

**COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
WATER QUALITY CONTROL COMMISSION**

5 CCR 1002-33

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

**APPENDIX 33-1
Stream Classifications and Water Quality Standards Tables**

Effective 9/30/2022

Abbreviations and Acronyms

| | | |
|-------------------|---|------------------------------------|
| Aq | = | Aquatic |
| °C | = | degrees Celsius |
| CL | = | cold lake temperature tier |
| CLL | = | cold large lake temperature tier |
| CS-I | = | cold stream temperature tier one |
| CS-II | = | cold stream temperature tier two |
| D.O. | = | dissolved oxygen |
| DM | = | daily maximum temperature |
| DUWS | = | direct use water supply |
| E. coli | = | <i>Escherichia coli</i> |
| EQ | = | existing quality |
| mg/L | = | milligrams per liter |
| mg/m ² | = | milligrams per square meter |
| mL | = | milliliter |
| MWAT | = | maximum weekly average temperature |
| OW | = | outstanding waters |
| sc | = | sculpin |
| SSE | = | site-specific equation |
| T | = | total recoverable |
| t | = | total |
| tr | = | trout |
| TVS | = | table value standard |
| µg/L | = | micrograms per liter |
| UP | = | use-protected |
| WS | = | water supply |
| WS-I | = | warm stream temperature tier one |
| WS-II | = | warm stream temperature tier two |
| WS-III | = | warm stream temperature tier three |
| WL | = | warm lake temperature tier |

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Blue River Basin

13. Mainstem of Tenmile Creek from the Climax Parshall Flume (39.447556, -106.157003) to a point immediately above the confluence of West Tenmile Creek and all tributaries and wetlands from the source of Tenmile Creek to a point immediately above the confluence with West Tenmile Creek, except for the specific listing in Segment 15.

| COUCBL13 | Classifications | Physical and Biological | | | Metals (ug/L) | | |
|-------------|--------------------------------|------------------------------------|-----------|-------|-----------------|---------|-------------|
| Designation | Agriculture | DM | MWAT | acute | chronic | | |
| Reviewable | Aq Life Cold 1 Recreation P | CS-I | CS-I | | | | |
| Qualifiers: | | acute | chronic | | | | |
| | | Temperature °C | | | Arsenic | 340 | --- |
| | | D.O. (mg/L) | --- | 6.0 | Arsenic(T) | --- | 7.6 |
| | | D.O. (spawning) | --- | 7.0 | Cadmium | TVS | TVS |
| | | pH | 6.5 - 9.0 | --- | Chromium III | TVS | TVS |
| | | chlorophyll a (mg/m ²) | --- | 150* | Chromium III(T) | --- | 100 |
| | | E. coli (per 100 mL) | --- | 205 | Chromium VI | TVS | TVS |
| | | Inorganic (mg/L) | | | Copper | TVS | TVS |
| | | acute | chronic | | Iron(T) | --- | 1000 |
| | | Ammonia | TVS | TVS | Lead | TVS | TVS |
| | | Boron | --- | 0.75 | Manganese | TVS | TVS |
| | | Chloride | --- | --- | Mercury(T) | --- | 0.01 |
| | | Chlorine | 0.019 | 0.011 | Molybdenum(T) | --- | --- |
| | | Cyanide | 0.005 | --- | Nickel | TVS | TVS |
| | | Nitrate | 100 | --- | Selenium | TVS | TVS |
| | | Nitrite | --- | 0.05 | Silver | TVS | TVS(tr) |
| | | Phosphorus | --- | 0.11* | Uranium | varies* | varies* |
| | | Sulfate | --- | --- | Zinc | TVS | TVS/TVS(sc) |
| | | Sulfide | --- | 0.002 | | | |

*Any water quality based effluent limit shall not cause or contribute to exceedances of water quality standards adopted to protect downstream uses.
 *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 33.5(4).
 *Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).
 *Uranium(acute) = See 33.5(3) for details.
 *Uranium(chronic) = See 33.5(3) for details.

