



COLORADO

Water Quality
Control Commission

Department of Public Health & Environment

NOTICE OF PUBLIC RULEMAKING HEARING BEFORE THE COLORADO WATER QUALITY CONTROL COMMISSION

SUBJECT:

For consideration of adoption of revisions to the Nutrients Management Control Regulation, Regulation #85 (5 CCR 1002-85) and revisions pertaining to lakes nutrient criteria in The Basic Standards and Methodologies for Surface Water, Regulation #31 (5 CCR 1002-31) along with revisions to the Classifications and Numeric Standards for:

- Arkansas River Basin, Regulation #32 (5 CCR 1002-32);
- Upper Colorado River Basin and North Platte River (Planning Region 12), Regulation #33 (5 CCR 1002-33);
- San Juan River and Dolores River Basins, Regulation #34 (5 CCR 1002-34);
- Gunnison and Lower Dolores River Basins, Regulation #35 (5 CCR 1002-35);
- Rio Grande Basin, Regulation #36 (5 CCR 1002-36);
- Lower Colorado River Basin, Regulation #37 (5 CCR 1002-37); and
- South Platte River Basin, Laramie River Basin, Republican River Basin, Smoky Hill River Basin, Regulation #38 (5 CCR 1002-38).

Revisions proposed by the Water Quality Control Division, along with a proposed Statement of Basis, Specific Statutory Authority and Purpose, are attached to this notice as Exhibit 1.

In these attachments, proposed new language is shown with underlining and proposed deletions are shown with ~~strikeouts~~. Any alternative proposals related to the subject of this hearing will also be considered.

SCHEDULE OF IMPORTANT DATES

Proponent's prehearing statement due	8/3/2022 5:00 pm	Additional information below.
Party Status requests due	8/17/2022 5:00 pm	Additional information below.
Proponent's supplemental prehearing statement due	10/5/2022 5:00 pm	
Responsive prehearing statements due	12/21/2022 5:00 pm	Additional information below.
Rebuttal statements due	2/15/2023 5:00 pm	Additional information below.
Last date for submittal of motions	2/22/2023 by noon	Additional information below.





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Complete Outstanding Issues Index Form	3/1/2023	Additional information below.
Prehearing Conference (mandatory for parties)	3/7/2023 2:00 pm	Remote Via Zoom Additional Information below.
Negotiations cutoff	3/16/2023	N/A
Consolidated Proposal	3/30/2023	N/A
Rulemaking Hearing	4/10/2023 9:00 am	Sabin Cleere Conference Room Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, CO 80246 Or Remote Via Zoom

HEARING SUBMITTALS:

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

PARTY STATUS:

Party status requests must be in writing and must provide:

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

In accordance with section 25-8-104(2)(d), C.R.S., any person who believes that the actions proposed in this notice have the potential to cause material injury to his or her water rights is requested to so indicate, along with an explanation of the alleged harm, in their party status request.

PREHEARING AND REBUTTAL STATEMENTS:

Each party must submit a prehearing statement: parties that have proposed revisions attached as exhibits to the notice must submit a proponent's prehearing statement. All other parties



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must submit a responsive prehearing statement. Proponents may also submit responsive prehearing statements when there are multiple proposals attached to the notice.

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

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

Oral testimony at the hearing should primarily summarize written material previously submitted. The hearing will emphasize commission questioning of parties and other interested persons about their written prehearing submittals. Introduction of written material at the hearing by those with party status will not be permitted unless authorized by the commission.

PREHEARING CONFERENCE:

Attendance at the prehearing conference is mandatory for all persons requesting party status. Following the deadline to request party status, a Zoom link to attend the prehearing conference will be provided to all those who request party status.

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

PUBLIC PARTICIPATION ENCOURAGED:

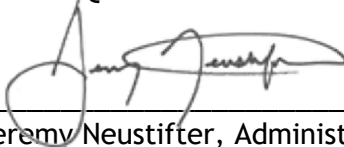
The commission encourages input from non-parties, either orally at the hearing or in writing prior to the hearing. Written submissions should be emailed to cdphe.wqcc@state.co.us by March 29, 2023.

SPECIFIC STATUTORY AUTHORITY:

The provisions of sections 25-8-202(1)(a), (b), and (2); 25-8-203; 25-8-204; and 25-8-402, C.R.S., provide the specific statutory authority for consideration of the regulatory amendments proposed by this notice. Should the commission adopt the regulatory language as proposed in this notice or alternative amendments, it will also adopt, in compliance with section 24-4-103(4) C.R.S., an appropriate Statement of Basis, Specific Statutory Authority, and Purpose.

Dated this 26th day of September 2022 at Denver, Colorado.

WATER QUALITY CONTROL COMMISSION



Jeremy Neustifter, Administrator

DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Water Quality Control Commission

REGULATION NO. 85 - NUTRIENTS MANAGEMENT CONTROL REGULATION

5 CCR 1002-85

[Editor's Notes follow the text of the rules at the end of this CCR Document.]

85.1 AUTHORITY

The Water Quality Control Commission is authorized by section 25-8-205, C.R.S., to promulgate control regulations to describe prohibitions, standards, concentrations, and effluent limitations on the extent of specifically identified pollutants that any person may discharge into any specific class of state waters.

Materials incorporated by reference are available for public inspection during normal business hours, or copies (including certified copies) may be obtained at a reasonable cost, from the Administrator, Water Quality Control Commission, 4300 Cherry Creek Drive South, Denver, Colorado 80246. Federal materials incorporated by reference are available online for free at: <https://www.govinfo.gov/app/collection/cfr>.

-Unless expressly stated otherwise, materials incorporated by reference are those editions in existence as of the most recent date this regulation is ~~promulgated or~~ revised by the Water Quality Control Commission and references do not include later amendments to or editions of the incorporated material. ~~All material incorporated by reference may be examined at any state publications depository library.~~

85.2 APPLICABILITY

This regulation applies to point sources and nonpoint sources of nutrients to surface water as identified in this regulation.

85.3 SEVERABILITY

The provisions of this regulation are severable, and if any provisions or the application of the provisions to any circumstances is held invalid, the application of such provision to other circumstances, and the remainder of this regulation shall not be affected thereby.

85.4 DEFINITIONS

See the Colorado Water Quality Control Act, sections 25-8-101 et seq., C.R.S., and the Water Quality Control Commission codified regulations, - 5 CCR 1002, for additional definitions.

(1) "BEST MANAGEMENT PRACTICE (BMP)" means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of "state waters." BMPs also include treatment requirements, operating procedures and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

(2) "DISADVANTAGED COMMUNITY" means a community that meets the criteria for disadvantaged community as defined in section 85.7.

- (3) "EXISTING TREATMENT FACILITY" means any existing domestic wastewater treatment facility that commenced discharge or received PELs or site approval prior to May 31, 2012 for groundwater discharge, surface water discharge, or a non-discharging facility; or that applied for a Notice of Authorization for the application of reclaimed water prior to May 31, 2012. Existing treatment facilities also include non-domestic wastewater treatment facilities that commenced discharge to state waters prior to May 31, 2013.
- (4) "LOCAL GOVERNMENT" means a city, town, county, district, association, or other public body created by or under State law and having jurisdiction over disposal of sewage, industrial wastes, or other wastes, or a designated and approved management agency under section 208 of the federal Clean Water Act.
- (5) "MS4" means a municipal separate storm sewer system.
- (6) "MUNICIPAL SCREENER" means the average total annualized cost per household of pollution control including the cost of meeting the effluent limitations at 85.5 and other costs of complying with Regulation 85, divided by the median annual household income, on a percentage basis [i.e. (average total annual pollution control cost per household / median household income)*100].
- (7) "NEW TREATMENT FACILITY" means any domestic wastewater treatment facility on a new site that is not an "existing treatment facility" and commences discharge to surface water, or receives PELs, after May 31, 2012, or any non-domestic wastewater treatment facility on a new site that is not an "existing treatment facility" and commences discharge to surface water or receives PELs after May 31, 2013.
- (8) "NONPOINT SOURCE" means any activity or facility other than a point source from which pollutants are or may be discharged. For the purposes of this regulation, nonpoint source includes all runoff that is not subject to the requirements provided under Regulation #61, section 61.3(2)(e), (f), or (g), including those designated by the division under section 61.3(2)(f)(iii), whether sheet flows or collected and conveyed through channels, conduits, pipes or other discrete conveyances.
- (9) "SITE" means as defined in Regulation #61, 5 CCR 1002-61.
- (10) "STORMWATER" means stormwater runoff, snow melt runoff, and surface runoff and drainage.

