1,380
Effective until 2/28/09.

REGULATION NO. 33 UPPER COLORADO RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION:12 | | Desig | Classifications | NUMERIC STANDARDS | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS | |
|----------------------------|---|-------|--|--|---|--|---|--|--|---|
| BASIN: Blue River | | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | | METALS ug/l | | | |
| Stream Segment Description | | | | | | | | | | |
| 8. | Mainstem of Keystone Gulch, including all tributaries and wetlands from the source to the confluence with the Snake River. Mainstem of Chihuahua Creek including all tributaries, and wetlands from the source to the confluence with Peru Creek. Mainstem of the North Fork of the Snake River, including all tributaries and wetlands from the source to the confluence with the Snake River. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 9. | Mainstem of Deer Creek, including all tributaries and wetlands from the source to the confluence with the Snake River. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 10. | Mainstem of French Gulch including all tributaries and wetlands from the source to a point 1.5 miles below Lincoln. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 11. | Mainstem of French Gulch from a point 1.5 miles below Lincoln to the confluence with the Blue River. | UP | Aq Life Cold 1 Recreation 1b Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=325/100ml E.Coli=205/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 | Ac(ch)=100(Trec) Cd(ac/ch)=existing quality CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac)=TVS | Cu(ch)=TVS Fe(ch)=1000(Trec) Pb(ac/ch)=existing quality Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=existing quality | |
| 12. | Mainstem of Illinois Gulch and Fredonia Gulch from their source to their confluence with the Blue River. | UP | Aq Life Cold 2 Recreation 1b Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=325/100ml E.Coli=205/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | Temporary Modification: Zn(ch)=850 Effective until 2/28/09 for Illinois Gulch |
| 13. | Mainstem of Tenmile Creek from the Climax Parshall Flume to a point immediately above the confluence of West Tenmile Creek and all tributaries and wetlands from the source of West Tenmile Creek to a point immediately above the confluence with West Tenmile Creek, except for the specific listing in Segment 15. | | Aq Life Cold 1 Recreation 1b Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=325/100ml E.Coli=205/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 | As(ch)=100(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS Cr(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS | Cu(ac/ch)=TVS Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 14. | Mainstem of Tenmile Creek, including all tributaries and wetlands from a point immediately above the confluence with West Tenmile Creek to Dillon Reservoir, except for the specific listing in Segment 16. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 15. | Mainstem of Clinton Creek from the source to the confluence with Tenmile Creek. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |

REGULATION NO. 33 UPPER COLORADO RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION:12 | Desig | Classifications | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|---|-------|--|---|---|--|---|--|---|--|
| BASIN: Blue River | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | | METALS ug/l | | | |
| Stream Segment Description | | | | | | | | | |
| 16. All tributaries to the Blue River, including all wetlands, lakes and reservoirs, within the Eagles Nest and Ptarmigan Peak Wilderness Areas. | OW | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 17. Mainstem of the Blue River from the outlet of Dillon Reservoir to the confluence with the Colorado River. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 18. All tributaries to the Blue River, including all wetlands, from the outlet of Dillon Reservoir to the outlet of Green Mountain Reservoir, except for the specific listing in Segment 16. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 19. All tributaries to the Blue River, including all wetlands, from the outlet of Green Mountain Reservoir to the confluence with the Colorado River, except for specific listings in Segment 20. | | Aq Life Cold 1 Recreation 2 Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 20. Mainstems of Elliot Creek and Spruce Creek including all tributaries and wetlands, from their sources to the confluence with the Blue River. | | Aq Life Cold 1 Recreation 2 Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |

REGULATION NO. 33 UPPER COLORADO RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION:12 BASIN: Eagle River | Desig | Classifications | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|---|------------------------------------|--|--|---|--|---|--|--|--|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | | | METALS ug/l | | |
| Stream Segment Description | | | | | | | | | |
| 1. All tributaries and wetlands to the Eagle River system within the Gore Range - Eagles Nest Wilderness Area and Holy Cross Wilderness Area. | OW ¹ | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| ¹ Consistent with the provisions of section 25-8-104 C.R.S. the OW designation shall not apply with respect to the Homestake Water Project of the Cities of Aurora and Colorado Springs. | | | | | | | | | |
| 2. Mainstem of The Eagle River from the source to the compressor house bridge at Belden. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 3. All tributaries to the Eagle River, including wetlands, from the source to the compressor house bridge at Belden, except for the specific listing in Segment 4 and those waters included in Segment 1. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 4. Mainstem of Homestake Creek from the confluence of the East Fork to the confluence with the Eagle River. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 5a. Mainstem of the Eagle River from a point immediately above the compressor house bridge at Belden to a point immediately above the Highway 24 Bridge near Tigwon Road. | 9/30/00 Baseline does not apply | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ch)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS | Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac)=TVS Zn(ch)=106 | Seasonal Temporary Modifications type iii effective through 1/1/09. March 1 through April 30 Zn(ac)=472 Zn(ch)=410 May 1 through February 29 Zn(ac)=178 Zn(ch)=166 |
| 5b. Mainstem of the Eagle River from a point immediately above the Highway 24 Bridge near Tigwon Road to a point immediately above the confluence with Martin Creek. | 9/30/00 Baseline does not apply | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ch)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS | Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac)=TVS Zn(ch)=106 | Seasonal Temporary Modifications type iii effective through 1/1/09. March 1 through April 30 Zn(ac)=332 Zn(ch)=310 May 1 through February 29 Zn(ac)=153 Zn(ch)=123 |

REGULATION NO. 33 UPPER COLORADO RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION:12 BASIN: Eagle River | Desig | Classifications | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|---|------------------------------------|--|--|---|--|---|--|--|--|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | | | METALS ug/l | | |
| Stream Segment Description | | | | | | | | | |
| 5c. Mainstem of the Eagle River from a point immediately above Martin Creek to a point immediately above the confluence with Gore Creek. | 9/30/00 Baseline does not apply | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ch)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS | Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac)=TVS Zn(ch)=106 | Seasonal Temporary Modifications type iii effective through 1/1/09. March 1 through April 30 Zn(ac)=275 Zn(ch)=257 May 1 through February 29 Zn(ac)=127 Zn(ch)=TVS |
| 6. All tributaries to the Eagle River, including all wetlands, from the compressor house bridge at Belden to a point immediately below the confluence with Lake Creek, except for the specific listings in Segments 1, 7 and 8. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 7a. Mainstem of Cross Creek from the source to a point immediately below the Minturn Middle School, except for those waters included in Segment 1. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ch)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 7b. Mainstem of Cross Creek from a point immediately below the Minturn Middle School to the confluence with the Eagle River, except for those waters included in Segment 1. | 9/30/00 Baseline does not apply | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | Seasonal Temporary Modifications type iii effective through 1/1/09. March 1 through April 30 Zn(ac)=254 Zn(ch)=193 May 1 through February 29 Zn(ac)=120 Zn(ch)=116 |

REGULATION NO. 33 UPPER COLORADO RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION:12 | Desig | Classifications | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|--|-------|--|--|---|--|---|--|---|--|
| BASIN: Eagle River | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | | METALS ug/l | | | |
| Stream Segment Description | | | | | | | | | |
| 8. Mainstem of Gore Creek from the confluence with Black Gore Creek to the confluence with the Eagle River. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 9. Mainstem of the Eagle River from Gore Creek to the confluence with the Colorado River. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 10. All tributaries to the Eagle River, including all wetlands, from a point immediately below the confluence with Lake Creek to the confluence with the Colorado River, except for specific listings in Segments 11 and 12, and those waters included in Segment 1. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 11. Mainstem of Alkali Creek from the source to the confluence with the Eagle River; mainstem of Milk Creek from the source to the confluence with the Eagle River. | UP | Aq Life Cold 2 Recreation 1b Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=325/100ml E.Coli=205/100ml | CN(ac)=0.2 NO ₂ (ac)=10 NO ₃ (ac)=100 | B=0.75 Cl=250 | As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec) | CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mn(ch)=200(Trec) | Ni(ch)=200(Trec) Se(ac/ch)=TVS Zn(ch)=2000(Trec) | |
| 12. Mainstem of Brush Creek, from the source to the confluence with the Eagle River, including the East and West Forks. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |

REGULATION NO. 33 UPPER COLORADO RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION:12 | Desig | Classifications | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|--|-------|--|--|---|--|---|--|---|--|
| BASIN: Roaring Fork River | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | | | METALS ug/l | | |
| Stream Segment Description | | | | | | | | | |
| 1. All tributaries to the Roaring Fork River system, including all wetlands, lakes and reservoirs, within the Maroon Belts/Snowmass, Holy Cross, Raggeds, Collegiate Peaks and the Hunter/Fryingpan Wilderness Areas. | OW | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 2. Mainstem of the Roaring Fork River, including all tributaries and wetlands, from the source to a point immediately below the confluence with Hunter Creek, except for those tributaries included in Segment 1. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 3a. Mainstem of the Roaring Fork River, including all tributaries and wetlands, from a point immediately below the confluence with Hunter Creek, to the confluence with the Colorado River except for those tributaries included in Segment 1 and specific listings in Segments 3b through 10. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 3b. Mainstem of Red Canyon and all tributaries and wetlands from the source to the confluence with the Roaring Fork River, except for Landis Creek from its source to the Hopkins Ditch Diversion. | UP | Aq Life Cold 2 Recreation 2 Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 4. Mainstem of Brush Creek from the source to the confluence with the Roaring Fork River. | UP | Aq Life Cold 1 Recreation 1a Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 | As(ch)=100(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 5. Mainstem of the Fryingpan River from the source to the confluence with the North Fork. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 6. Mainstem of the Fryingpan River from the confluence with the North Fork to the confluence with the Roaring Fork River. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 7. All tributaries to the Fryingpan River system, including all wetlands, except for those tributaries included in Segment 1. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |

REGULATION NO. 33 UPPER COLORADO RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION:12 | Desig | Classifications | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|--|-------|---|--|---|--|---|--|---|--|
| BASIN: Roaring Fork River | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | METALS ug/l | | | | |
| Stream Segment Description | | | | | | | | | |
| 8. Mainstem of the Crystal River, including all tributaries and wetlands, from the source to the confluence with the Roaring Fork River, except for specific listings in Segments 1, 9 and 10. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=8.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 9. Mainstem of Coal Creek including all tributaries and wetlands from the source to the confluence with the Crystal River. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 10. Mainstem of Thompson Creek including all tributaries and wetlands from the source to the confluence with the Crystal River. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |

REGULATION NO. 33 UPPER COLORADO RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION:12 BASIN: North Platte River | Desig | Classifications | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|---|-------|---|---|---|--|--|---|---|--|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | METALS ug/l | | | | |
| Stream Segment Description | | | | | | | | | |
| 1. All tributaries to the North Platte and Encampment Rivers, including all wetlands, lakes and reservoirs, within the Mount Zirkel, the Never Summer, and the Platte River Wilderness Areas. | OW | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 2. Mainstem of the Encampment River, including all tributaries, wetlands, lakes and reservoirs from the source to the Colorado/Wyoming border, except for those tributaries included in Segment 1. | | Aq Life Cold 1 Recreation 1b Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=325/100ml E.Coli=205/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 3. Mainstem of the North Platte River from the confluence of Grizzly Creek and Little Grizzly Creek to the Colorado/Wyoming border. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 4. All tributaries to the North Platte River system, including all wetlands, lakes and reservoirs, except for those tributaries included in Segment 1, and specific listings in Segments 5, 6 and 7. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ch)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Mn(ch)=WS Mn(ac/ch)=TVS Pb(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 5a. Mainstem of the Michigan River from the source to the Colorado State Forest boundary. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS | Cu(ac/ch)=TVS Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Mn(ch)=WS Mn(ac/ch)=TVS Pb(ac/ch)=TVS | Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 5b. Mainstem of the Michigan River from the Colorado State Forest boundary to the confluence with the North Platte River. | | Aq Life Cold 1 Recreation 2 Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ch)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=TVS(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS | Cu(ac/ch)=TVS Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Mn(ch)=WS Mn(ac/ch)=TVS Pb(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 6. Mainstem of Pinkham Creek from the Routt National Forest boundary to the confluence with the North Platte River. | | Aq Life Cold 1 Recreation 2 Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =100 | As(ch)=100(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 7. Mainstem of Government Creek from the boundary of the Colorado State Forest to the confluence with the Canadian River. Mainstem of Spring Creek from the source to the confluence with Illinois River. | UP | Aq Life Cold 2 Recreation 2 Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =100 | As(ch)=100(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | Water + Fish organics apply |

REGULATION NO. 33 UPPER COLORADO RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION:12 BASIN: Yampa River | | Desig | Classifications | NUMERIC STANDARDS | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS | |
|---------------------------------|---|-------|--|---|---|--|---|--|---|---|
| Stream Segment Description | | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | METALS ug/l | | | | |
| 1. | All tributaries to the Yampa River, including all wetlands, lakes and reservoirs, which are within the Mount Zirkel, Flat Tops and Sarvis Creek Wilderness Areas. | OW | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 2a. | Mainstem of the Yampa River from the confluence with Wheeler Creek to the confluence with Elkhead Creek, except for segment 2b. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 2b. | All lakes and reservoirs tributary to the Yampa River from the source to the confluence with Elkhead Creek, except for those listed in Segment 1. All lakes and reservoirs tributary to Elkhead Creek from the source to the confluence with the Yampa River. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 3. | All tributaries to the Yampa River, including all wetlands, from the source to the confluence with Elk River, except for specific listings in Segments 1, 4, 5, 6, 7, 8, 13 and 19. Mainstem of the Bear River, including all tributaries and wetlands from the boundary of the Flat Tops Wilderness Area to the confluence with the Yampa River. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 4. | Mainstem of Little White Snake Creek from the source to the confluence with the Yampa River. | UP | Aq Life Cold 2 Recreation 2 Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml | CN=0.005 S=0.002 B=0.75 NO ₂ =0.05 | NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50 Cd(ac)=5 CrIII(ac)=50 CrVI(ac)=50 Cu(ch)=200 | Fe(ch)=WS(dis) Pb(ac)=50 Mn(ch)=WS Mn(ac/ch)=TVS Hg(ac)=2.0 | Ni(ch)=100 Se(ch)=20 Ag(ac)=100 Zn(ac/ch)=2000 | All metals are Trec unless otherwise noted. |
| 5. | Mainstem of Chimney Creek, including all tributaries and wetlands, which are not on National Forest lands, from the source to the confluence with the Yampa River. | | Aq Life Cold 1 Recreation 1b Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=325/100ml E.Coli=205/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 | As(ch)=100(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS | Cu(ac/ch)=TVS Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 6. | Mainstem of Oak Creek, including all tributaries and wetlands, from the source to the point of discharge of the Oak Creek wastewater treatment plant. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 7. | Mainstem of Oak Creek, including all tributaries and wetlands, from the point of discharge of the Oak Creek wastewater treatment plant to the confluence with the Yampa River. | | Aq Life Cold 1 Recreation 1b Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=325/100ml E.Coli=205/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 | As(ch)=100(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS | Cu(ac/ch)=TVS Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 8. | Mainstem of the Elk River including, all tributaries and wetlands, from the source to the confluence with the Yampa River, except for those tributaries included in Segment 1. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 9. | Deleted. | | | | | | | | | |
| 10. | Deleted | | | | | | | | | |
| 11. | Deleted | | | | | | | | | |

REGULATION NO. 33 UPPER COLORADO RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION:12 BASIN: Yampa River | Desig | Classifications | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|--|-------|---|---|---|---|--|---|--|---|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | METALS ug/l | | | | |
| Stream Segment Description | | | | | | | | | |
| 12. All tributaries to the Yampa River, including all wetlands, from the confluence with the Elk River to the confluence with Elkhead Creek, which are not on National Forest lands, except for specific listings in Segments 13a, 13b, 13c, 13d and 13e. | UP | Aq Life Cold 2 Recreation 2 Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml | CN(ac)=0.2 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =100 | As(ac)=100 Cd(ch)=10 CrIII(ch)=100 CrVI(ch)=100 Cu(ac)=200 | Pb(ch)=100 Mn(ch)=200 Ni(ch)=200 | Se(ch)=20 Zn(ch)=2000 | All metals are Trec unless otherwise noted. |
| 13a. Mainstem of Trout Creek, including all tributaries and wetlands, from the source to the confluence with the Yampa River, which are not on National Forest lands, except for specific listings in Segments 13b and 13c. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | Temporary modification. NH ₃ (ac/ch)=TVS(old) (Type I). Expiration date of 12/31/2011. |
| 13b. Mainstem of Foidel Creek, including all tributaries and wetlands. Mainstem Fish Creek, including all tributaries from County Road 27 downstream to the confluence with Trout Creek. Middle Creek and all tributaries, from County Road 27 downstream to the confluence with Trout Creek. | | Aq Life Cold 1 Recreation 1a Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 | As(ch)=100(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Fish Creek Fe(ch)=1600(Trec) Foidel Creek and Middle Creek Pb(ac/ch)=TVS | Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 13c. Mainstem of Trout Creek from headgate of Spruce Hill Ditch (approximately 2,500 feet north of where County Road 27 crosses Trout Creek) to its confluence with Fish Creek. All tributaries to Trout Creek from the headgate of Spruce Hill Ditch (approximately 2,500 feet north of where County Road 27 crosses Trout Creek) to County Road 179 except for specific listings in 13b. | | Aq Life Cold 1 Recreation 1a Agriculture June through February Water Supply | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 June through February NO ₃ =10 Cl=250 SO ₄ =WS | As(ch)=100(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS June through February As(ac)=50(Trec) CrIII(ac)=50(Trec) | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) June through February Fe(ch)=WS(dis) Mn(ch)=WS | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 13d. Mainstem of Dry Creek, including all tributaries and wetlands, from the source to the confluence with the Yampa River. | UP | Aq Life Warm 2 Recreation 1a Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 | As(ac)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |
| 13e. Mainstems of Sage Creek and Grassy Creek, including all tributaries and wetlands, from their sources to the confluence with the Yampa River. | UP | Aq Life Warm 2 Recreation 2 Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 | As(ac)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |
| 14. Mainstem of Elkhead Creek, including all tributaries and wetlands, from the boundary of the National Forest lands, to the confluence with the Yampa River. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 15. Deleted. | | | | | | | | | |
| 16. Deleted. | | | | | | | | | |
| 17. Deleted. | | | | | | | | | |

REGULATION NO. 33 UPPER COLORADO RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION:12 | Desig | Classifications | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|---|-------|--|--|---|--|---|--|---|--|
| BASIN: Yampa River | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | METALS ug/l | | | | |
| Stream Segment Description | | | | | | | | | |
| 18. Mainstem of the Little Snake River, including all tributaries and wetlands, from the Routt National Forest boundary to the Colorado/Wyoming border. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 19. All tributaries to the Little Snake River, including all wetlands, lakes and reservoirs, which are on National Forest lands in Routt County. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 20. All tributaries to the Yampa River, including wetlands, above the confluence with Elkhead Creek that are within National Forest boundaries. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |

Appendix C-2 Regulation No. 38 South Platte River Basin

**REGULATION NO. 38 SOUTH PLATTE RIVER BASIN
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS**

| REGION: 3 AND 4 BASIN: UPPER SOUTH PLATTE RIVER Stream Segment Description | DESIG | CLASSIFICATIONS | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|---|-------|--|---|---|--|---|---|---|--|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | METALS ug/l | | | | |
| 1a. Mainstem of the South Platte River from the source of the South and Middle Forks to a point immediately above the confluence with the North Fork of the South Platte River, including all mainstem reservoirs. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5 - 9.0 F. Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 1b. All tributaries to the South Platte River, including lakes, reservoirs and wetlands within the Lost Creek and Mt. Evans Wilderness Areas. | OW | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F. Coli.=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 2a. All tributaries to the South Platte River system, including all lakes, reservoirs and wetlands from the headwaters of the South and Middle Forks to a point immediately below the confluence with Tarryall Creek except for specific listings in Segment 1b, 2b and c. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F. Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 2b. Mainstem of Mosquito Creek from the confluence with South Mosquito Creek to its confluence with the Middle Fork of the South Platte River. | UP | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F. Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ch)=220 | Temporary modification: Zn(ch)= 283µg/l (dis), based on uncertainty. Expiration date 2/28/07 |
| 2c. South Mosquito Creek from the source to confluence with Mosquito Creek and No Name Creek from the source to the confluence with South Mosquito Creek. | UP | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F. Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ch)=280 | Temporary modifications Cd(ch)=3.3 µg/l (dis), Zn(ch)=400 µg/l (dis) based on uncertainty. Expiration date 2/28/07. |
| 3. All tributaries to the South Platte River, including all lakes, reservoirs and wetlands from a point immediately below the confluence with Tarryall Creek to a point immediately above the confluence with the North Fork of the South Platte River, except for specific listings in Segment 1b. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F. Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 4. Mainstem of the North Fork of the South Platte River, including all tributaries, lakes, reservoirs and wetlands from the source to the confluence with the South Platte River, except for specific listings in Segments 1b, 5a, 5b, and 5c. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F. Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 5a. Mainstem of Geneva Creek from the source to the confluence with Scott Gomer Creek. | | Aq Life Cold 1 Recreation 1a Agriculture | D.O.=6.0 mg/l D.O. (sp)=7.0 mg/l pH = 3.5-9.0 F. Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 NO ₃ =0.05 | As(ch)=100(Trec) Cd(ch)=2 CrIII(ch)=100 CrVI(ch)=25 Cu(ch)=18(dis) | Fe(ch)=1200 Pb(ch)=4 Mn(ch)=530(dis) Hg(ch)=0.05 Ni(ch)=50 | Se(ch)=4.6 Ag(ch)=1 Zn(ch)=190(dis) | All Metals Trec unless otherwise noted. |

REGULATION NO. 38 SOUTH PLATTE RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION: 3 AND 4 BASIN: UPPER SOUTH PLATTE RIVER Stream Segment Description | DESIG | CLASSIFICATIONS | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|--|-------|---|---|---|--|--|--|--|---|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | | METALS ug/l | | | |
| 5b. Mainstem of Geneva Creek from the confluence with Scott Gomer Creek to the confluence with the North Fork of the South Platte River; all tributaries of Geneva Creek including lakes, reservoirs and wetlands from source to confluence with the North Fork of the South Platte River. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F. Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 | CN=0.005 S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 5c. Mainstem of Gooseberry Gulch and all tributaries from source to confluence with Elk Creek. | UP | Aq Life Cold 2 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l pH=6.5-9.0 F. Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | Temporary modification: NH ₃ (ac/ch)=Existing Quality(Type iii). Expiration date of 12/31/2010. |
| 6a. Mainstem of the South Platte River from a point immediately above the confluence with the North Fork of the South Platte River to the inlet of Chatfield Reservoir. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F. Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 6b. Chatfield Reservoir. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F. Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | Mean total phosphorous P=0.027 mg/L measured throughout the water column in Chatfield Reservoir only for months of July, August and September. |
| 6c. Mainstem of the South Platte River from the outlet of Chatfield Reservoir to Bowles Avenue. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F. Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS* | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac)=TVS Mn(ch)=90ug/l(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | *Cu (ac/ch) = TVS *2.7 below the confluence with Marcy Gulch to Bowles Avenue. |
| 7. All tributaries to the South Platte River, including all lakes, and reservoirs and wetlands from a point immediately below the confluence with the North Fork of the South Platte River to the outlet of Chatfield Reservoir except for specific listings in Segments 8, 9, 10, 11, 12, and 13. | UP | Aq Life Cold 2 Recreation 1a Agriculture | D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F. Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 | As(ch)=100(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS Cr III(ac)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 8. Mainstems of East and West Plum Creek from the source to the boundary of National Forest lands, including all tributaries, lakes, reservoirs and wetlands within the Plum Creek drainage which are on National Forest Lands, except for the specific listing in Segments 9 and 10b. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F. Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 9. Mainstem of Bear Creek, including all tributaries, lakes, and reservoirs, and wetlands from the source to the inlet of Perry Park Reservoir (Douglas County). | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F. Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 10a. Mainstem of East and West Plum Creek and Plum Creek from the boundary of National Forest lands to Chatfield Reservoir, except for specific listings in Segment 10b | UP | Aq Life Warm 1 Recreation 1a Water Supply Agriculture | D.O. = 5.0 mg/l pH = 6.5-9.0 F. Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS* | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) | Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | *Cu (ac/ch) = TVS *2.4 on East Plum Creek and Plum Creek below the Plum Creek Wastewater Authority Discharge. Temporary modification: NH ₃ (ac/ch)=TVS(old)(Type i). Expiration date of 12/31/2011. |

REGULATION NO. 38 SOUTH PLATTE RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION 2,3 & 4 BASIN UPPER SOUTH PLATTE RIVER Stream Segment Description | DESIG | CLASSIFICATIONS | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|--|-------|--|---|---|--|--|--|---|---|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | | METALS ug/l | | | |
| 10b. Mainstem of West Plum Creek including all tributaries, lakes, reservoirs, and wetlands from its source to Perry Park Pond. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O. (sp)=7.0 mg/l pH=6.5-9.0 F. Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 11a. All tributaries to the East Plum Creek system, including all lakes, reservoirs and wetlands which are not on national forest lands. | UP | Aq Life Warm 2 Recreation 1a Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F. Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₃ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |
| 11b. All tributaries to the West Plum Creek system, including all lakes, reservoirs and wetlands, which are not on national forest lands, except for specific listings in Segments 9 and 12. | UP | Aq Life Warm 2 Recreation 1a Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F. Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₃ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Temporary modification: NH ₃ (ac/ch)=TVS(old) (Type i). Expiration date of 12/31/2011. |
| 12. Mainstem of Garber Creek and Jackson Creek from the boundary of National Forest lands to the confluence with West Plum Creek. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O. (sp)=7.0 mg/l pH=6.5-9.0 F. Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 13. Mainstem of Deer Creek, including the North and South Forks, from the source to Chatfield Reservoir. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O. (sp)=7.0 mg/l pH=6.5-9.0 F. Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 14. Mainstem of the South Platte River from Bowles Avenue in Littleton, Colorado, to the Burlington Ditch diversion in Denver, Colorado. | | Aq Life Warm 1 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F. Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS*2.8 Fe(ch)=WS(dis) | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=190(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Temporary modification: NH ₃ (ac/ch)=TVS(old) (Type i). Expiration date of 12/31/2011. |
| 15. Mainstem of the South Platte River from the Burlington Ditch diversion in Denver, Colorado, to a point immediately below the confluence with Big Dry Creek. | UP | Aq Life Warm 2 Recreation 1a Water Supply Agriculture | D.O.* pH= 6.5-9.0** F. Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =1.0 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS*2.3 Fe(ch)=WS(dis) | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=400(dis) Mn(ac/ch)=TVS Hg(ac)=2.4(dis) Hg(ch)=0.4(dis) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | *See attached table for site-specific Dissolved Oxygen and Ammonia standards. **pH=6.0-9.0 from 64 th Ave. downstream 2 miles. Temporary modifications: NH ₃ (ac/ch)=TVS(old) (Type i). Expiration date of 12/31/2014. |
| 16a. Mainstem of Sand Creek from the confluence of Murphy and Coal Creek in Arapahoe County to the confluence with the South Platte River. | UP | Aq Life Warm 2 Recreation 1a Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F. Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₃ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS* | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac)=TVS Se(ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Temporary modifications: Se(ch)= 19.3 ug/l Se(ac)=no acute standard. type iii Expiration date of 2/28/10. NH ₃ (ac/ch)=TVS(old)(Type i). Expiration date of 12/31/2011. *Cu (ac/ch) = TVS *2.6 below the Sand Creek Water Reuse Facility outfall. |

REGULATION NO. 38 SOUTH PLATTE RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION: 2,3 & 4 BASIN: UPPER SOUTH PLATTE RIVER | DESIG | CLASSIFICATIONS | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|---|-------|--|---|---|--|--|---|---|--|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | | METALS ug/l | | | |
| 16b. Aurora Reservoir. | | Aq Life Warm 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 16c. All tributaries to the South Platte River, including all lakes, reservoirs and wetlands, from the outlet of Chatfield Reservoir, to a point immediately below the confluence with Big Dry Creek, except for specific listings in the subbasins of the South Platte River, and in Segments 16a, 16b, 16d, 16e, 16f, 16g, 17a, 17b, and 17c. | UP | Aq Life Warm 2 Recreation 1a Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Fish Ingestion Organics Temporary modifications: East & West Toll Gate Creeks, Toll Gate Creek Se(ch)=18µg/l(dis). Se(ac)=no acute standard. type iii Expiration date of 2/28/10. NH ₃ (ac/ch)=TVS(old)(Type i). Expiration date of 12/31/2011. |
| 16d. Second Creek from the source to the O'Brian Canal. | UP | Aq Life Warm 2 Recreation 1a Agriculture | D.O. (ch)=3.3 mg/l pH=6.5-9.0 F.Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | 15 th percentile of D.O. measurements collected between 6:30 a.m. and 6:30 p.m. |
| 16e. Third Creek from the source to the O'Brian Canal. | UP | Aq Life Warm 2 Recreation 1a Agriculture | D.O. (ch)=4.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | 15 th percentile of D.O. measurements collected between 6:30 a.m. and 6:30 p.m. |
| 16f. Barr Lake Tributary from the source to the Denver Hudson Canal. | UP | Aq Life Warm 2 Recreation 1a Agriculture | D.O. (ch)= ¹ pH=6.5-9.0 F.Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | When water is present, D.O. concentrations shall be maintained at levels that protect classified uses. |
| 16g. Marcy Gulch from, including all lakes, reservoirs, and wetlands from the source to the confluence with the South Platte. | UP | Aq Life Warm 2 Recreation 1a Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS* | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | *Cu (ac/ch) = TVS *2.4 below the Centennial Wastewater Treatment Facility outfall. Temporary modification: NH ₃ (ac/ch)=TVS(old)(Type i). Expiration date of 12/31/2011. |
| 17a. Washington Park Lakes, City Park Lake, Rocky Mountain Lake, Berkely Lake. | UP | Aq Life Warm 1 Recreation 1a Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |
| 17b. Sloan's Lake. | | Aq Life Warm 1 Recreation 1a Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |
| 17c. Bowles Lake, a.k.a. Patrick Reservoir or Bow Mar Lake. | | Aq Life Warm 1 Recreation 1a Agriculture | D.O.=5.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E. Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | Al(ac/ch)=TVS As(ch)=100(Trec) Cd(ac/ch)=TVS Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |

UPPER SOUTH PLATTE RIVER SEGMENT 15

Site-Specific Minimum Dissolved Oxygen and Ammonia Standards

UNDERLYING STANDARDS

Dissolved Oxygen

Early Life Stage Protection Period (April 1 through July 31)

1-Day^{1,5,6} 3.0 mg/L (acute)

7-Day Average^{1,2,4} 5.0 mg/L

Older Life Stage Protection Period (August 1 through March 31)

1-Day^{1,5} 2.0 mg/L (acute)

7-Day Mean of Minimums^{1,3} 2.5 mg/L

30-Day Average^{1,2} 4.5 mg/L

TEMPORARY MODIFICATION

During the period until October 31, 2001, the Segment 15 dissolved oxygen standards from 88th Avenue north to the end of the Segment shall be the currently existing ambient conditions as monitored in 1992, 1993, and 1994 by the Division and by the Metro District. Beginning November 1, 2001, the standards shall apply to all sections of Segment 15 south of the Brighton Ditch diversion. The standards north of the Brighton Ditch diversion shall continue to be the ambient conditions existing in 1992, 1993, and 1994. Beginning November 1, 2004, the standards shall apply to all sections of Segment 15.