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 listings in Segment 16.

| COUCBL14 | Classifications | Physical and Biological | | | Metals (ug/L) | | |
|-------------|--|------------------------------------|-----------|-------|-----------------|---------|-------------|
| Designation | Agriculture | DM | MWAT | acute | chronic | | |
| Reviewable | Aq Life Cold 1 Recreation E Water Supply | CS-I | CS-I | | | | |
| Qualifiers: | | acute | chronic | | | | |
| | | Temperature °C | | | Arsenic | 340 | --- |
| | | D.O. (mg/L) | --- | 6.0 | Arsenic(T) | --- | 0.02 |
| | | D.O. (spawning) | --- | 7.0 | Cadmium | TVS | TVS |
| | | pH | 6.5 - 9.0 | --- | Cadmium(T) | 5.0 | --- |
| | | chlorophyll a (mg/m ²) | --- | 150* | Chromium III | --- | TVS |
| | | E. coli (per 100 mL) | --- | 126 | Chromium III(T) | 50 | --- |
| | | Inorganic (mg/L) | | | Chromium VI | TVS | TVS |
| | | acute | chronic | | Copper | TVS | TVS |
| | | Ammonia | TVS | TVS | Iron | --- | WS |
| | | Boron | --- | 0.75 | Iron(T) | --- | 1000 |
| | | Chloride | --- | 250 | Lead | TVS | TVS |
| | | Chlorine | 0.019 | 0.011 | Lead(T) | 50 | --- |
| | | Cyanide | 0.005 | --- | Manganese | TVS | TVS/WS |
| | | Nitrate | 10 | --- | Mercury(T) | --- | 0.01 |
| | | Nitrite | --- | 0.05 | Molybdenum(T) | --- | 210 |
| | | Phosphorus | --- | 0.11* | Nickel | TVS | TVS |
| | | Sulfate | --- | WS | Nickel(T) | --- | 100 |
| | | Sulfide | --- | 0.002 | Selenium | TVS | TVS |
| | | | | | Silver | TVS | TVS(tr) |
| | | | | | Uranium | varies* | varies* |
| | | | | | Zinc | TVS | TVS/TVS(sc) |

Temporary Modification(s):
 Arsenic(chronic) = hybrid
 Expiration Date of 12/31/2024
 Molybdenum(chronic) = current conditions*
 Expiration Date of 12/31/2023
 *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 33.5(4).
 *Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).
 *Uranium(acute) = See 33.5(3) for details.
 *Uranium(chronic) = See 33.5(3) for details.
 *TempMod: Molybdenum = Adopted 6/9/2014

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 33.6 for further details on applied standards.