85.5 SPECIFIC LIMITATIONS FOR DISCHARGERS OF NUTRIENTS

The effluent limitations and stormwater management practices in this section shall be implemented in the Colorado Discharge Permit System (CDPS) and National Pollutant Discharge Elimination System (NPDES) permits authorizing the discharge to surface water beginning no sooner than July 1, 2013. Monitoring requirements are included in Section 85.6. All facilities should refer to section 85.6 regardless of the determination of applicable permit limits.

- (1) Numeric Limitations for Domestic Wastewater Treatment Works (DWWTW)
- (a) Existing Treatment Facilities:
- (i) Exclusions

The numeric limits in subsections (iii)(a) and (b) below will not be included in CDPS and NPDES permits and will only be included in preliminary effluent limitations for Site Location and Design Approvals upon request and with a delayed effective date for the following categories of dischargers:

- (A) Any DWWTW with a design capacity of less than or equal to 1.0 million gallons per day.
- (B) Any DWWTW owned by a disadvantaged community.
- (ii) Delayed Implementation of Effluent Limits

The numeric limits in subsections (iii)(a) and (b) below or division approved alternative or modified effluent limits consistent with 85.5(3)(b)(iv) or 85.5(3)(d) will be included in preliminary effluent limitations with a delayed effective date for Site Location and Design Approvals and will not be included in effluent limitations in CDPS permits prior to December 31, 2027 for the following categories of dischargers:

- (A) Any currently permitted DWWTW subject to Watershed Protection Control Regulations 71-74 (5 CCR 1002-71, 5 CCR 1002-72, 5 CCR 1002-73, and 5 CCR 1002-74).
- (B) Any existing permitted DWWTW with a design capacity of less than or equal to 2.0 million gallons per day.
- (C) Any existing permitted facility discharging into low priority 8-digit hydrologic units code watersheds [Purgatoire - 11020010, Upper Arkansas-John Martin Reservoir - 11020009, Upper San Juan - 14080101, Upper Arkansas-Lake Meredith - 11020005, Upper White - 14050005, San Luis - 13010003, Chico - 11020004, Kiowa - 10190010, Middle South Platte-Sterling - 10190012, San Miguel - 14030003, Alamosa-Trinchera -13010002, McElmo - 14080202, Lower Gunnison - 14020005, Arkansas Headwaters - 11020001, Upper Yampa - 14050001, Upper Gunnison - 14020002, and Uncompahgre - 14020006].
- (iii) All Others

For all Domestic Wastewater Treatment Works not identified in subsections (a)(i) or (ii) above and discharging prior to May 31, 2012 or for which a complete request for preliminary effluent limits has been submitted to the division prior to May 31, 2012, the following numeric limits shall apply:

PARAMETER	PARAMETER LIMITATIONS	PARAMETER LIMITATIONS
.	Annual Median ¹	95th Percentile ²
(a) Total Phosphorus	1.0 mg/L	2.5 mg/L
(b) Total Inorganic Nitrogen as N ³	15 mg/L	20 mg/L

1 Rolling Annual Median: The median of all samples taken in the most recent 12 calendar months.

2 The 95th percentile of all samples taken in the most recent 12 calendar months.

3 Determined as the sum of nitrate as N, nitrite as N, and ammonia as N.

(b) New Treatment Facility:

PARAMETER	PARAMETER LIMITATIONS	PARAMETER LIMITATIONS
.	Annual Median ¹	95th Percentile ²
(a) Total Phosphorus	0.7 mg/L	1.75 mg/L

(b) Total Inorganic Nitrogen as N ³	7 mg/L	14 mg/L
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- 1 Rolling Annual Median: The median of all samples taken in the most recent 12 calendar months.
- 2 The 95th percentile of all samples taken in the most recent 12 calendar months.
- 3 Determined as the sum of nitrate as N, nitrite as N, and ammonia as N.

(1.5) Voluntary Incentive Program for Early Nutrient Reduction for Domestic and Non-Domestic Wastewater Treatment Works

(a) The commission has created a voluntary incentive program for facilities that voluntarily reduce phosphorus and/or nitrogen nutrient concentrations below concentrations allowed by Regulation #85 effluent limits.

(b) To participate in the voluntary incentive program, a permittee is required to submit a nutrient reduction plan and annual nutrient monitoring reports to the division.

(c) The voluntary incentive program is a performance based program. The program provides incentives for early reductions in nutrient concentrations below the concentrations allowed by the Regulation 85 effluent limits. The incentive that a permittee receives after 2027 is a discharge permit compliance schedule to provide additional time to meet nitrogen and/or phosphorus water quality-based effluent limits, limits derived from waste load allocations, or alternative effluent limits pursuant to Section 31.7(4) of Regulation #31. The additional time provided under the compliance schedule would be beyond that which would ~~be~~ otherwise be granted to a permittee not participating in the incentive program and would be based on additional effort made by the participating permittee to achieve early reduction of nutrients concentrations. The duration of the additional time in the discharge permit compliance schedule will be based on voluntary nutrient concentration reductions, as recorded in annual nutrient monitoring reports and submitted to the division. Participating facilities will begin accruing additional time for their discharge permit compliance schedules beginning on January 1, 2018 and ending on December 31, 2027.

(d) The division will include an extended permit compliance schedule in the first renewal permit after the commission adopts numeric nutrient values in Regulation #31 and Regulations #32 through #38 to any permittee who, through participation in the voluntary incentive program, demonstrates success in reducing phosphorus and/or nitrogen nutrient concentrations below the concentrations allowed by Regulation #85.

(e) Nothing in this subsection (1.5) precludes the division from exercising its authority under section 25-8-307, C.R.S. to address public health emergencies or Regulation #61, section 61.8(8)(a)(iv) to address a division determination that the permitted activity endangers human health or the classified uses of state waters and can only be regulated to acceptable levels by permit modifications or termination. The division may exercise such authority with respect to participants in the voluntary incentive program, as well as other sources of nutrients, as may be appropriate.

(2) Numeric Limitations for Non-Domestic Wastewater Treatment Works

(a) The following effluent limits apply to non-domestic existing treatment facilities:

(i) Delayed Implementation of Effluent Limits

The numeric limits in section 85.5(2) will not be included in effluent limitations in CDPS permits prior to December 31, 2027 for any existing permitted facility discharging into low priority 8-digit hydrologic units code watersheds [Purgatoire - 11020010, Upper Arkansas-John Martin Reservoir - 11020009, Upper San Juan - 14080101, Upper Arkansas-Lake Meredith - 11020005, Upper White - 14050005, San Luis - 13010003, Chico - 11020004, Kiowa - 10190010, Middle South Platte-Sterling - 10190012, San Miguel -

14030003, Alamosa-Trinchera - 13010002, McElmo - 14080202, Lower Gunnison - 14020005, Arkansas Headwaters - 11020001, Upper Yampa - 14050001, Upper Gunnison - 14020002, and Uncompahgre - 14020006] except for dischargers that are discharging effluent concentrations of TN or TP that are greater than 53 mg/L and 6 mg/L, respectively.