Footnotes

1. For the purposes of determining compliance with the standards, dissolved oxygen measurements shall only be taken in the flowing portion of the stream at mid-depth, and at least six inches above the bottom of the channel. All sampling protocols and test procedures shall be in accordance with procedures and protocols approved by the Division.
2. A minimum of four independent daily means must be used to calculate the average for the 7-Day Average standard. A minimum of eight independent daily means must be used to calculate the average for the 30-Day Average standard. The four days and the eight days must be representative of the 7-Day and the 30-Day periods respectively. The daily means shall be the mean of the daily high and low values. In calculating the mean values, the dissolved oxygen saturation value shall be used in place of any dissolved oxygen measurements which exceed saturation.
3. The 7-Day Mean minimum is the average of the daily minimums measured at the location on each day during any 7-Day period.
4. North of the Lupton Bottoms Ditch diversion, the ELS 7-Day average standards for the period July 1 – June 31 shall be 4.6 mg/L.
5. During a 24 hour day dissolved oxygen levels are likely to be lower during the nighttime when there is no photosynthesis. The dissolved oxygen levels should not drop below the acute standard (ELS acute standard of 3.0 mg/L or the OLS standards of 2.0 mg/L). However, if during the ELS period multiple measurements are below 3.0 mg/L during the same nighttime period, the multiple measurements shall be considered a single exceedance of the acute standard. For measurements below 2.0 mg/L during either the ELS or the OLS periods, each hourly measurement below 2.0 mg/L shall be considered an exceedance of the acute standards.
6. In July, the dissolved oxygen level in Segment 15 may be lower than the 3.0 mg/L acute standard for up to 14 exceedances in any one year and up to a total of 21 exceedances in three years before there is a determination that the acute dissolved oxygen standards is not being met. Exceedances shall be counted as described in Footnote 5.

Ammonia:

Early Life Stage Protection Period (April 1 through July 31)

Ammonia

Warm Water = (mg/l as N)Total

$$acute = \frac{0.411}{1 + 10^{7.204 - pH}} + \frac{58.4}{1 + 10^{pH - 7.204}}$$

$$chronic (Apr1 - July31) = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * MIN \left(2.85, 1.45 * 10^{0.028(25 - T)} \right)$$

$$chronic (Aug1 - Mar31) = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * 1.45 * 10^{0.028 * (25 - MAX(T, 7))}$$

NH₃ = old TVS

Warm Water Acute = 0.62/FT/FPH/2^(4 old) in mg/ (N)

REGULATION NO. 38 SOUTH PLATTE RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION: 3 AND 4 BASIN: CHERRY CREEK Stream Segment Description | DESIG | CLASSIFICATIONS | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|--|-------|--|--|---|---|--|---|--|---|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | | | METALS ug/l | | |
| 1. Mainstem of Cherry Creek from the source of East and West Cherry Creek to the inlet of Cherry Creek Reservoir. | UP | Aq Life Warm 2 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS Fe(ch)=WS(dis) | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |
| 2. Cherry Creek Reservoir. | | Aq Life Warm 1 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml Season mean chlorophyll a = 15 µg/l measured in the upper three meters of the water column for the months of July through September | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |
| 3. Mainstem of Cherry Creek from the outlet of Cherry Creek Reservoir to the confluence with the South Platte River. | UP | Aq Life Warm 2 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS Fe(ch)=WS(dis) | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Temporary modification: NH ₃ (ac/ch)=TVS(old) (Type i). Expiration date of 12/31/2011. |
| 4. All tributaries to Cherry Creek, including all lakes, reservoirs and wetlands, from the source of East and West Cherry Creeks to the confluence with the South Platte River, except for specific listings in Segment 2. | UP | Aq Life Warm 2 Recreation 1a Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Temporary modification: NH ₃ (ac/ch)=TVS(old) (Type i). Expiration date of 12/31/2011. |

REGULATION NO. 38 SOUTH PLATTE RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION 3 BASIN BEAR CREEK Stream Segment Description | DESIG | CLASSIFICATIONS | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS | |
|---|-------|--|--|---|--|---|---|---|--|--|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC | | | METALS | | | |
| | | | | mg/l | | | ug/l | | | |
| 1a. Mainstem of Bear Creek from the source to Harriman Ditch, including all mainstem reservoirs. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | | |
| 1b. Mainstem of Bear Creek from Harriman Ditch to the inlet of Bear Creek Reservoir. | UP | Aq Life Cold 2 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | Water + Fish Organics | |
| 1c. Bear Creek Reservoir, and Soda Lakes. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | *See narrative phosphorus standard below. | |
| 2. Mainstem of Bear Creek from the outlet of Bear Creek Reservoir to the confluence with the South Platte River. | UP | Aq Life Warm 1 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | | |
| 3. All tributaries to Bear Creek, including all lakes, reservoirs and wetlands, from the source to a point immediately below the confluence with Cub Creek. Except for specific listings in Segment 7. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | | |
| 4a. All tributaries to Bear Creek, including all lakes, reservoirs and wetlands, from a point immediately below the confluence with Cub Creek to the confluence with the South Platte River, except for specific listing in Segments 4b, 4c, 5 and 6. | UP | Aq Life Warm 2 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Water + Fish Organics Temporary modification: NH ₃ (ac/ch)=TVS(old) (Type i). Expiration date of 12/31/2011. | |
| 4b. Swede Gulch, including all ponds, lakes, reservoirs and wetlands, from its headwaters to its confluence with Kerr Gulch. | | Aq Life Cold 2 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | Water + Fish Organics | |

*Narrative Phosphorus Standard for Segment 1c of Bear Creek. Concentrations of total phosphorus in Bear Creek Reservoir shall be limited to the extent necessary to prevent stimulation of algal growth to protect beneficial uses. Sufficient dissolved oxygen shall be present in the upper half of the reservoir hypolimnion layer to provide for the survival and growth of cold water aquatic life species. Attainment of this standard shall, at a minimum, require shifting the reservoir trophic state from a eutrophic and hypertrophic condition to a eutrophic and mesotrophic condition.

**REGULATION NO. 38 SOUTH PLATTE RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS**

| REGION: 3 BASIN: BEAR CREEK Stream Segment Description | DESIG | CLASSIFICATIONS | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|--|-------|--|--|---|--|---|---|---|--|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | | | METALS ug/l | | |
| 4c. Swede Gulch, including all ponds, lakes, reservoirs and wetlands, from its confluence with Kerr Gulch to its confluence with Bear Creek. | | Aq Life Cold 2 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | Water + Fish Organics |
| 5. Sawmill, Troublesome, and Cold Springs Gulches, and mainstem of Turkey Creek, including all tributaries, lakes, reservoirs and wetlands, from the source to the confluence with Bear Creek, except for specific listing in Segment 6. | UP | Aq Life Cold 2 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | Water + Fish Organics |
| 6. Mainstem of North Turkey Creek, from the source to the confluence with Turkey Creek. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 7. All tributaries to Bear Creek, including lakes, reservoirs and wetlands, within the Mt. Evans Wilderness Area. | OW | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |

REGULATION NO. 38 SOUTH PLATTE RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION: 3 BASIN: CLEAR CREEK Stream Segment Description | DESIG | CLASSIFICATIONS | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS | |
|---|-------|--|---|---|--|--|---|---|---|--|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | | METALS ug/l | | | | |
| 1. Mainstem of Clear Creek, including all tributaries, lakes, reservoirs and wetlands, from the source to the I-70 bridge above Silver Plume. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | | |
| 2. Mainstem of Clear Creek, including all tributaries, lakes, reservoirs and wetlands, from the I-70 bridge above Silver Plume to the Argo Tunnel discharge, except for specific listings in Segments 3 through 10. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 SO ₄ =WS NO ₃ =10 Cl=250 | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS | Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac)=TVS Zn(ch)=200 | Temporary modifications: Cu(ch)=8.1 µg/l (dis); Mn(ch)=106 µg/l (dis); Zn(ch)=257 µg/l (dis), type iii Expiration date of 7/01/09. | |
| 3a. Mainstem of South Clear Creek, including all tributaries, lakes, reservoirs and wetlands, from the source to the confluence with Clear Creek, except for the specific listing in 3b and 19. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) | Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | Temporary modification: Zn(ch)=100 µg/l (dis), type iii Expiration date of 7/01/09. | |
| 3b. Mainstem of Leavenworth Creek from source to confluence with South Clear Creek. | | Aq Life Cold 2 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | Temporary modifications: Pb(ch)=1.7 µg/l (dis); Zn(ch)=220 µg/l (dis). Expiration date of 2/28/10. | |
| 4. Mainstem of West Clear Creek from the source to the confluence with Woods Creek. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | | |
| 5. Mainstem of West Clear Creek from the confluence with Woods Creek to the confluence with Clear Creek. | UP | Aq Life Cold 1 Recreation 1a Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 | As(ch)=100(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) | | |
| 6. All tributaries to West Clear Creek, including all lakes, reservoirs and wetlands, from the source to the confluence with Clear Creek, except for specific listings in Segments 7 and 8. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | Temporary modification: Zn(ch)=38 µg/l (dis), type iii Expiration date of 7/01/09. | |
| 7. Mainstem of Woods Creek from the outlet of Upper Urad Reservoir to the confluence with West Clear Creek. | UP | Aq Life Cold 2 Recreation 2 | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.0-9.0 F.Coli=2000/100ml E.Coli=630/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 NO ₃ =0.05 | WQS _{WC} = ((Q _{WC} + Q _{WFC}) X WQS _{WFC} - (Q _{WFC} X C _{WFC}))/Q _{WC} WQS _{WC} = Water Quality Standards for Woods Creek Q _{WC} = Flow for Woods Creek Q _{WFC} = Flow for West Fork Clear Creek WQS _{WFC} = Water Quality Standards for West Fork Clear Creek C _{WFC} = Ambient Concentration in West Fork Clear Creek | | | Standards shall be applied using the Segment 7 equation. | |
| 8. Mainstem of Lion Creek from the source to the confluence with West Clear Creek. | UP | Aq Life Cold 2 Recreation 1a | D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 3.0-9.0 F.Coli=200/100ml E.Coli=126/100ml | | | | | | | |