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

| 2b. Mainstem of the Yampa River from a point immediately above the confluence with Oak Creek to a point immediately below the confluence with Elkhead Creek. | | | | | | | |
|---|---|------------------------------------|-----------|---------|-----------------|-----|--------|
| COUCYA02B | Classifications | Physical and Biological | | | Metals (ug/L) | | |
| Designation | Agriculture | DM | MWAT | acute | chronic | | |
| Reviewable | Aq Life Cold 1 Recreation E Water Supply | Temperature °C | varies* | varies* | Arsenic | 340 | --- |
| Qualifiers: | Other: Temporary Modification(s): Arsenic(chronic) = hybrid temperature(MWAT) = current conditions* Expiration Date of 12/31/2024 *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. *Temperature = See 33.6(4) for temperature standards. *TempMod: temperature = applies from 7/1-9/30 and 11/1-11/30. Adopted 6/10/2019 | | acute | chronic | Arsenic(T) | --- | 0.02 |
| | | D.O. (mg/L) | --- | 6.0 | Cadmium | TVS | TVS |
| | | D.O. (spawning) | --- | 7.0 | Cadmium(T) | 5.0 | --- |
| | | pH | 6.5 - 9.0 | --- | Chromium III | --- | TVS |
| | | chlorophyll a (mg/m ²) | --- | --- | Chromium III(T) | 50 | --- |
| | | E. coli (per 100 mL) | --- | 126 | Chromium VI | TVS | TVS |
| | | Inorganic (mg/L) | | | Copper | TVS | TVS |
| | | acute | chronic | Iron | --- | WS | |
| | | Ammonia | TVS | TVS | Iron(T) | --- | 1000 |
| | | Boron | --- | 0.75 | Lead | TVS | TVS |
| | | Chloride | --- | 250 | Lead(T) | 50 | --- |
| | | Chlorine | 0.019 | 0.011 | Manganese | TVS | TVS/WS |
| | | Cyanide | 0.005 | --- | Mercury(T) | --- | 0.01 |
| | | Nitrate | 10 | --- | Molybdenum(T) | --- | 150 |
| | | Nitrite | --- | 0.05 | Nickel | TVS | TVS |
| Phosphorus | --- | --- | Nickel(T) | --- | 100 | | |
| Sulfate | --- | WS | Selenium | TVS | TVS | | |
| Sulfide | --- | 0.002 | Silver | TVS | TVS(tr) | | |
| | | | Uranium | varies* | varies* | | |
| | | | Zinc | TVS | TVS/TVS(sc) | | |
| 3. All tributaries to the Yampa River, including all wetlands, from the source to above the confluence with the Elk River, except for specific listings in Segments 1 and 4-7. 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. | | | | | | | |
| COUCYA03 | Classifications | Physical and Biological | | | Metals (ug/L) | | |
| Designation | Agriculture | DM | MWAT | acute | chronic | | |
| Reviewable | Aq Life Cold 1 Recreation E Water Supply | Temperature °C | CS-I | CS-I | Arsenic | 340 | --- |
| Qualifiers: | Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 33.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 33.5(4). *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. | | acute | chronic | Arsenic(T) | --- | 0.02 |
| | | D.O. (mg/L) | --- | 6.0 | Cadmium | TVS | TVS |
| | | D.O. (spawning) | --- | 7.0 | Cadmium(T) | 5.0 | --- |
| | | pH | 6.5 - 9.0 | --- | Chromium III | --- | TVS |
| | | chlorophyll a (mg/m ²) | --- | 150* | Chromium III(T) | 50 | --- |
| | | E. coli (per 100 mL) | --- | 126 | Chromium VI | TVS | TVS |
| | | Inorganic (mg/L) | | | Copper | TVS | TVS |
| | | acute | chronic | Iron | --- | WS | |
| | | Ammonia | TVS | TVS | Iron(T) | --- | 1000 |
| | | Boron | --- | 0.75 | Lead | TVS | TVS |
| | | Chloride | --- | 250 | Lead(T) | 50 | --- |
| | | Chlorine | 0.019 | 0.011 | Manganese | TVS | TVS/WS |
| | | Cyanide | 0.005 | --- | Mercury(T) | --- | 0.01 |
| | | Nitrate | 10 | --- | Molybdenum(T) | --- | 150 |
| | | Nitrite | --- | 0.05 | Nickel | TVS | TVS |
| Phosphorus | --- | 0.11* | Nickel(T) | --- | 100 | | |
| Sulfate | --- | WS | Selenium | TVS | TVS | | |
| Sulfide | --- | 0.002 | Silver | TVS | TVS(tr) | | |
| | | | Uranium | varies* | varies* | | |
| | | | Zinc | TVS | TVS/TVS(sc) | | |

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 33.6 for further details on applied standards.