(ii) All Others

The following effluent limits apply to non-domestic existing treatment facilities not covered by the delay provided in section 85.5(2)(a)(i):

(A) Non-domestic dischargers with a Standard Industrial Classification code in the Major Group 20 (SIC 20).

PARAMETER	PARAMETER LIMITATIONS	PARAMETER LIMITATIONS
.	Annual Median ¹	95 th Percentile ²
(a) Total Phosphorus	10 mg/L	25 mg/L
(b) Total Inorganic Nitrogen as N ³	20 mg/L	27 mg/L

1 Rolling Annual Median: The median of all samples taken in the most recent 12 calendar months.

2 The 95th percentile of all samples taken in the most recent 12 calendar months.

3 Determined as the sum of nitrate as N, nitrite as N, and ammonia as N.

(B) Any other non-domestic dischargers for which the division has determined, based on credible information that the facility is expected, without treatment for nutrients, to discharge total inorganic nitrogen or total phosphorus concentrations to surface waters in excess of the following effluent limits.

PARAMETER	PARAMETER LIMITATIONS	PARAMETER LIMITATIONS
.	Annual Median ¹	95 th Percentile ²
(a) Total Phosphorus	1.0 mg/L	2.5 mg/L
(b) Total Inorganic Nitrogen as N ³	15 mg/L	20 mg/L

1 Rolling Annual Median: The median of all samples taken in the most recent 12 calendar months.

2 The 95th percentile of all samples taken in the most recent 12 calendar months.

3 Determined as the sum of nitrate as N, nitrite as N, and ammonia as N.

(b) The following effluent limits apply to non-domestic new treatment facilities:

(i) Non-domestic dischargers within SIC 20.

PARAMETER	PARAMETER LIMITATIONS	PARAMETER LIMITATIONS
.	Annual Median ¹	95 th Percentile ²
(a) Total Phosphorus	5 mg/L	13 mg/L
(b) Total Inorganic Nitrogen as N ³	10 mg/L	20 mg/L

1 Rolling Annual Median: The median of all samples taken in the most recent 12 calendar months.

- 2 The 95th percentile of all samples taken in the most recent 12 calendar months.
- 3 Determined as the sum of nitrate as N, nitrite as N, and ammonia as N.

(ii) Any other non-domestic dischargers for which the division has determined, based on credible information that the facility is expected, without treatment for nutrients, to discharge total inorganic nitrogen or total phosphorus concentrations to surface waters in excess of the following effluent limitations.

PARAMETER	PARAMETER LIMITATIONS	PARAMETER LIMITATIONS
.	Annual Median ¹	95 th Percentile ²
(a) Total Phosphorus	0.7 mg/L	1.75 mg/L
(b) Total Inorganic Nitrogen as N ³	7 mg/L	14 mg/L

- 1 Rolling Annual Median: The median of all samples taken in the most recent 12 calendar months.
- 2 The 95th percentile of all samples taken in the most recent 12 calendar months.
- 3 Determined as the sum of nitrate as N, nitrite as N, and ammonia as N.

(3) Additional Provisions Applicable to Domestic and Non-Domestic Wastewater Treatment Works

(a) Compliance Schedules

A permit shall not be issued which allows a violation of the provisions of this control regulation unless it contains a schedule of compliance requiring specific steps needed to modify or install treatment facilities, operations or other measures, and deadlines for completion of those steps. Factors that the division shall consider in developing the deadlines to be included in a compliance schedule, based on information that may be provided by the permittee or is otherwise known, shall include:

- (i) Availability of resources needed to modify or install treatment facilities, adjust operations or other measures, including any in-house resources, the availability of consultants and contractors in the area with the appropriate expertise, and the availability of financing for any identified facility construction or other capital project, including the Water Pollution Control Revolving Fund;
- (ii) Current conditions at the site, including existing treatment processes, the physical characteristics of the property, and the layout of the facility on the property;
- (iii) Sufficient time for operational startup, new plant optimization, and operator training;
- (iv) Factors identified by the permittee that might significantly affect the time necessary to complete one or more of the steps necessary to attain compliance;
- (v) Sufficient time for the permittee to execute and implement a trade pursuant to section 85.5(3)(d);
- (vi) Sufficient time in the event the permittee undertakes a pilot project to develop and/or test new treatment technology for reduction of total inorganic nitrogen or total phosphorus; and
- (vii) Other site specific factors affecting the cost and timing of construction activities.

(b) Exceptions

The numerical effluent limitations set forth in sections 85.5(1)(a)(iii), 85.5(1)(b), and 85.5(2) shall not apply under the following circumstances:

- (i) Where a discharger demonstrates to the satisfaction of the division that its discharge is unlikely to cause or contribute to ambient nutrient concentrations in its receiving waters that exceed the relevant numeric levels for total phosphorus and total nitrogen set forth in section 31.17 of Regulation #31;
 - (ii) Where noncontact cooling water discharges contain nutrients (phosphorus or nitrogen) and nutrients in the discharge originate from the receiving water as intake water or through use of chemicals shown to be necessary for proper operation of the cooling tower;
 - (iii) Where discharges consist solely of ground water that is pumped for the purpose of dewatering a construction site or for building sumps so long as no phosphorus or nitrogen is added to the ground water being discharged; or
 - (iv) If effluent concentrations higher than the applicable numerical limitations under this Control Regulation are adequate to achieve the total phosphorus and total nitrogen instream values set forth in section 31.17 of Regulation #31, then those alternative concentrations will apply as effluent limitations under Regulation #85 rather than the numerical limitations set forth in sections 85.5(1) and 85.5(2) hereof.
- (c) Variances
- (i) Variances from the numerical effluent limits set forth in sections 85.5(1)(a)(iii), 85.5(1)(b) and 85.5(2) of this control regulation may be granted by the division where it is demonstrated by the permittee to the division's satisfaction that the nutrient reduction benefits of meeting the section 85.5 effluent limitations do not bear a reasonable relationship to the economic, environmental, or energy impacts resulting from meeting those effluent limitations. Meeting the effluent limitations in section 85.5 shall be presumed not to bear a reasonable relationship to the associated economic, environmental, or energy impacts where:
 - (A) Greater than 50% of the median annual TN or TP incremental load within the 8-digit Hydrologic Unit Code (HUC) watershed results from permitted process wastewater point source discharges, if
 - for public sector entities, the Municipal Screener value is 2 or greater.
 - for private sector entities, the required increase in treatment will cause more than 10 percent change in the entity's level of profitability, or similar effect on liquidity, solvency, and leverage.
 - (B) 20-50% of the median annual TN or TP incremental load of the 8-digit HUC watershed results from permitted process wastewater point source discharges if:
 - for public sector entities, the Municipal Screener value is 1.5 or greater.
 - for private sector entities, the required increase in treatment will cause 5 to 10 percent change in the entity's level of profitability, or a similar effect on liquidity, solvency, and leverage.
 - (C) < 20% of the median annual TN or TP incremental load of the 8-digit HUC watershed results from permitted process wastewater point source discharges if:
 - for public sector entities, the Municipal Screener value is 1 or greater.
 - for private sector entities, the required increase in treatment will cause less than 5 percent change in the entity's profitability, or a similar effect on liquidity, solvency, and leverage.
 - (ii) A request for a variance shall be accompanied by proposed alternate effluent limits that represent the highest degree of nutrient removal that is consistent with the reasonable relationship test.

(iii) Variances shall be granted, denied, or revised as appropriate at the time of permit issuance or renewal.