*REFER TO STATEMENT OF BASIS AND PURPOSE

REGULATION NO. 38 SOUTH PLATTE RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION: 3 BASIN: CLEAR CREEK | DESIG | CLASSIFICATIONS | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|---------------------------------|---|--|---|---|--|---|--|---|--|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | METALS ug/l | | | | |
| Stream Segment Description | | | | | | | | | |
| 9a. | Mainstem to the Fall River, including all tributaries, lakes, reservoirs and wetlands, from the source to the confluence with Clear Creek. | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | Temporary modification: Cu(ch)=11 µg/l (dis), type iii Expiration date of 7/01/09. |
| 9b. | Mainstem of Trail Creek, including all tributaries, lakes, reservoirs, and wetlands from the source to the confluence with Clear Creek. | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 SO ₄ =WS NO ₃ =10 Cl=250 | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS | Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac)=TVS Zn(ch)=200 | Temporary modifications: Cd(ch)=4.6 µg/l, Cu(ch)=148 µg/l, Pb(ch)=7.6 µg/l, Mn(ch)=548, Zn(ch)=1068 µg/l, type iii Expiration date of 7/01/09. |
| 10. | Mainstem of Chicago Creek, including all tributaries, lakes, reservoirs and wetlands, from the source to the confluence with Clear Creek, except for specific listings in Segment 19. | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 11. | Mainstem of Clear Creek from the Argo Tunnel discharge to the Farmers Highline Canal diversion in Golden, Colorado. | UP Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ch)=17 | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ch)=300 | Temporary modification: Zn(ch)=339 µg/l (dis), Mn(ch)=861 µg/l (dis), type iii Expiration date of 7/01/09. |
| 12. | All tributaries to Clear Creek, including all lakes, reservoirs and wetlands, from the Argo Tunnel discharge to the Farmers Highline Canal diversion in Golden, Colorado, except for specific listings in Segments 13a and 13b. | UP Aq Life Cold 2 Recreation 1a Water Supply Agriculture | D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 13a. | Mainstem of North Clear Creek and Four Mile Gulch including all tributaries, lakes, reservoirs and wetlands from their sources to the lowest water supply intake located in each stream and Chase Gulch including all tributaries, lakes, reservoirs and wetlands from its source to the confluence with North Clear Creek. | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS | Cu(ac/ch)=TVS Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 13b. | Mainstem of North Clear Creek including all tributaries, lakes, reservoirs and wetlands from the source to the confluence with Clear Creek, except for the specific listings in segment 13a. | UP Aq Life Cold 2 Recreation 1a Agriculture | D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 | As(ac)=100(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS | Cu(ch)=64 Fe(ch)=5400(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ch)=740 | Temporary modifications: Cd(ch)=6.0 µg/l (dis), Mn(ch)=5,293 µg/l (dis), Zn(ch)=1,864 µg/l (dis), type iii Expiration date of 7/01/09. |
| 14a. | Mainstem of Clear Creek from the Farmers Highline Canal diversion in Golden, Colorado to the Denver Water conduit #16 crossing. | UP Aq Life Warm 2 Recreation 2 Water Supply Agriculture | D.O. = 5.0 mg/l pH = 6.5-9.0 F.Coli=2000/100ml E.Coli=630/00ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVSX3, 66* | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=500 Hg(ch)=0.01(tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVSX 1.57* | |
| 14b. | Mainstem of Clear Creek from the Denver Water conduit #16 crossing to Youngfield Street in Wheat Ridge, Colorado. | UP Aq Life Warm 2 Recreation 1a Water Supply Agriculture | D.O. = 5.0 mg/l pH = 6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVSX3, 66* | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=500 Hg(ch)=0.01(tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVSX 1.57* | |

REGULATION NO. 38 SOUTH PLATTE RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION 3 BASIN: CLEAR CREEK | DESIG | CLASSIFICATIONS | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|---|-------|--|--|---|---|---|--|---|--|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC | | METALS | | | |
| Stream Segment Description | | | | mg/l | | | ug/l | | |
| 15. Mainstem of Clear Creek from Youngfield Street in Wheat Ridge, Colorado, to the confluence with the South Platte River. | UP | Aq Life Warm 1 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH = 6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVSx3.66* | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Trec) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVSx1.57* | Aquatic life warm 1 goal qualifier. Temporary modification: NH ₃ (ac/ch)=TVS(old) (Type i). Expiration date of 12/31/2011. |
| 16a. Mainstem of Lena Gulch including all tributaries, lakes, reservoirs and wetlands from its source to the outlet of Maple Grove Reservoir. | UP | Aq Life Warm 2 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |
| 16b. All tributaries to Clear Creek from the Farmers Highline Canal diversion in Golden, Colorado to the confluence with the South Platte River, except for specific listings in Segments 16a, 17a, 17b, 18a and 18b. | UP | Aq Life Warm 2 Recreation 2 Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |
| 17a. Arvada Reservoir. | UP | Aq Life Cold 2 Recreation 2 Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Water + Fish Organics |
| 17b. Mainstem of Ralston Creek from the source to the inlet of Arvada Reservoir, including Ralston Reservoir, and Upper Long Lake. | UP | Aq Life Cold 2 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Water + Fish Organics |
| 18a. Mainstem of Ralston Creek, including all lakes and reservoirs, from the outlet of Arvada Reservoir to the confluence with Clear Creek. | UP | Aq Life Warm 2 Recreation 1a Water Supply Agriculture | D.O.= 5.0 mg/l pH = 6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |
| 18b. Mainstem of Leyden Creek and Van Bibber Creek from their source to their confluence with Ralston Creek. Mainstem of Little Dry Creek from its source to its confluence with Clear Creek. | UP | Aq Life Warm 2 Recreation 2 Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |
| 19. All tributaries to Clear Creek, including lakes, reservoirs and wetlands, within the Mt. Evans Wilderness Area. | OW | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =250 | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |

* TVS x (times) the FWER (final water effect ratio) = site-specific standard.

REGULATION NO. 38 SOUTH PLATTE RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION 3 BASIN BIG DRY CREEK | DESIG | CLASSIFICATIONS | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|---|-------|--|--|---|---|--|---|---|---|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | | METALS ug/l | | | |
| Stream Segment Description | | | | | | | | | |
| 1. Mainstem of Big Dry Creek, including all tributaries, lakes, reservoirs and wetlands, from the source to the confluence with the South Platte River, except for specific listing in Segment 2, 3, 4a, 4b, 5 and 6. | UP | Aq Life Warm 2 Recreation 1b Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=325/100ml E.Coli=205/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =4.5 | As(ac)=100(Trec) Be(ch)=100 Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS | Cu(ac/ch)=TVS Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS 4/1 thru 10/31: Se(ch)=7.4 Se(ac)=TVS 11/1 thru 3/31: Se(ch)=15 Se(ac)=19.1 | Temporary modifications: NH ₃ (ac/ch)=TVS(old)(Type i). Expiration date of 12/31/2011. |
| 2. Standley Lake. | | Aq Life Warm 1 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS Be(ch)=4 | See attached Table 2 for additional standards for segment 2. See * for narrative standard. |
| 3. Great Western Reservoir. | UP | Aq Life Warm 2 Recreation 2 Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =2.7 | As(ac)=100(Trec) Be(ch)=100 Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS | Cu(ac/ch)=TVS Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | See attached Table 2 for additional standards for segment 3. Temporary modification: NH ₃ (ac/ch)=TVS(old)(Type i). Expiration date of 12/31/2011. |
| 4a. Mainstem and all tributaries to Woman and Walnut Creeks from sources to Standley Lake and Great Western Reservoir except for specific listings in Segments 4b and 5. | UP | Aq Life Warm 2 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 | As(ac)=50(Trec) Be(ch)=4 Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ac)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | See attached Table 2 for additional standards for segment 4a. |
| 4b. North and South Walnut Creek and Walnut Creek, from the outlet of ponds A-4 and B-5 to Indiana Street. | UP | Aq Life Warm 2 Recreation 2 Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml | Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 S=0.002 B=0.75 | NO ₂ =0.5 NO ₃ =10 | As(ac)=50(Trec) Be(ch)=4 Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ac)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | See attached Table 2 for additional standards for segment 4b. |
| 5. Mainstems of North and South Walnut Creek, including all tributaries, lakes, reservoirs and wetlands, from their sources to the outlets of ponds A-4 and B-5, on Walnut Creek, and Pond C-2 on Woman Creek. All three ponds are located on Rocky Flats property. | UP | Aq Life Warm 2 Recreation 2 Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml | Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS Be(ch)=4 | See attached Tables 2 and 3 for additional standards and temporary modifications for seg 5. Goal qualifier for all use classifications, expires 12/31/09. |
| 6. Upper Big Dry Creek and South Upper Big Dry Creek, from their source to Standley Lake. | UP | Aq Life Warm 2 Recreation 2 Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |

*Narrative standard for Segment 2, Big Dry Creek, Standley Lake. The trophic status of Standley Lake shall be maintained as mesotrophic as measured by a combination of common indicator parameters such as total phosphorus, chlorophyll a, secchi depth, and dissolved oxygen. Implementation of this narrative standard shall only be by Best Management Practices and controls implemented on a voluntary basis.