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

| 13d. Mainstem of Dry Creek, including all tributaries and wetlands, from the source to above the confluence with Temple Gulch. | | | | | | | |
|---|--|------------------------------------|--------------|----------------|-----------------|---------|----------------------|
| COUCYA13D | Classifications | Physical and Biological | | | Metals (ug/L) | | |
| Designation | Agriculture | | DM | MWAT | | acute | chronic |
| UP | Aq Life Warm 2 Recreation E | Temperature °C | WS-II | WS-II | Arsenic | 340 | --- |
| | | | acute | chronic | Arsenic(T) | --- | 100 |
| Qualifiers: | | D.O. (mg/L) | --- | 5.0 | Cadmium | TVS | TVS |
| Other: | | pH | 6.5 - 9.0 | --- | Chromium III | TVS | TVS |
| *Iron(T)(chronic) = See section 33.6(4) for standards and assessment locations. *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. | | chlorophyll a (mg/m ²) | --- | 150 | Chromium III(T) | --- | 100 |
| | | E. coli (per 100 mL) | --- | 126 | Chromium VI | TVS | TVS |
| | | Inorganic (mg/L) | | | Copper | TVS | TVS |
| | | | acute | chronic | Iron(T) | --- | varies* |
| | | Ammonia | TVS | TVS | Lead | TVS | TVS |
| | | Boron | --- | 0.75 | Manganese | TVS | TVS |
| | | Chloride | --- | --- | Mercury(T) | --- | 0.01 |
| | | Chlorine | 0.019 | 0.011 | Molybdenum(T) | --- | 150 |
| | | Cyanide | 0.005 | --- | Nickel | TVS | TVS |
| | | Nitrate | 100 | --- | Selenium | TVS | TVS |
| | | Nitrite | --- | 0.05 | Silver | TVS | TVS |
| | | Phosphorus | --- | 0.17 | Uranium | varies* | varies* |
| | | Sulfate | --- | --- | Zinc | TVS | TVS |
| | | Sulfide | --- | 0.002 | | | |
| 13e. Mainstem of Sage Creek, including all tributaries and wetlands, from the source to the confluence with the Yampa River. | | | | | | | |
| COUCYA13E | Classifications | Physical and Biological | | | Metals (ug/L) | | |
| Designation | Agriculture | | DM | MWAT | | acute | chronic |
| UP | Aq Life Warm 2 Water Supply Recreation N | Temperature °C | WS-II | WS-II | Arsenic | 340 | --- |
| | | | acute | chronic | Arsenic(T) | --- | 0.02-10 ^A |
| Qualifiers: | | D.O. (mg/L) | --- | 5.0 | Cadmium | TVS | TVS |
| Other: | | pH | 6.5 - 9.0 | --- | Cadmium(T) | 5.0 | --- |
| Temporary Modification(s): Selenium(chronic) = current conditions* Expiration Date of 12/31/2023 *Iron(T)(chronic) = See section 33.6(4) for standards and assessment locations for Sage Creek. *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. *TempMod: Selenium = Adopted 6/9/2014 | | chlorophyll a (mg/m ²) | --- | --- | Chromium III | --- | TVS |
| | | E. coli (per 100 mL) | --- | 630 | Chromium III(T) | 50 | --- |
| | | Inorganic (mg/L) | | | Chromium VI | TVS | TVS |
| | | | acute | chronic | Copper | TVS | TVS |
| | | Ammonia | TVS | TVS | Iron | --- | WS |
| | | Boron | --- | 0.75 | Iron(T) | --- | 1000 |
| | | Chloride | --- | 250 | Iron(T) | --- | varies* |
| | | Chlorine | 0.019 | 0.011 | Lead | TVS | TVS |
| | | Cyanide | 0.005 | --- | Lead(T) | 50 | --- |
| | | Nitrate | 10 | --- | Manganese | TVS | TVS/WS |
| | | Nitrite | --- | 0.05 | Mercury(T) | --- | 0.01 |
| | | Phosphorus | --- | 0.17 | Molybdenum(T) | --- | 150 |
| | | Sulfate | --- | WS | Nickel | TVS | TVS |
| | | Sulfide | --- | 0.002 | Nickel(T) | --- | 100 |
| | | | | | Selenium | TVS | TVS |
| | | | | | Silver | TVS | TVS |
| | | | | | Uranium | varies* | varies* |
| | | | | | Zinc | TVS | TVS |

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 33.6 for further details on applied standards.