(d) Nutrient Trading

(i) Point Source to Point Source Nutrient Trading. The numerical effluent limitations set forth in sections 85.5(1)(a)(iii), 85.5(1)(b) and 85.5(2) may be modified for individual discharge permits pursuant to a trade of nitrogen or phosphorus between point sources where the division has determined that the trade will result in equal or better instream water quality for that parameter at all locations and at all times.

Point source to point source nutrient trades shall be based on a 1:1 ratio.

(ii) Nonpoint Source to Point Source Nutrient Trading. The numerical effluent limitations set forth in sections 85.5(1)(a)(iii), 85.5(1)(b) and 85.5(2) may be modified for individual discharge permits pursuant to a trade of nitrogen or phosphorus credits from a nonpoint source to a point source on a stream segment or watershed basis where the division has determined that the trade achieves a net water quality or environmental benefit and does not cause adverse localized impacts.

Nonpoint source to point source trades shall be based on a minimum 2:1 ratio, but may be revised based on site-specific data that demonstrates a lower ratio achieves the criteria specified in the paragraph above.

(4) MS4 Permit Requirements for Nutrient Source Reductions

The following requirements, at a minimum, shall be incorporated into a CDPS Permit for discharges from a Municipal Separate Storm Sewer System (MS4) required to obtain a CDPS Permit pursuant to Regulation #61.

(a) Public education and outreach on stormwater impacts associated with nutrients. The MS4 permittee must develop, document, and implement a public education program to reduce water quality impacts associated with nitrogen and phosphorus in stormwater runoff and illicit discharges and distribute educational materials or equivalent outreach to targeted sources (e.g., residential, industrial, agricultural, or commercial) that are contributing to, or have the potential to contribute, nutrients to the waters receiving the discharge authorized under the MS4 permit.

CDPS Permits shall authorize MS4 permittees to meet the requirements of this section through contribution to a collaborative program to evaluate, identify, target and provide outreach that addresses sources state-wide or within the specific region or watershed that includes the receiving waters impacted by the MS4 permittee's discharge(s).

(b) Pollution Prevention/Good Housekeeping for Municipal Operations associated with nutrients. The permittee must develop and implement a municipal operations program that has the ultimate goal of preventing or reducing nitrogen and phosphorus in stormwater runoff associated with the MS4 permittee's operations.

Written procedures for an operation and maintenance program to prevent or reduce nitrogen and phosphorus in stormwater runoff associated with the MS4 permittee's operations shall be developed. The program must specifically list the municipal operations (i.e., activities and facilities) that are impacted by this operation and maintenance program.

CDPS Permits shall authorize MS4 permittees to meet the requirements of this section through contribution to a collaborative program to evaluate, identify, and target sources state-wide or within the specific region or watershed that includes the receiving waters impacted by the MS4 permittees' discharge(s).

(5) Nonpoint Source Discharges

(a) Best Management Practice Implementation

(i) Governmental entities, individuals, corporations, partnerships, associations, agencies, and other entities with responsibility for activities or facilities that cause or could reasonably be expected to cause nonpoint source nutrient pollution of waters are encouraged to adopt and implement/install BMPs to the maximum extent practicable to reduce nutrient loads from such sources.

(ii) Agricultural operations that apply supplemental nutrients as part of crop production activities are encouraged to develop and implement nutrient management plans to the maximum extent practicable to reduce nutrient loads from such sources. Nutrient planning should be based on current soil, manure, and plant tissue test results developed in accordance with guidance or industry practice, such as that developed or recognized by Colorado State University.

(iii) The choice of which type of voluntary nonpoint source control measures shall be made by the entities identified in paragraphs (i) and (ii) above.

(iv) The division shall collaborate with owners/operators of agricultural operations in pursuing incentive, grant, and cooperative programs to control nonpoint source pollution related to agricultural and silvicultural practices.

(b) Public Information and Education

(i) The division and entities identified in Section 85.5(5)(a)(i) are encouraged to develop and implement a public information and education program. This program will focus on the prevention of pollution from sources that could be mobilized from present and future activities as well as measures that could abate known nonpoint source pollution. Areas for abatement include, but are not limited to, general agricultural and silvicultural practices, landscaping activities, and other nonpoint sources of nutrients.

(ii) The program will be consistent with the voluntary, incentive-based approach and focus on the general public, and agricultural and local government sectors.

(c) Additional Nonpoint Source Actions

(i) During the triennial review of this control regulation, the division shall report to the commission on the progress implementing the activities addressed under this section.

~~(ii) If voluntary nonpoint source BMPs are not effective in managing nutrients by May 31, 2022, the commission may consider the adoption of prohibitions or precautionary measures to further limit nutrient concentrations.~~

(iii) Pursuant to section 25-8-205(5), C.R.S., ~~after May 31, 2022~~ the commission may consider adopting, in consultation with the commissioner of agriculture, control regulations specific to agricultural and silvicultural practices if the commission determines that ~~demonstrated~~ sufficient progress has not been ~~maintained~~ ~~demonstrated~~ in agricultural ~~and silvicultural~~ nonpoint source nutrient management.

85.6 MONITORING REQUIREMENTS

(1) Monitoring requirements are established by this Control Regulation to evaluate the effectiveness of this ~~C~~ontrol ~~R~~egulation and to determine the sources and load of nutrients at selected locations, and eventual implementation of appropriate and necessary source controls.

(2) Point Source Monitoring - Process Wastewater Dischargers

(a) Applicability. The requirements of this section apply to all DWWTW including federal facilities, and to any non-domestic dischargers in SIC Major Category 20 or that are identified by the division pursuant to section 85.5(2), except that facilities that are excluded from effluent limits as described in Section 85.5(1)(a)(i) are only required to conduct effluent monitoring as described below in Section 85.6(2)(b)(i). Facilities that discharge to lakes may have modified monitoring requirements.

(b) Nutrient Monitoring Program: Facilities identified in subsection (2)(a), above, shall develop, implement, and document a routine water quality monitoring program. The monitoring program shall be designed to characterize the load (coincident flow and concentration) of nutrients in the discharge, the concentrations in the receiving water above the discharge, and the load of nutrients at selected locations in the rivers and streams below the discharge. The monitoring program shall include the following information:

(i) Effluent Monitoring:

(A) Locations: Sampling for nutrients is required in the effluent before it is discharged into the receiving water body at the location where monitoring is performed to satisfy other CDPS and NPDES permit requirements.

(B) Parameters: At a minimum, sufficient data shall be collected to calculate TN, TIN, and TP load. Samples of treated effluent shall be analyzed for total nitrogen (or the components to calculate total nitrogen such as total Kjeldahl nitrogen plus nitrate-nitrite), the components needed to calculate total inorganic nitrogen (typically ammonia, nitrate, and nitrite), and total phosphorus (or the components to calculate total phosphorus). Daily average effluent discharge shall be collected at the same time as the nutrient concentrations are measured.

(C) Frequency: Samples shall be collected a minimum of six times a year (every two months) for minor discharges and monthly for major discharges. Should there be no discharge due to the plant being offline or other reasons, zero discharge will be reported for that monitoring event.

(ii) Stream Nutrient Monitoring:

(A) Locations: Sampling for nutrients is required in the receiving water body:

- upstream of the discharge; and

- at the closest active Colorado Division of Water Resources or United States Geological Survey (USGS) gaging station with daily flow available throughout the year downstream of the discharge's mixing zone; or

- In lieu of the closest downstream Division of Water Resources or USGS gaging station, facilities may take part in collaborative watershed-based monitoring efforts if the parameters and frequency follow sections (B) and (C) below.

(B) Parameters: At a minimum, samples shall be analyzed for total inorganic nitrogen, total nitrogen (total Kjeldahl nitrogen plus nitrate-nitrite, or the components to calculate total nitrogen) and total phosphorus (or the components to calculate total phosphorus). Daily streamflow records will be collected where an established gaging station is present. Where an established gaging station is not available, an alternative streamflow calculation methodology may be approved by the division.