REGULATION NO. 38 SOUTH PLATTE RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION 2 AND 3 BASIN: BOULDER CREEK Stream Segment Description | DESIG | CLASSIFICATIONS | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|--|-------|--|--|---|--|---|---|---|--|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | | | METALS ug/l | | |
| 1. All tributaries to Boulder Creek, including all lakes, reservoirs and wetlands, within the Indian Peaks Wilderness Area. | OW | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 2. Mainstem of Boulder Creek, including all tributaries, lakes, reservoirs and wetlands, from the boundary of the Indian Peaks Wilderness Area to a point immediately above the confluence with South Boulder Creek, except for the specific listings in Segment 3 and 12. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 3. Mainstem of Middle Boulder Creek, including all tributaries, lakes, reservoirs and wetlands, from the source to the outlet of Barker Reservoir, except for specific listing on Segment 1. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 4a. Mainstem of South Boulder Creek, including all tributaries, lakes, reservoirs and wetlands, from the source to the outlet of Gross Reservoir. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 4b. Mainstem of South Boulder Creek, including all tributaries, lakes, reservoirs and wetlands, from the outlet of Gross Reservoir to South Boulder Road, except for specific listings in Segments 4c and 4d. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 4c. Mainstem of Cowdrey Drainage from the source below Cowdrey Reservoir #2 to the Davidson Ditch. | UP | Aq Life Warm 2 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Zn(ac/ch)=TVS | |
| 4d. Mainstem of Cowdrey Drainage from immediately downstream of the Davidson Ditch to the confluence with South Boulder Creek. | UP | Aq Life Warm 2 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Se(ac/ch)=TVS Ag(ac)=TVS Zn(ac/ch)=TVS | |
| 5. Mainstem of South Boulder Creek from South Boulder Road to the confluence with Boulder Creek. | UP | Aq Life Warm 1 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Se(ac/ch)=TVS Ag(ac)=TVS Zn(ac/ch)=TVS | |
| 6. Mainstem of Coal Creek, including all tributaries, lakes, reservoirs and wetlands, from the source to highway 93. | UP | Aq Life Cold 2 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |

REGULATION NO. 38 SOUTH PLATTE RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION: 2 AND 3 BASIN: BOULDER CREEK Stream Segment Description | DESIG | CLASSIFICATIONS | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|--|-------|--|---|---|--|--|---|--|---|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC | | METALS | | | |
| | | | | mg/l | | ug/l | | | |
| 7a. Mainstem of Coal Creek from highway 93 to highway 36 (Boulder Tumpke). | UP | Aq Life Warm 1 Recreation 1a Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |
| 7b. Mainstem of Coal Creek from Highway 36 to the confluence with Boulder Creek. | UP | Aq Life Warm 2 Recreation 1a Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Temporary modifications: NH ₃ (ac/ch)=TVS(old) (Type i). Expiration date of 12/31/2011. |
| 8. All tributaries to South Boulder Creek, including all lakes, reservoirs and wetlands from South Boulder Road to the confluence with Boulder Creek and all tributaries to Coal Creek, including all lakes, reservoirs and wetlands from Highway 93 to the confluence with Boulder Creek. | UP | Aq Life Warm 2 Recreation 1a Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =250 | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS Fe(ch)=WS(dis) | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |
| 9. Mainstem of Boulder Creek from a point immediately above the confluence with South Boulder Creek to the confluence with Coal Creek. | | Aq Life Warm 1 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS Fe(ch)=WS(dis) | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Temporary modifications: type (iii) Cu (ac/ch)=Current Condition, Expiration date of 12/31/2009. NH ₃ (ac/ch)=TVS(old) (Type i). Expiration date of 12/31/2011 |
| 10. Mainstem of Boulder Creek from the confluence with Coal Creek to the confluence with St. Vrain Creek. | UP | Aq Life Warm 1 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Temporary modifications: NH ₃ (ac/ch)=TVS(old) (Type i). Expiration date of 12/31/2011. |
| 11. All tributaries to Boulder Creek, including all lakes, reservoirs, and wetlands from a point immediately above the confluence with South Boulder Creek to the confluence with St. Vrain Creek, except for specific listings in Segments 5 7a and 7b. | UP | Aq Life Warm 2 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS Fe(ch)=WS(dis) | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |
| 12. Deleted | | | | | | | | | |

REGULATION NO. 38 SOUTH PLATTE RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION 2 AND 3 BASIN: ST. VRAIN CREEK Stream Segment Description | DESIG | CLASSIFICATIONS | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|---|-------|--|--|---|--|---|--|---|--|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC | | METALS | | | |
| | | | | mg/l | | ug/l | | | |
| 1. All tributaries to St. Vrain Creek, including all lakes, reservoirs and wetlands, which are within the Indian Peaks Wilderness Area and Rocky Mountain National Park. | OW | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 2. Mainstem of St. Vrain Creek, including all tributaries, lakes, reservoirs and wetlands, from the boundary of the Indian Peaks Wilderness Area and Rocky Mountain National Park to Hygiene Road. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 3. Mainstem of St. Vrain Creek from Hygiene Road to the confluence with the South Platte River and Barbour Ponds. | UP | Aq Life Warm 1 Recreation 1a Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100 Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Mn(ac/ch)=TVS Zn(ac/ch)=TVS | Temporary modification: NH ₃ (ac/ch)=TVS(old) (Type i). Expiration date of 12/31/2011. |
| 4a. Mainstem of Left Hand Creek, including all tributaries, lakes, reservoirs and wetlands, from the source to highway 36 except for specific listings in Segment 4b. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 4b. Mainstem of James Creek, including all tributaries, lakes, reservoirs and wetlands, from the source to the confluence with Left Hand Creek. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 5. Mainstem of Left Hand Creek, including all tributaries, lakes, reservoirs and wetlands from highway 36 to the confluence with St. Vrain Creek. | UP | Aq Life Warm 2 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |
| 6. All tributaries to St. Vrain Creek, including lakes, reservoirs and wetlands from Hygiene Road to the confluence with the South Platte River, except for specific listings in the Boulder Creek subbasin and in segments 4a, 4b and 5. | UP | Aq Life Warm 2 Recreation 1a Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100 Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Temporary modifications: Se(ch)=6.6µg/l (dis). type iii Expiration date of 2/28/10. NH ₃ (ac/ch)=TVS(old) (Type i). Expiration date of 12/31/2011. |
| 7. Boulder Reservoir, Coot Lake, and Left Hand Valley Reservoir. | | Aq Life Warm 1 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |

REGULATION NO. 38 SOUTH PLATTE RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION 2 BASIN: MIDDLE SOUTH PLATTE RIVER Stream Segment Description | DESIG | CLASSIFICATIONS | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|--|-------|--|--|---|---|---|--|---|--|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | | METALS Ug/l | | | |
| 1a. Mainstem of the South Platte River from a point immediately below the confluence with Big Dry Creek to the confluence with St. Vrain Creek. | UP | Aq Life Warm 2 Recreation 1a Water Supply Agriculture | D.O.* pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS*2.2 | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | *See attached table for site-specific Dissolved Oxygen and Ammonia standards. Fish Ingestion Organics Temporary modification: NH ₃ (ac/ch)=TVS(old) (Type i). Expiration date of 12/31/2011. |
| 1b. Mainstem of the South Platte River from a point immediately below the confluence with St. Vrain Creek to the Weld/Morgan County Line. | UP | Aq Life Warm 2 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Fish Ingestion Organics Temporary modifications: NH ₃ (ac/ch)=TVS(old) (Type i). Expiration date of 12/31/2011. |
| 2. Deleted. | | | | | | | | | |
| 3a. All tributaries to the South Platte River, including all lakes, reservoirs and wetlands, from a point immediately below the confluence with Big Dry Creek to the Weld/Morgan County line, except for specific listings in the subbasins of the South Platte River, and in Segments 3b, 4, 5a, 5b, 5c, and 6. | UP | Aq Life Warm 2 Recreation 1a Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Fish Ingestion Organics Temporary modification: NH ₃ (ac/ch)=TVS(old) (Type i). Expiration date of 12/31/2011. |
| 3b. Haynesmount Tributaries including the Upper Haynesmount Tributary from the source to the confluence with Box Elder Creek and the Lower Haynesmount Tributaries from the source to the Denver Hudson Canal. | UP | Aq Life Warm 2 Recreation 1a Agriculture | D.O. (ch) [†] pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | When water is present, D.O. concentrations shall be maintained at levels that protect classified uses. |
| 4. Barr Lake and Milton Reservoir. | UP | Aq Life Warm 2 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Fish Ingestion Organics |
| 5a. Mainstems of Lone Tree Creek, Crow Creek and Box Elder Creek from their sources to their confluences with the South Platte River, except for specific listings in Segment 5b. | UP | Aq Life Warm 2 Recreation 2 Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |

REGULATION NO. 38 SOUTH PLATTE RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION: 2 BASIN: MIDDLE SOUTH PLATTE RIVER Stream Segment Description | DESIG | CLASSIFICATIONS | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|--|-------|---|---|---|--|--|--|---|--|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | | METALS Ug/l | | | |
| 5b. Mainstem of Boxelder Creek from the confluence with Coyote Run to the Denver Hudson Canal. | UP | Aq Life Warm 2 Recreation 2 Agriculture | D.O. (ch)=4.7 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =10 NO ₃ =100 | As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | 15 th percentile of D.O. measurements collected between 6:30 a.m. and 6:30 p.m. |
| 6. Lost Creek from Interstate 76 south, including all its tributaries, stock ponds and wetlands. | UP | Aq Life Warm 2 Recreation 2 Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E. Coli=630/100ml | NO ₃ =100 NO ₂ =10 CN=0.2 | S=0.002 B=0.75 | As=100(Trec) Be(ch)=100(Trec) Cd=10(Trec) CrIII=100(Trec) CrVI=100(Trec) Cu=200(Trec) | Pb=100(Trec) Mn=200(Trec) Ni=200(Trec) Se=20(Trec) | Zn=2000(Trec) | |

Site-Specific Minimum Dissolved Oxygen and Ammonia Standards for Middle South Platte Segment 1a

Dissolved Oxygen:

STANDARDS

Early Life Stage Protection Period (April 1 through July 31)

1-Day^{1,4,5} 3.0 mg/L (acute)

7-Day Average^{1,2} 5.0 mg/L

Older Life Stage Protection Period (August 1 through March 31)