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

| 13f. Mainstem of Trout Creek, including all tributaries and wetlands, from a point immediately below the confluence with Fish Creek to the confluence with the Yampa River. | | | | | | | |
|---|--|------------------------------------|--------------|----------------|-----------------|---------|---------|
| COUCYA13F | Classifications | Physical and Biological | | Metals (ug/L) | | | |
| Designation | Agriculture | DM | MWAT | acute | chronic | | |
| Reviewable | Aq Life Cold 1 Recreation E Water Supply | Temperature °C | varies* | varies* | Arsenic | 340 | --- |
| Qualifiers: | | | acute | chronic | Arsenic(T) | --- | 0.02 |
| Other: | | D.O. (mg/L) | --- | 6.0 | Cadmium | TVS | TVS |
| Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 | | D.O. (spawning) | --- | 7.0 | Cadmium(T) | 5.0 | --- |
| *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. *Temperature = See 33.6(4) for temperature standards. | | pH | 6.5 - 9.0 | --- | Chromium III | --- | TVS |
| | | chlorophyll a (mg/m ²) | --- | 150 | Chromium III(T) | 50 | --- |
| | | E. coli (per 100 mL) | --- | 126 | Chromium VI | TVS | TVS |
| | | Inorganic (mg/L) | | | Copper | TVS | TVS |
| | | | acute | chronic | Iron | --- | WS |
| | | Ammonia | TVS | TVS | Iron(T) | --- | 1000 |
| | | Boron | --- | 0.75 | Lead | TVS | TVS |
| | | Chloride | --- | 250 | Lead(T) | 50 | --- |
| | | Chlorine | 0.019 | 0.011 | Manganese | TVS | TVS/WS |
| | | Cyanide | 0.005 | --- | Mercury(T) | --- | 0.01 |
| | | Nitrate | 10 | --- | Molybdenum(T) | --- | 150 |
| | | Nitrite | --- | 0.05 | Nickel | TVS | TVS |
| | | Phosphorus | --- | 0.11 | Nickel(T) | --- | 100 |
| | | Sulfate | --- | WS | Selenium | TVS | TVS |
| | | Sulfide | --- | 0.002 | Silver | TVS | TVS(tr) |
| | | | | | Uranium | varies* | varies* |
| | | | | | Zinc | TVS | TVS |

| 13g. All tributaries to Fish Creek from the confluence with Cow Camp Creek (40.398773, -107.016467) to the confluence with Trout Creek. | | | | | | | |
|---|--------------------------------|------------------------------------|--------------|----------------|-----------------|---------|---------|
| COUCYA13G | Classifications | Physical and Biological | | Metals (ug/L) | | | |
| Designation | Agriculture | DM | MWAT | acute | chronic | | |
| Reviewable | Aq Life Warm 1 Recreation E | Temperature °C | WS-II | WS-II | Arsenic | 340 | --- |
| Qualifiers: | | | acute | chronic | Arsenic(T) | --- | 7.6 |
| Other: | | D.O. (mg/L) | --- | 5.0 | Cadmium | TVS | TVS |
| Temporary Modification(s): Selenium(chronic) = current conditions* Expiration Date of 12/31/2023 | | pH | 6.5 - 9.0 | --- | Chromium III | TVS | TVS |
| *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. *TempMod: Selenium = Adopted 6/9/2014 | | chlorophyll a (mg/m ²) | --- | 150 | Chromium III(T) | --- | 100 |
| | | E. coli (per 100 mL) | --- | 126 | Chromium VI | TVS | TVS |
| | | Inorganic (mg/L) | | | Copper | TVS | TVS |
| | | | acute | chronic | Iron(T) | --- | 1000 |
| | | Ammonia | TVS | TVS | Lead | TVS | TVS |
| | | Boron | --- | 0.75 | Manganese | TVS | TVS |
| | | Chloride | --- | --- | Mercury(T) | --- | 0.01 |
| | | Chlorine | 0.019 | 0.011 | Molybdenum(T) | --- | 150 |
| | | Cyanide | 0.005 | --- | Nickel | TVS | TVS |
| | | Nitrate | 100 | --- | Selenium | TVS | TVS |
| | | Nitrite | --- | 0.05 | Silver | TVS | TVS |
| | | Phosphorus | --- | 0.17 | Uranium | varies* | varies* |
| | | Sulfate | --- | --- | Zinc | TVS | TVS |
| | | Sulfide | --- | 0.002 | | | |

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 33.6 for further details on applied standards.