(C) Frequency: Samples shall be collected a minimum of six times a year (every two months) for minor discharges and monthly for major discharges.

(iii) Lake/Reservoir Monitoring: RESERVED

(iv) Timing: Entities shall commence data collection no later than March 1, 2013. Data collection will continue through December 31, 2027.

(3) Data Quality Requirements

(a) The entities collecting the samples will document, and make publicly available the sampling methods, analytical methods, method detection limits, required field condition and physical parameters to be recorded at each sampling event, and quality control and quality assurance protocols in a sampling and analysis plan.

(b) The information required under subsection (a) above, may be evaluated by the division for compatibility with the objectives of this section. Where the division identifies deficiencies in the protocols/methods being used to meet the objectives of subsection (a) above, the entities shall make appropriate revisions such that the division-identified deficiencies are addressed.

(c) All sampling and analysis shall be performed by the entities according to specified methods in 40 C.F.R. Part 136 (2022); methods approved by EPA pursuant to 40 C.F.R. Part 136 (2022); or methods approved by the division. The analytical method for all ambient monitoring conducted in accordance with this regulation shall be capable of reporting results at or below the following method detection limits (MDL):

Total Phosphorus	0.01 mg P /L
Nitrate + Nitrite	0.02 mg N /L
<u>Ammonia</u>	<u>0.02 mg N /L</u>
Total Kjeldahl Nitrogen	0.1 mg N /L
<u>Total Inorganic Nitrogen</u>	<u>0.02 mg N /L</u>
Total Nitrogen	0.1 mg N /L

All results above the MDL must be reported for ambient samples. The analytical method for all effluent monitoring conducted in accordance with this Regulation shall be capable of reporting results at or below the practical quantitation limit (PQL)

(d) The permittee shall submit a certification to the division that the sampling and analysis plan is in place and that monitoring is taking place. This certification is due to the division by 6 months after permit issuance or by March 2013 if the permit was in place prior to March 2013.

(4) Nonpoint Source and Unpermitted Point Source Monitoring

(a) Entities responsible for nonpoint sources and unregulated point sources of nutrients are encouraged to monitor and assess surface water resource quality as identified in Section 85.6(2) to determine the extent and magnitude of nutrient impacts. In addition, the commission recognizes state water conservation, water conservancy, and special irrigation districts as entities that monitor and assess surface water resource quality and encourages making this data publicly available for use in nonpoint source management efforts.

(b) The division shall collaborate with these entities in developing and implementing a nutrients nonpoint source monitoring program to meet the requirements of this control regulation.

(c) Future monitoring activities are encouraged to coordinate with point source nutrient monitoring, the Colorado [Agricultural Water Quality Program at the Colorado Department of Agriculture Agricultural Chemicals Program](#), and other relevant local, state, and federal monitoring efforts.

(d) The responsible entities are encouraged to identify potential funding sources and pursue options for monitoring in areas that do not have a current or future nutrient monitoring program.

(5) Availability and Reporting of Data

All data collected under Section 85.6 shall be maintained by the facility for 5 years after submission in an electronic form. All data collected pursuant to this control regulation shall be submitted to the division by April 15th of each year. The submission shall include geographic location of sampling, CDPS or NPDES permit number (if appropriate), name and identification of the stream flow gage, as follows:

(a) In electronic data deliverable as specified for receipt by the division; or

(b) Electronic submission to an alternative publicly available data repository. If this option is selected, the facility must notify the division by April 15 and the division will make all relevant data accessible to the public.

85.7 DISADVANTAGED COMMUNITIES

(1) Disadvantaged community ("DAC") means a community that has a population of 10,000 or less and meets the required combination of primary and secondary factors specified in section (3) below.

(2) For purposes of determining whether a community meets the definition of a disadvantaged community, the following definitions apply:

(a) "10-YEAR CHANGE IN POPULATION" means the average annual change for a location spanning ten years.

(b) "ASSESSED VALUE/HOUSEHOLD" means taxable resources on a household basis.

(c) "COMMUNITY MEDIAN HOUSEHOLD INCOME" means data that divides local households into two parts with half earning more than the median income and the other half earning less. An income survey completed for another state or federal program can substitute for data that is determined to be unreliable or unavailable.

(d) "COMMUNITY MEDIAN HOME VALUE" means data that divides the value distribution of homes into two parts with half of the homes falling below the median value and half falling above the median value. When data is unreliable or unavailable, the county assessor's list of homes can be substituted.

(e) "COUNTY 10-YEAR CHANGE IN JOBS" means the increase or decrease in total jobs which is comprised of wage and salary jobs as well as self-employed proprietor jobs.

(f) "COUNTY MEDIAN HOUSEHOLD INCOME" means data that divides county households into two parts with half earning more than the median income and the other half earning less than the median income.

(3) A community that meets the required combination of primary and secondary factors as specified below is a disadvantaged community for purposes of this Regulation:

Primary and Secondary DAC Factors

Primary Factors	Benchmark
P1 Community Median Household Income (MHI)	Less than or equal to 80 percent of the state MHI
P2 Community Median Home Value (MHV)	Less than 100 percent of the state MHV
P3 County 10-Year Change in Jobs	Loss in total jobs in the county over a 10 year period
Secondary Factors	Benchmark
S1 County Median Household Income (MHI)	Less than or equal to 80 percent of the state MHI
S2 10-Year Change in Population	Community has lost population over a ten year period
S3 Assessed Value/Household	Community's total assessed value per household is less than the median Colorado municipality assessed value per household

DAC Scenarios

Scenario	Primary Factors	Results	Secondary Factors	Results
1 (P1) MHI and	(P2) MHV or (P3) Change in Jobs	DAC	Unnecessary	
2 (P1) MHI Only	Neither (P2) MHV nor (P3) Change in Jobs	Test secondary	Meet at least two of three	DAC
3 (P1) Unreliable MHI but	Both (P2) MHV and (P3) Change in Jobs	Test secondary	Meet at least two of three	DAC

(4) At the time of submitting a permit application, a community may request that the division make a determination of whether or not the community is a disadvantaged community.

(5) In the event a community's primary or secondary factor data does not represent recent, significant economic distress, or a scenario is marginally disqualifying, a business case may be presented for determination of disadvantaged community status. The business case should be qualitatively based on the factors the community has determined as not reflective of the community's current socio-economic condition. The business case should be submitted to the division, who will review the business case

regarding the disadvantaged community status. The division will determine whether the business case presented provides compelling evidence that the community is a disadvantaged community.

85.8 – 85.14 RESERVED

**85.17 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE:
NOVEMBER 14, 2022 RULEMAKING, FINAL ACTION _____; EFFECTIVE DATE OF
APRIL 30, 2023**

The provisions of sections 25-8-202; 25-8-205; 25-8-304; 25-8-401; 25-8-402; and 25-8-501, C.R.S., provide the specific statutory authority for the adoption of this Control Regulation. The commission has also adopted, in compliance with section 24-4-103(4) C.R.S., the following statement of basis and purpose.

BASIS AND PURPOSE

Monitoring Requirements and Data Quality Requirements: Section 85.6(4)(c) provides that process wastewater effluent monitoring required by Regulation #85 be conducted using analytical methods capable of reporting results at or below the practical quantitation limit (PQL) as required by Regulation #61. This section also requires that ambient water quality monitoring conducted pursuant to this regulation utilize an analytical method capable of reporting results at or below certain listed method detection limits (MDLs). In this rulemaking hearing the commission added MDLs for ammonia and total inorganic nitrogen.