1-Day^{1,4} 2.0 mg/L (acute)

7-Day Mean of Minimums^{1,3} 2.5 mg/L

30-Day Average^{1,2} 4.5 mg/L

Footnotes

1. For the purpose of determining compliance with the standards, dissolved oxygen measurements shall only be taken in the flowing portion of the stream at mid-depth, and at least six inches above the bottom of the channel. All sampling protocols and test procedures shall be in accordance with procedures and protocols approved by the Division.
2. A minimum of four independent daily means must be used to calculate the average for the 7-Day Average standard. A minimum of eight independent daily means must be used to calculate the average for the 30-Day Average standard. The four days and the eight days must be representative of the 7-Day and the 30-Day periods respectively. The daily mean shall be the mean of the daily high and low values. In calculating the mean values, the dissolved oxygen saturation value shall be used in place of any dissolved oxygen measurements which exceed saturation.
3. The 7-Day Mean Minimum is the average of the daily minimums measured at a location on each day during any 7-Day period.
4. During a 24 hour day, dissolved oxygen levels are likely to be lower during the nighttime when there is no photosynthesis. The dissolved oxygen levels should not drop below the acute standard (ELS acute standard of 3.0 mg/L or the OLS standard of 2.0 mg/L). However, if during the ELS period multiple measurements are below 3.0 mg/L during the same nighttime period, the multiple measurements shall be considered a single exceedance of the acute standard. For measurements below 2.0 mg/L during either the ELS or the OLS periods, each hourly measurement below 2.0 mg/L shall be considered an exceedance of the acute standard.
5. In July, the dissolved oxygen level in Segment 1a may be lower than the 3.0 mg/L acute standard for up to 14 exceedances in any one year and up to a total of 21 exceedances in three years before there is a determination that the acute dissolved oxygen standards is not being met. Exceedances shall be counted as described in Footnote 4.

Ammonia:

Early Life Stage Protection Period (April 1 through July 31)

Ammonia

Warm Water = (mg/l as N)Total

$$acute = \frac{0.411}{1 + 10^{7.204 - pH}} + \frac{58.4}{1 + 10^{pH - 7.204}}$$

$$\text{chronic (Apr 1 - July 31)} = \left(\frac{0.0577}{1 + 10^{7.688 - \text{pH}}} + \frac{2.487}{1 + 10^{\text{pH} - 7.688}} \right) * \text{MIN} \left(2.85, 1.45 * 10^{0.028(25 - T)} \right)$$

$$\text{chronic (Aug 1 - Mar 31)} = \left(\frac{0.0577}{1 + 10^{7.688 - \text{pH}}} + \frac{2.487}{1 + 10^{\text{pH} - 7.688}} \right) * 1.45 * 10^{0.028(25 - \text{MAX}(T, 7))}$$

NH₃ = old TVS

Warm Water Acute = 0.62/FT/FPH/2^(4 old) in mg/ (N)

REGULATION NO. 38 SOUTH PLATTE RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION: 2 BASIN: BIG THOMPSON RIVER Stream Segment Description | DESIG | CLASSIFICATIONS | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|--|-------|---|---|---|--|---|---|---|--|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC | | METALS | | | |
| | | | | mg/l | | ug/l | | | |
| 1. All tributaries to the Big Thompson River system, including all lakes, reservoirs and wetlands, which are within Rocky Mountain National Park, except for specific listings in Segment 2. | OW | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 2. Mainstem of the Big Thompson River, including all tributaries, lakes, reservoirs, and wetlands from the boundary of Rocky Mountain National Park to the Home Supply Canal diversion, except for the specific listing in Segment 7; mainstem of Black Canyon Creek and Glacier Creek below Estes Park water treatment plant. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | Temporary modifications: D.O., E. coli, NH ₃ , NO ₃ , B, Cd, Cu, Pb, Hg, Ni, Se, Ag, Zn = existing quality. Wapiti Meadow wetlands at the toe of Lake Estes Dam type iii Expiration date of 12/31/2009 |
| 3. Mainstem of the Big Thompson River from the Home Supply Canal diversion to the Big Barnes Ditch diversion. | UP | Aq Life Cold 2 Recreation 1a Water Supply Agriculture | D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | Water + Fish Organics |
| 4a. Mainstem of the Big Thompson from the Big Barnes Ditch diversion to the Greeley-Loveland Canal diversion. | UP | Aq Life Cold 2 Water Supply Agriculture 5/1 - 10/15 Recreation 1a 10/16 - 4/30 Recreation 2 | D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 5/1 - 10/15 F.Coli=200/100ml E.Coli=126/100ml 10/16 - 4/30 F.Coli=2000/100ml E.Coli=630/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | Water + Fish Organics |
| 4b. Mainstem of the Big Thompson from the Greeley-Loveland Canal diversion to County Road 11H. | UP | Aq Life Warm 2 Agriculture 5/1 - 10/15 Recreation 1a 10/16 - 4/30 Recreation 2 | D.O. = 5.0 mg/l pH = 6.5-9.0 5/1 - 10/15 F.Coli=200/100ml E.Coli=126/100ml 10/16 - 4/30 F.Coli=2000/100ml E.Coli=630/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Fish Ingestion Organics Temporary modification: Se(ch)=5.5ug/l (dis). type iii Expiration date of 2/28/10. |
| 4c. Mainstem of the Big Thompson from County Road 11H to I-25. | UP | Aq Life Warm 2 Agriculture 5/1 - 10/15 Recreation 1a 10/16 - 4/30 Recreation 2 | D.O. = 5.0 mg/l pH = 6.5-9.0 5/1 - 10/15 F.Coli=200/100ml E.Coli=126/100ml 10/16 - 4/30 F.Coli=2000/100ml E.Coli=630/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Fish Ingestion Organics |
| 5. Mainstem of The Big Thompson River from I-25 to the confluence with the South Platte River. | UP | Aq Life Warm 2 Agriculture 5/1 - 10/15 Recreation 1b 10/16 - 4/30 Recreation 2 | D.O. = 5.0 mg/l pH = 6.5-9.0 5/1 - 10/15 F.Coli=325/100ml E.Coli=205/100ml 10/16 - 4/30 F.Coli=2000/100ml E.Coli=630/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Temporary modification: NH ₃ (ac/ch)=TVS(old) (Type i). Expiration date of 12/31/2011. |

REGULATION NO. 38 SOUTH PLATTE RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION: 2 BASIN: BIG THOMPSON RIVER Stream Segment Description | DESIG | CLASSIFICATIONS | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|--|-------|--|--|---|--|--|---|---|--|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC | | METALS | | | |
| | | | | mg/l | | ug/l | | | |
| 6. All tributaries to the Big Thompson River, including all lakes, reservoirs and wetlands, from the Home Supply Canal diversion to the confluence with the South Platte River, except for specific listings in Segments 12. | UP | Aq Life Warm 2 Recreation 1a Agriculture | D.O. = 5.0 mg/l pH = 6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Fish Ingestion Organics Temporary modification: NH ₃ (ac/ch)=TVS(old) (Type i). Expiration date of 12/31/2011. |
| 7. Mainstem of the North Fork of the Big Thompson River from the boundary of Rocky Mountain National Park to the confluence with the Big Thompson River; mainstem of Buckhorn Creek from the source to the confluence with the Big Thompson River. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.0 5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 8. Mainstem of the Little Thompson River, including all tributaries, lakes, reservoirs and wetlands, from the source to the Culver Ditch diversion. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.0 5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 9. Mainstem of the Little Thompson River from the Culver Ditch diversion to the confluence with the Big Thompson River. | UP | Aq Life Warm 2 Recreation 1a Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Temporary modifications: NH ₃ (ac/ch)=TVS(old) (Type i). Expiration date of 12/31/2011. |
| 10. All tributaries to the Little Thompson River, including all lakes, reservoirs and wetlands, from the Culver ditch diversion to the Big Thompson River, except for specific listings in Segments 11 and 13. | UP | Aq Life Warm 2 Recreation 1a Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100mg E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Temporary modifications: NH ₃ (ac/ch)=TVS(old) (Type i). Expiration date of 12/31/2011. |
| 11. Carter Lake. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 12. Lake Loveland, Horseshoe Lake, Boyd Lake. | | Aq Life Warm 1 Recreation 1a Water Supply Agriculture | D.O. = 5.0 mg/l pH = 6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |
| 13. Berthoud Reservoir, Johnstown Reservoir. | UP | Aq Life Warm 2 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |
| 14. Welch Reservoir, Lonetree Reservoir, Boedecker Lake, Lon Hagler Reservoir. | | Aq Life Warm 1 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS Fe(ch)=WS(dis) | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |

REGULATION NO. 38 SOUTH PLATTE RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION 2 | | DESIG | CLASSIFICATIONS | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|------------------------------|---|-------|---|--|---|--|---|---|---|--|
| BASIN. CACHE LA POUVRE RIVER | | | | PHYSICAL and BIOLOGICAL | INORGANIC | | METALS | | | |
| Stream Segment Description | | | | mg/l | | ug/l | | | | |
| 1. | Mainstem of the Cache La Poudre River, and all tributaries, including lakes, reservoirs and wetlands, within Rocky Mountain National Park and the Rawah, Neota, Comanche Peak, and Cache La Poudre Wilderness Areas. | OW | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 2. | Mainstem of the Cache La Poudre River and all tributaries, including lakes, reservoirs and wetlands from the boundaries of Rocky Mountain National Park, and the Rawah, Neota, Comanche Peak, and Cache La Poudre Wilderness Areas to the Monroe Gravity Canal/North Poudre Supply canal diversion. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 3. | Deleted. | | | | | | | | | |
| 4. | Deleted. | | | | | | | | | |
| 5. | Deleted. | | | | | | | | | |
| 6. | Mainstem of the North Fork of the Cache La Poudre River, including all tributaries, lakes, reservoirs and wetlands, from the source to the inlet of Halligan Reservoir. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 7. | Mainstem of the North Fork of the Cache La Poudre River from the inlet of Halligan Reservoir to the confluence with the Cache La Poudre River. | UP | Aq Life Cold 2 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | Water + Fish Organics |
| 8. | All tributaries to the North Fork of the Cache La Poudre River, including all lakes, reservoirs and wetlands from the inlet of Halligan Reservoir to the confluence with the Cache La Poudre River, except for specific listings in Segment 9. | UP | Aq Life Cold 2 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | Water + Fish Organics |
| 9. | Mainstem of Rabbit Creek and Lone Pine Creek from the source to the confluence with the North Fork of the Cache La Poudre River. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 10. | Mainstem of the Cache La Poudre River from the Monroe Gravity Canal/North Poudre Supply Canal diversion to Shields Street in Ft. Collins, Colorado. | UP | Aq Life Cold 2 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | Water + Fish Organics |
| 11. | Mainstem of the Cache La Poudre River from Shields Street in Ft. Collins to a point immediately above the confluence with Boxelder Creek. | UP | Aq Life Warm 2 Recreation 1a Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =2.7 | As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Nitrite as a 30 day average. Fish Ingestion Organics Temporary Modifications: type (iii) Cu (ac/ch)=Current Condition. Expiration date of 12/31/2009. NH ₃ (ac/ch)=TVS(old) (Type I). Expiration date of 12/31/2011. |