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

| 13h. Mainstem of Dry Creek (near Hayden), including all tributaries and wetlands, from above the confluence with Temple Gulch to the confluence with the Yampa River. | | | | | | | |
|---|--------------------------------|------------------------------------|--------------|----------------|-----------------|---------|---------|
| COUCYA13H | Classifications | Physical and Biological | | | Metals (ug/L) | | |
| Designation | Agriculture | | DM | MWAT | | acute | chronic |
| UP | Aq Life Warm 2 Recreation E | Temperature °C | WS-II | WS-II | Arsenic | 340 | --- |
| | | | acute | chronic | Arsenic(T) | --- | 7.6 |
| Qualifiers: | | D.O. (mg/L) | --- | 5.0 | Cadmium | TVS | TVS |
| Other: | | pH | 6.5 - 9.0 | --- | Chromium III | TVS | TVS |
| *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. | | chlorophyll a (mg/m ²) | --- | 150 | Chromium III(T) | --- | 100 |
| | | E. coli (per 100 mL) | --- | 126 | Chromium VI | TVS | TVS |
| | | Inorganic (mg/L) | | | Copper | TVS | TVS |
| | | | acute | chronic | Iron(T) | --- | 1000 |
| | | Ammonia | TVS | TVS | Lead | TVS | TVS |
| | | Boron | --- | 0.75 | Manganese | TVS | TVS |
| | | Chloride | --- | --- | Mercury(T) | --- | 0.01 |
| | | Chlorine | 0.019 | 0.011 | Molybdenum(T) | --- | 150 |
| | | Cyanide | 0.005 | --- | Nickel | TVS | TVS |
| | | Nitrate | 100 | --- | Selenium | TVS | TVS |
| | | Nitrite | --- | 0.05 | Silver | TVS | TVS |
| | | Phosphorus | --- | 0.17 | Uranium | varies* | varies* |
| | | Sulfate | --- | --- | Zinc | TVS | TVS |
| | | Sulfide | --- | 0.002 | | | |
| 13i. Mainstem of Grassy Creek, including all tributaries and wetlands, from the source to immediately above the confluence with Scotchmans Gulch. | | | | | | | |
| COUCYA13I | Classifications | Physical and Biological | | | Metals (ug/L) | | |
| Designation | Agriculture | | DM | MWAT | | acute | chronic |
| UP | Aq Life Warm 2 Recreation N | Temperature °C | WS-II | WS-II | Arsenic | 340 | --- |
| | | | acute | chronic | Arsenic(T) | --- | 100 |
| Qualifiers: | | D.O. (mg/L) | --- | 5.0 | Cadmium | TVS | TVS |
| Other: | | pH | 6.5 - 9.0 | --- | Chromium III | TVS | TVS |
| Temporary Modification(s): Selenium(chronic) = current conditions* Expiration Date of 12/31/2023 *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. *TempMod: Selenium = Adopted 6/9/2014 | | chlorophyll a (mg/m ²) | --- | --- | Chromium III(T) | --- | 100 |
| | | E. coli (per 100 mL) | --- | 630 | Chromium VI | TVS | TVS |
| | | Inorganic (mg/L) | | | Copper | TVS | TVS |
| | | | acute | chronic | Iron(T) | --- | 1000 |
| | | Ammonia | TVS | TVS | Lead | TVS | TVS |
| | | Boron | --- | 0.75 | Manganese | TVS | TVS |
| | | Chloride | --- | --- | Mercury(T) | --- | 0.01 |
| | | Chlorine | 0.019 | 0.011 | Molybdenum(T) | --- | 150 |
| | | Cyanide | 0.005 | --- | Nickel | TVS | TVS |
| | | Nitrate | 100 | --- | Selenium | TVS | TVS |
| | | Nitrite | --- | 0.05 | Silver | TVS | TVS |
| | | Phosphorus | --- | 0.17 | Uranium | varies* | varies* |
| | | Sulfate | --- | --- | Zinc | TVS | TVS |
| | | Sulfide | --- | 0.002 | | | |

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 33.6 for further details on applied standards.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Yampa River Basin