Nonpoint Source: Section 85.5(5) identifies entities with responsibility for activities or facilities that cause, or could be reasonably expected to cause, nonpoint source nutrient pollution and the need for implementation for nonpoint source controls. These activities include the areas of Best Management Practices, public information and education, and additional nonpoint source actions as necessary for nonpoint nutrient management activities. The commission identified these nonpoint source controls as a means to make progress towards protecting existing or restoring impaired classified uses from nutrient pollutants. Prior to each triennial review, the commission directed the division to work with responsible entities and other relevant stakeholders to determine the extent of implementation of the nonpoint source provisions and voluntary BMP implementation. The commission reviewed the information presented in this rulemaking hearing and determined that recent activities have been effective and resulted in reductions of nonpoint sources of nutrients and that the outreach efforts have been effective. The commission removed the 2022 date for determination of effectiveness of the voluntary nonpoint source BMPs and will continue to review the effectiveness of these measures at each triennial review of the regulation.

Typos and corrections: In addition to the substantive changes described above, editorial changes have been made in the regulation to provide clarity.

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Water Quality Control Commission

REGULATION NO. 31 - THE BASIC STANDARDS AND METHODOLOGIES FOR SURFACE WATER

5 CCR 1002-31

[Editor's Notes follow the text of the rules at the end of this CCR Document.]

31.1 AUTHORITY AND SCOPE

31.5 DEFINITIONS

See the Colorado Water Quality Control Act, section 25-8-101 et seq., C.R.S., and the codified water quality regulations additional definitions.

- (1) "ACT" means the Colorado Water Quality Control Act, section 25-8-101 et seq., C.R.S..
- (2) "ACUTE STANDARD" means the level not to be exceeded by the concentration for either a single sample or calculated as an average of all samples collected during a one-day period, except for temperature, which shall be based on the DM (see DM definition). As used in tables II and III, acute represents one-half of the LC-50 that protects 95 percent of the genera in a waterbody from lethal effects. The acute standard is implemented in combination with a selected duration and frequency of recurrence (section 31.9(1)). In determining attainment of the applicable acute standard, the representative nature of the data must be considered.
- (3) "ANTIDegradation RULE" means the rule established in section 31.8.
- (4) "BASIC STANDARDS" means those standards as established in section 31.11.
- (5) "BENEFICIAL USES" means those uses of state surface waters to be protected such as those identified in the classification system.
- (6) "BMP" (Best Management Practices) means a practice or a combination of practices that is determined by a governmental agency after problem assessment, examination of alternative practices, and appropriate public participation, to be the most effective, practicable (including technological, economic, and institutional considerations) means of preventing or reducing the amount of pollution generated by nonpoint sources to a level compatible with quality goals.
- (7) "CHRONIC STANDARD" means the level not to be exceeded by the concentration for either a single representative sample or calculated as an average of all samples collected during a thirty-day period, except for temperature, which shall be based on the WAT (see WAT definition), and chlorophyll a, total nitrogen, and total phosphorus, which shall be based on seasonal averages or annual medians (see tables V and VI). As used in tables II and III, chronic represents the level that protects 95 percent of the genera from chronic toxic effects. Chronic toxic effects include, but are not limited to, demonstrable abnormalities and adverse effects on survival, growth, or reproduction. The chronic standard is implemented in combination with a selected duration and frequency of recurrence (section 31.9(1)). In determining attainment of the applicable chronic standard, the representative nature of the data must be considered.

- (8) "COLD WATER BIOTA" means aquatic life, including trout, normally found in waters where the summer weekly average temperature does not frequently exceed 20 °C.
- (9) "COMMISSION" means the Colorado Water Quality Control Commission.
- (10) "COMPENSATORY WETLANDS" means wetlands developed for mitigation of adverse impacts to other wetlands (e.g. wetlands developed pursuant to section 404 of the federal Act).
- (11) "CONSTRUCTED WETLANDS" means those wetlands intentionally designed, constructed and operated for the primary purpose of wastewater or stormwater treatment or environmental remediation provided under CERCLA, RCRA, or section 319 of the federal Act, if (a) such wetlands are constructed on non-wetland sites that do not contain surface waters of the state, or (b) such wetlands are constructed on previously existing wetland sites, to the extent that approval or authorization under section 404 of the federal Act has been granted for such construction or it is demonstrated that such approval or authorization is not, or was not, required. This term includes, but is not limited to, constructed swales, ditches, culverts, infiltration devices, catch basins, and sedimentation basins that are part of a wastewater or stormwater treatment system or a system for environmental remediation mandated under CERCLA or RCRA. Compensatory wetlands shall not be considered constructed wetlands. Constructed wetlands are not state waters.
- (12) "CREATED WETLANDS" means those wetlands other than compensatory wetlands created in areas which would not be wetlands in the absence of human modifications to the environment. Created wetlands include, but are not limited to wetlands created inadvertently by human activities such as mining, channelization of highway runoff, irrigation, and leakage from man-made water conveyance or storage facilities. Wetlands resulting from hydrologic modifications such as on-channel reservoirs or on-channel diversion structures that expand or extend the reach of adjacent classified state waters are not considered created wetlands.
- (13) "DAILY MAXIMUM TEMPERATURE (DM)" means the highest two-hour average water temperature recorded during a given 24-hour period.
- (14) "DISSOLVED METALS" means that portion of a water and suspended sediment sample which passed through a 0.40 or 0.45 µm (micron) membrane filter. Determinations of "dissolved" constituents are made using the filtrate. This may include some very small (colloidal) suspended particles which passed through the membrane filter as well as the amount of substance present in true chemical solution.
- (15) "DIVISION" means the Division of Administration of the Colorado Department of Public Health and Environment of which the Water Quality Control Division is a part.
- (16) "*E. coli*" means *Escherichia coli*.
- (17) "EFFLUENT-DEPENDENT STREAM" means a stream that would be ephemeral without the presence of wastewater effluent, but has continuous or periodic flows for all or a portion of its reach as the result of the discharge of treated wastewater.
- (18) "EFFLUENT-DOMINATED STREAM" means a stream that would be intermittent or perennial without the presence of wastewater effluent whose flow for the majority of the time is primarily attributable to the discharge of treated water (i.e. greater than 50 percent of the flow consists of treated wastewater for at least 183 days annually, for eight out of the last ten years).
- (19) "EPHEMERAL STREAM" means a stream channel or reach of a stream channel that carries flow during, and for a short duration as the result of, precipitation events or snowmelt. The channel bottom is always above the groundwater table.

(20) "EXISTING QUALITY" means the numeric value that represents the quality of a waterbody and is generally used for comparison with the water quality standard. Existing quality shall be calculated as:

- Total ammonia, nitrate, and the dissolved metals: 85th percentile
- Total recoverable metals: 50th percentile
- Dissolved oxygen in streams: 15th percentile
- *E. coli*: geometric mean
- pH: the range between the 15th and 85th percentiles
- Temperature: For the purposes of determining standards attainment, existing quality is the seasonal maximum DM (acute) and WAT (chronic) which allows one warming event with a 3-year average exceedance frequency. For data records with less than or equal to 3 years, existing quality is equal to the maximum WAT and DM. For data records with 4-6 years, one warming event above the standard is permitted. The warming event allowance is described in Footnote 5(c)(ii) to Table I.

For the purposes of permits implementation, for data records with less than or equal to 3 years of representative upstream data, existing quality is equal to the seasonal or monthly maximum DM (acute) and WAT (chronic). For data records with 4-6 years, for monthly limits, the second highest monthly DM or WAT may be selected for one month in either winter or summer and the remaining months shall be the max DM or WAT.