REGULATION NO. 38 SOUTH PLATTE RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION 2 BASIN: CACHE LA POUDE RIVER Stream Segment Description | DESIG | CLASSIFICATIONS | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|--|-------|--|--|---|--|---|---|---|---|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | METALS ug/l | | | | |
| 12. Mainstem of the Cache La Poudre River from a point immediately above the confluence with Boxelder Creek to the confluence with the South Platte River. | UP | Aq Life Warm 2 Recreation 1a Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =2.7 | As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Nitrite as a 30 day average. Fish Ingestion Organics Temporary modifications: type (iii) Cu (ac/ch)=Current Condition. Expiration date of 12/31/2009. NH ₃ (ac/ch)=TVS(old) (Type i). Expiration date of 12/31/2011. |
| 13a. All tributaries to the Cache La Poudre River, including all lakes reservoirs and wetlands, from a point immediately above the confluence with the North Fork of the Cache La Poudre River to the confluence with the South Platte River, except for specific listings in Segments 13b, 14, 15 and 16. | UP | Aq Life Warm 2 Recreation 1a Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Temporary modification: NH ₃ (ac/ch)=TVS(old) (Type i). Expiration date of 12/31/2011. |
| 13b. Mainstem of Boxelder Creek from its source to the confluence with the Cache la Poudre River. | UP | Aq Life Warm 2 5/15-9/15 Recreation 1b 9/16-5/14 Recreation 2 Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 5/15-9/15 F.Coli=325/100ml E.Coli=205/100ml 9/16-5/14 F.Coli=2000/100ml E.Coli=630/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Temporary modification: NH ₃ (ac/ch)=TVS(old) (Type i). Expiration date of 12/31/2011. |
| 14. Horsetooth Reservoir. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) As(ch)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS | Cu(ac/ch)=TVS Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) | Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 15. Watson Lake. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 16. Reservoir #4 (T 9 N, R 68 W), Water Supply Reservoir #3 (T 8 N, R 68 W), Claymore Lake, College Lake, Dixon Reservoir, Robert Benson Lake, Black Hollow Reservoir, Seeley Lake. | UP | Aq Life Warm 1 Recreation 1a Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |

**REGULATION NO. 38 SOUTH PLATTE RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS**

| REGION: 2 BASIN: LARAMIE RIVER Stream Segment Description | DESIG | CLASSIFICATIONS | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|--|-------|--|--|---|--|---|---|---|---|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | | | METALS ug/l | | |
| 1. All tributaries to the Laramie River, including all lakes, reservoirs and wetlands, which are within the Rawah Wilderness Area. | OW | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 2. Mainstem of the Laramie River, including all tributaries, lakes, reservoirs and wetlands, from the source to the Colorado/Wyoming border, except for specific listing in Segment 1. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |

REGULATION NO. 38 SOUTH PLATTE RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION 1 BASIN: Lower South Platte River | Desig | Classifications | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|--|-------|--|--|---|---|--|---|--|--|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC mg/l | | | METALS ug/l | | |
| Stream Segment Description: | | | | | | | | | |
| 1. Mainstem of the South Platte River from the Weld/Morgan County line to the Colorado/Nebraska border. | UP | Aq Life Warm 2 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Temporary modifications: NH ₃ (ac/ch)=TVS(old) (Type i). Expiration date of 12/31/2011. |
| 2a. All tributaries to the South Platte River, including all lakes, reservoirs and wetlands, from the Weld/Morgan County line to the Colorado/Nebraska border, except for the specific listings in Segments 2b and 3. | UP | Aq Life Warm 2 Recreation 2 Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml | CN=0.2 NO ₂ =10 NO ₃ =100 | B=0.75 | As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec) | CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) | Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec) | |
| 2b. All tributaries to the South Platte River, including all lakes, reservoirs and wetlands, north of the South Platte River and below 4,500 feet in elevation in Morgan County, north of the South Platte River in Washington County, north of the South Platte River and below 4,200 feet in elevation in Logan County, north of the South Platte River and below 3,700 feet in elevation in Sedgwick County, and the mainstems of Beaver Creek, Bijou Creek and Kiowa Creek from their sources to the confluence with the South Platte River. | UP | Aq Life Warm 2 Recreation 1a Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | Temporary modifications: NH ₃ (ac/ch)=TVS(old) (Type i). Expiration date of 12/31/2011. |
| 3. Jackson Reservoir, Prewitt Reservoir, North Sterling Reservoir, Jumbo (Julesburg), Riverside Reservoir, Empire Reservoir, and Vancil Reservoir. | UP | Aq Life Warm 1 Recreation 1a Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |

REGULATION NO. 38 SOUTH PLATTE RIVER BASIN (continued)
STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

| REGION: 1 and 5 BASIN: Republican River Stream Segment Description | Desig | Classifications | NUMERIC STANDARDS | | | | | | TEMPORARY MODIFICATIONS AND QUALIFIERS |
|---|-------|--|--|---|--|--|---|---|--|
| | | | PHYSICAL and BIOLOGICAL | INORGANIC | | | METALS | | |
| | | | | mg/l | | | ug/l | | |
| 1. Mainstem of the South Fork of the Republican River from a point 10 miles above Bonny Reservoir to the Colorado-Kansas border. | UP | Aq Life Warm 1 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |
| 2. Bonny Reservoir, Stalker Lake. | | Aq Life Warm 1 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS Fe(ch)=WS(dis) | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |
| 3. Mainstem of the North Fork of the Republican River from the source to the Colorado/Nebraska border and the mainstem of Chief Creek. | | Aq Life Cold 1 Recreation 1a Water Supply Agriculture | D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.05 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) | Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS | |
| 4. Mainstem of the Arikaree River from the confluence of the North and South Forks to the Colorado/Kansas border. | | Aq Life Warm 1 Recreation 1a Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 | As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |
| 5. Mainstem of the Black Wolf Creek from the source to the confluence with the Arikaree River. | UP | Aq Life Warm 2 Recreation 1a Water Supply Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=200/100ml E.Coli=126/100ml | NH ₃ (ac/ch)=TVS Cl ₂ (ac)=0.019 Cl ₂ (ch)=0.011 CN=0.005 | S=0.002 B=0.75 NO ₂ =0.5 NO ₃ =10 Cl=250 SO ₄ =WS | As(ac)=50(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS Fe(ch)=WS(dis) | Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Ni(ac/ch)=TVS | Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS | |
| 6. All tributaries to the Republican River system in Colorado, including all lakes, reservoirs and wetlands, except for specific listings in Segments 1 through 5. | UP | Aq Life Warm 2 Recreation 2 Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml | CN=0.2 NO ₂ =10 NO ₃ =100 | B=0.75 | As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec) | CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) | Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec) | |
| 7. Mainstem of the North Fork of the Smoky Hill River and mainstem of the Smoky Hill River, including all tributaries, lakes, reservoirs and wetlands, from the source to the Colorado/Kansas border. | UP | Aq Life Warm 2 Recreation 2 Agriculture | D.O.=5.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml | CN=0.2 NO ₂ =10 NO ₃ =100 | B=0.75 | As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec) | CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) | Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec) | |

Table 2
 SITE SPECIFIC RADIONUCLIDE STANDARDS*
 (in Picocuries/Liter)

The radionuclides listed below shall be maintained at the lowest practical level and in no case shall they be increased by any cause attributable to municipal, industrial, or agricultural practices to exceed the site specific numeric standards.

| A. Ambient based site-specific standards: | | | | |
|---|-------------------------------|--|---|--|
| | Segment 2 Standley Lake | Segment 3 Great Western Reservoir | Segment 4a Segment 5 Woman Creek | Segment 4a Segment 4b Segment 5 Walnut Creek |
| Gross Alpha | 6 | 5 | 7 | 11 |
| Gross Beta | 9 | 12 | 8 | 19 |
| Plutonium | .03 | .03 | 0.15** *** | 0.15** *** |
| Americium | .03 | .03 | 0.15** *** | 0.15** *** |
| Tritium | 500 | 500 | 500 | 500 |
| Uranium | 3 | 4 | 11 | 10 |
| | | | | |
| B. Other site-specific standard applicable to segments 2,3,4a, 4b, and 5. | | | | |
| Curium | 60 | 60 | 60 | 60 |
| Neptunium | 30 | 30 | 30 | 30 |

*Statewide standards also apply for radionuclides not listed above.

**0.15pCi/l Statewide Basic Standards.

***For plutonium and americium measurements in Segment 5 in Woman Creek and Segment 5 in Walnut Creek, attainment will be assessed based on the results of a 12-month flow-weighted rolling average concentration (computed monthly).

Table 3
Temporary Modifications (type i)
Big Dry Creek, Segment 5

Effective until December 31, 2009 for the Walnut Creek portions of segment 5:

| Parameter | mg/l |
|-----------|------|
| Nitrate | 100 |
| Nitrite | 4.5 |

Effective until December 31, 2009 for all of segment 5:

| Parameter | mg/l |
|----------------------|-------|
| Benzene | 0.005 |
| Carbon tetrachloride | 0.005 |
| 1,2-Dichloroethane | 0.005 |
| 1,1-Dichloroethene | 0.007 |
| Tetrachloroethylene | 0.005 |
| Trichloroethylene | 0.005 |

All other organic and radiologic parameters are covered by the Basic Standards.