| 13j. Mainstem of Grassy Creek (near Hayden), including all tributaries and wetlands, from above the confluence with Scotchmans Gulch to the confluence with the Yampa River. | | | | | | | |
|---|--|-------------------------|---------|---------|-----------------|---------|---------|
| COUCYA13J | Classifications | Physical and Biological | | | Metals (ug/L) | | |
| Designation | Agriculture | | DM | MWAT | | acute | chronic |
| UP | Aq Life Warm 2 Recreation N | Temperature °C | WS-II | WS-II | Arsenic | 340 | --- |
| Qualifiers: | | | acute | chronic | Arsenic(T) | --- | 100 |
| Other: | D.O. (mg/L) | --- | 5.0 | | Cadmium | TVS | TVS |
| Temporary Modification(s): Selenium(chronic) = current conditions* Expiration Date of 12/31/2023 | pH | 6.5 - 9.0 | --- | | Chromium III | TVS | TVS |
| *Uranium(acute) = See 33.5(3) for details. | chlorophyll a (mg/m ²) | --- | --- | | Chromium III(T) | --- | 100 |
| *Uranium(chronic) = See 33.5(3) for details. | E. coli (per 100 mL) | --- | 630 | | Chromium VI | TVS | TVS |
| *TempMod: Selenium = Adopted 12/11/2017 | Inorganic (mg/L) | | | | Copper | TVS | TVS |
| | | acute | chronic | | Iron(T) | --- | 1000 |
| | Ammonia | TVS | TVS | | Lead | TVS | TVS |
| | Boron | --- | 0.75 | | Manganese | TVS | TVS |
| | Chloride | --- | --- | | Mercury(T) | --- | 0.01 |
| | Chlorine | 0.019 | 0.011 | | Molybdenum(T) | --- | 150 |
| | Cyanide | 0.005 | --- | | Nickel | TVS | TVS |
| | Nitrate | 100 | --- | | Selenium | TVS | TVS |
| | Nitrite | --- | 0.05 | | Silver | TVS | TVS |
| | Phosphorus | --- | 0.17 | | Uranium | varies* | varies* |
| | Sulfate | --- | --- | | Zinc | TVS | TVS |
| | Sulfide | --- | 0.002 | | | | |
| 14. Mainstem of Elkhead Creek, including all tributaries and wetlands, from the boundary of the National Forest lands, to a point immediately below the confluence with Calf Creek. Dry Fork Elkhead Creek, including all tributaries and wetlands, from the source to a point immediately below 80A Road (40.612676, -107.228533), which are not on National Forest lands. | | | | | | | |
| COUCYA14 | Classifications | Physical and Biological | | | Metals (ug/L) | | |
| Designation | Agriculture | | DM | MWAT | | acute | chronic |
| Reviewable | Aq Life Cold 1 Recreation E Water Supply | Temperature °C | CS-II | CS-II | Arsenic | 340 | --- |
| Qualifiers: | | | acute | chronic | Arsenic(T) | --- | 0.02 |
| Other: | D.O. (mg/L) | --- | 6.0 | | Cadmium | TVS | TVS |
| *Uranium(acute) = See 33.5(3) for details. | D.O. (spawning) | --- | 7.0 | | Cadmium(T) | 5.0 | --- |
| *Uranium(chronic) = See 33.5(3) for details. | pH | 6.5 - 9.0 | --- | | Chromium III | --- | TVS |
| | chlorophyll a (mg/m ²) | --- | 150 | | Chromium III(T) | 50 | --- |
| | E. coli (per 100 mL) | --- | 126 | | Chromium VI | TVS | TVS |
| | Inorganic (mg/L) | | | | Copper | TVS | TVS |
| | | acute | chronic | | Iron | --- | WS |
| | Ammonia | TVS | TVS | | Iron(T) | --- | 1000 |
| | Boron | --- | 0.75 | | Lead | TVS | TVS |
| | Chloride | --- | 250 | | Lead(T) | 50 | --- |
| | Chlorine | 0.019 | 0.011 | | Manganese | TVS | TVS/WS |
| | Cyanide | 0.005 | --- | | Mercury(T) | --- | 0.01 |
| | Nitrate | 10 | --- | | Molybdenum(T) | --- | 150 |
| | Nitrite | --- | 0.05 | | Nickel | TVS | TVS |
| | Phosphorus | --- | 0.11 | | Nickel(T) | --- | 100 |
| | Sulfate | --- | WS | | Selenium | TVS | TVS |
| | Sulfide | --- | 0.002 | | Silver | TVS | TVS(tr) |
| | | | | | Uranium | varies* | varies* |
| | | | | | Zinc | TVS | TVS |

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 33.6 for further details on applied standards.

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS – FOOTNOTES

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

- (B) Assessment of adequate refuge shall rely on the Cold Large Lake table value temperature criterion and applicable dissolved oxygen standard rather than the site-specific temperature standard.