- Chlorophyll *a*:
 - Lakes and reservoirs: summer (July 1 - September 30) seasonal average of values from the mixed layer
 - Rivers and streams: summer (July 1 - September 30) maximum attached algae
 - Direct Use Water Supply: March 1 - November 30 seasonal average of values from the mixed layer
- Total nitrogen and total phosphorus in lakes and reservoirs: summer (July 1 - September 30) seasonal average of values from the mixed layer
- Total nitrogen and total phosphorus in rivers and streams: annual median

(21) "FEDERAL ACT" means the Clean Water Act, U.S.C. Section 1251 et seq., as amended.

(22) "FIRST (1st) ORDER STREAM" means a stream that has no tributaries, based on USGS mapping at 1:100,000 scale.

(23) "FLOODPLAIN" means any flat or nearly flat lowland that borders a stream, a lake, or an on-channel reservoir and that may be covered by its waters at flood or high stage as described by the parameter of the probable maximum flood or probable maximum high stage.

(24) "HIGHEST ATTAINABLE USE" means the modified use that is both closest to the uses specified in section 31.13 and attainable based on the evaluation of the factors in 31.6(2)(b) that preclude attainment of the use and any other information or analyses that were used to evaluate attainability.

- (25) "LC-50" means the concentration of a parameter that is lethal to 50% of the test organisms within a defined time period.
- (26) "MAXIMUM WEEKLY AVERAGE TEMPERATURE (MWAT)" means the largest WAT in the period of interest. For lakes and reservoirs, the summertime MWAT is assumed to be equivalent to the maximum WAT from at least three profiles distributed throughout the growing season (generally July-September).
- (27) "MIXED LAYER" means that part of a lake that is well-mixed by wind action and can be expected to have relatively homogeneous physical and chemical conditions. In a thermally stratified lake, the mixed layer corresponds to the *epilimnion*; in an unstratified lake, the mixed layer extends to the bottom. The vertical extent of the mixed layer usually is determined by inspection of a vertical profile of temperature.
- (28) "MIXING ZONE" means that area of a waterbody designated on a case-by-case basis by the Division which is contiguous to a point source and in which certain standards may not apply.
- (29) "NUMERIC VALUE" means the measured concentration of a parameter.
- (30) "PARAMETER" means the chemical constituents or other characteristics of the water such as algae, *E. coli*, total dissolved solids, dissolved oxygen, or the magnitude of radioactivity levels, temperature, pH, and turbidity, or other relevant characteristics.
- (31) "PERMIT" means a National Pollutant Discharge Elimination System (NPDES) permit, a Colorado Discharge Permit System (CDPS) permit, or other state water quality permit.
- (32) "POTENTIALLY DISSOLVED METALS" means that portion of a constituent measured from the filtrate of a water and suspended sediment sample that was first treated with nitric acid to a pH of less than 2.0 and let stand for 8 to 96 hours prior to sample filtration using a 0.4 or 0.45 µm (micron) membrane filter. Note the "Potentially Dissolved" method cannot be used where nitric acid will interfere with the analytical procedure used for the constituent measured.
- (33) "PRIMARY CONTACT RECREATION" means recreational activities where the ingestion of small quantities of water is likely to occur. Such activities include but are not limited to swimming, rafting, kayaking, tubing, windsurfing, water skiing, and water play by children.
- (34) "REGIONAL WASTEWATER MANAGEMENT PLAN" means a water quality planning document prepared pursuant to section 208 of the federal Act, sometimes referred to as "208 Plans" or "Water Quality Management Plans."
- (35) "REPRODUCTIVE SEASON" means the portion of the year when fish migration, spawning, egg incubation, fry rearing or other reproductive functions occur.
- (36) "SALINITY" means total dissolved solids (TDS).
- (37) "SECOND (2nd) ORDER STREAM" means a stream which begins downstream of the confluence of two first (1st) order streams and ends downstream of the confluence of two second (2nd) order streams, based on USGS mapping at 1:100,000 scale.
- (38) "STANDARD" means a narrative and/or numeric restriction established by the Commission applied to state surface waters to protect one or more beneficial uses of such waters. Whenever only numeric or only narrative standards are intended, the wording shall specifically designate which is intended.

- (39) "STATE WATERS" means any and all surface and subsurface waters which are contained in or flow in or through this state, but does not include waters in sewage systems, waters in treatment works of disposal systems, waters in potable water distribution systems, and all water withdrawn for use until use and treatment have been completed.
- (40) "STATUS QUO", in the context of temporary modifications, means the numeric values representative of the conditions at the time of the original temporary modification adoption for:
1. the quality of a waterbody, for which a temporary modification is applied, and
 2. the quality, and as appropriate the flow and loading, of effluent discharged into a waterbody, for which a temporary modification is applied.

Status quo shall be calculated as follows using data representative of quality at the time of the original temporary modification adoption, typically using data for the 5 years leading up to the temporary modification. Where such adequate, representative data do not exist, data representative of quality as close in time as practicable to the original temporary modification adoption shall be used.

For consideration of waterbody status quo:

- Total ammonia, nitrate, and dissolved metals (chronic): 85th percentile
- Total recoverable metals (chronic): 50th percentile
- Total ammonia, nitrate, total metals, and dissolved metals (acute): 95th percentile
- Temperature: seasonal maximum DM (acute) and WAT (chronic)
- Other parameters: As appropriate based on the duration and frequency for the water quality standard from Tables I, II, ~~or III~~, V, or VI
- Or, in limited circumstances, as otherwise determined by the Commission on a case-by-case basis

For consideration of effluent status quo:

- Total ammonia, nitrate, and dissolved and total recoverable metals (chronic): maximum 30-day average
- Total ammonia, nitrate, and dissolved and total recoverable metals (acute): maximum daily maximum
- Temperature: seasonal maximum DM (acute) and WAT (chronic)
- Other parameters: As appropriate based on permit implementation approaches of the water quality standard from Tables I, II, ~~or III~~, V, or VI
- Representative effluent flow and loading, as appropriate
- Or, in limited circumstances, as otherwise determined by the Commission on a case-by-case basis

- (41) "TABLES" means tables I, II, ~~and III~~, V, and VI appended to this regulation, which set forth accepted levels for various parameters which will generally protect the beneficial uses of state surface waters.
- (42) "THIRD (3rd) ORDER STREAM" means a stream which begins at the confluence of two second (2nd) order streams and ends downstream of the confluence of two third (3rd) order streams, based on USGS mapping at 1:100,000 scale.
- (43) "TOTAL RECOVERABLE METALS" means that portion of a water and suspended sediment sample measured by the total recoverable analytical procedure described in "Methods for Chemical Analysis of Water and Wastes," U.S. Environmental Protection Agency, March, 1979, or its equivalent.
- (44) "TRIBUTARY WETLANDS" means wetlands that are the headwaters of surface waters or wetlands within the floodplain that are hydrologically connected to surface waters via either surface or groundwater flows. The hydrologic connection may be intermittent or seasonal, but must be of sufficient extent and duration to normally reoccur annually. Tributary wetlands do not include constructed or created wetlands.
- (45) "USE ATTAINABILITY ANALYSIS" means an assessment of the factors affecting the attainment of aquatic life uses or other beneficial uses, which may include physical, chemical, biological, and economic factors.
- (46) "USES" see Beneficial Uses.
- (47) "WARM WATER BIOTA" means aquatic life normally found in waters where the summer weekly average temperature frequently exceeds 20 °C.
- (48) "WATER QUALITY-BASED DESIGNATION" means a designation adopted by the Commission for specific state surface waters pursuant to section 31.8(2), to identify which level of water quality protection such waters will receive under the Antidegradation Rule in section 31.8(1). Such designations are adopted pursuant to the Commission's authority to classify state waters, as set forth in section 25-8-203, C.R.S., and the procedural requirements for classifying state waters shall be applied in adopting such designations.
- (49) "WATER EFFECT RATIO" means a ratio that is computed as a specific pollutant's acute or chronic toxicity value measured in water from the site covered by a standard, divided by the respective acute or chronic toxicity value in laboratory dilution water, as more specifically defined in 40 CFR. subsection 131.36(c) (1993).
- (50) "WATER QUALITY STANDARD" see Standard.
- (51) "WEEKLY AVERAGE TEMPERATURE (WAT)" means the average of daily average temperatures over a seven-day consecutive period, with a minimum of three data points spaced equally through each day. For lakes and reservoirs, the WAT is assumed to be equivalent to the average temperature of the mixed layer. The average temperature of the mixed layer is determined from a vertical profile of equally-spaced temperature measurements, separated by not more than one meter.
- (52) "WETLANDS" means those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions.

31.7 PROCESS FOR ASSIGNING STANDARDS AND GRANTING, EXTENDING, OR REMOVING TEMPORARY MODIFICATIONS AND VARIANCES

Overview: Assigning or changing a standard or granting, removing before its expiration, or extending a temporary modification or variance shall be accomplished by a rule after a rulemaking hearing. The procedures for taking such action shall be the same as the procedures for assigning or changing classifications. See section 31.6(3)(a)(i).

(1) Assigning Standards

The Commission is responsible for promulgating water quality standards as set forth in section 25-8-204, C.R.S. Standards may be narrative and/or numeric and include the following:

(a) Basic Standards

The basic standards in section 31.11 shall apply to all state surface waters at the effective date of the regulation.

(b) Numeric Standards

A numeric standard may be assigned by the Commission either to apply on a statewide basis or to specific state surface waters. A numeric standard will be assigned by the Commission when it is presented with evidence that a particular numeric level for a parameter is the suitable limit for protecting the classified use. A numeric standard consists of a numeric level and may include a description as to how that numeric level is to be measured. Numeric standards will include appropriate averaging periods and appropriate frequencies of allowed excursions. A numeric standard may be exceeded due to temporary natural conditions such as unusual precipitation patterns, spring runoff or drought. Such uncontrollable conditions are not cause for changing the numeric standard.

A temporary modification of a numeric standard may be granted by the Commission if the numeric standard is not being met at the present time, but such numeric standard is necessary to allow the full attainment of the classified use.

Numeric standards will be assigned based on the evidence presented at the classification and numeric-standard-setting hearings. Numeric standards may not necessarily be assigned for all constituents listed in the tables. In making this determination, the Commission will consider the likelihood of such constituents being present in the waters in question naturally or due to point or nonpoint sources, and shall consider the significance of the constituents with respect to protection of the classified uses. Entities having specific water quality data for the waters being classified, such as 208 agencies, local municipalities and industries, and citizens' groups, the Water Quality Control Division, state and federal agencies, environmental organizations, and other interested persons are encouraged to present such information.

The Commission may use any of the following approaches to establish site-specific numeric standards, as it determines appropriate with respect to specific state surface waters. Existing site-specific standards shall remain in effect until superseded by revised standards promulgated pursuant to this section:

(i) Table Value Standards

The Commission may apply the numeric levels set forth in tables I, II, ~~and III, V, and VI~~ as site-specific standards when those levels are determined to be appropriate to protect the applicable classified uses, and the available site-specific information does not indicate that one of the following alternative approaches to numeric standards would be more

appropriate. Acute and chronic standards may be adopted. Numeric standards may not necessarily be assigned for all constituents listed in the tables. Standards for metals may be established by site-specific adoption of the hardness-dependent equations in table III, instead of single-value numeric standards. The numeric levels for various parameters in tables I, II, ~~and III~~, V, and VI, are levels determined by the Commission after careful analysis of all available information and are generally considered to protect the beneficial use classifications. They are intended to guide the Commission and others at the use classification and numeric-standard-setting hearings.

(ii) Ambient Quality-Based Standards

(A) Where ambient water quality levels are worse than specific numeric levels contained in tables I, II, ~~and III~~, V, and VI, but are determined adequate to protect the highest attainable uses, the Commission may adopt one of the two following types of site-specific ambient quality-based standards:

- (I) Feasibility-based Ambient Standard: Where water quality can be improved, but not to the level required by the current numeric standard, a feasibility-based numeric ambient standard may be adopted based on available representative data.
- (II) Natural or Irreversible Ambient Standard: Where no improvement is feasible, or sources and causes are natural, a site-specific numeric standard may be adopted at existing quality based on available representative data. Site-specific acute standards for parameters in Table III shall be based on the 95th percentile value of the available representative data.

(B) Ambient quality-based standards are authorized only where a comprehensive analysis and review is conducted:

- (I) Which identifies the sources and causes of the elevated levels and characterizes existing conditions, including spatial and temporal variation;
- (II) Where sources and causes are not natural, a comprehensive alternatives analysis identifies the improved water quality conditions (if any) that could result from feasible pollution control alternatives;
- (III) Which includes a rationale for either retaining or revising the current use classification(s); and
- (IV) Which characterizes the highest attainable use.

31.17 NUTRIENTS

(1) INTRODUCTION

This section establishes numeric values for total phosphorus, total nitrogen, and chlorophyll a and also sets forth provisions regarding the use of these numeric values for the adoption of water quality standards. The numeric levels for parameters listed in Tables V and VI shall be considered and applied as appropriate by the Commission in establishing site-specific numeric standards, in accordance with section 31.7.

(2) PHASED IMPLEMENTATION OF NUTRIENTS STANDARDS

(a) Use of Total Phosphorus and Total Nitrogen Values for Standards Adoption Prior to December 31, 2027

(i) Lakes and Reservoirs

Prior to December 31, 2027 the values set forth in Table V will be considered for the adoption of water quality standards for specific water bodies in Colorado in the following circumstances.

(A) Waters located upstream of:

(I) all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012,

(II) cooling tower discharges, and

(III) any non-domestic facility subject to Regulation #85 effluent limits and discharging prior to May 31, 2012.

(B) Waters with a Direct Use Water Supply (DUWS) sub-classification.

(C) Waters with public swim beaches that meet the definition of natural swimming areas in C.R.S. § 25-5-801.

(D) Circumstances where the Commission has determined that adoption of numerical standards is necessary to address existing or potential nutrient pollution because the provisions of Regulation #85 will not result in adequate control of such pollution.

(ii) Rivers and Streams

Prior to December 31, 2027 the values set forth in Table VI will be considered for the adoption of water quality standards for specific water bodies in Colorado in the following circumstances.

(A) Waters located upstream of:

(I) all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012,

(II) cooling tower discharges, and

(III) any non-domestic facility subject to Regulation #85 effluent limits and discharging prior to May 31, 2012.

(B) Circumstances where the Commission has determined that adoption of numerical standards is necessary to address existing or potential nutrient pollution because the provisions of Regulation #85 will not result in adequate control of such pollution.

(iii) For each individual segment where numeric standards for total phosphorus, total nitrogen, and chlorophyll a have not yet been adopted, numeric standards will be adopted by the Commission where necessary to:

(A) protect the assigned use classifications, and

(B) comply with the Colorado Water Quality Control Act and the Federal Act.

(b) Use of Interim Total Phosphorus and Total Nitrogen Values for Standards Adoption After December 31, 2027

(i) After December 31, 2027, the values set forth in Tables V and VI will be considered by the Commission when applying numeric standards to individual segments where total phosphorus and total nitrogen standards have not yet been adopted.

(c) Site-Specific Flexibility

In accordance with the preceding subsections, both before and after December 31, 2027, in considering adoption of numeric standards for specific water bodies in Colorado, the Commission may review relevant site-specific factors and conditions in determining what numeric standards are most appropriate, and may adopt standards, either more or less stringent than the standards in Tables V and VI.

(i) Where evidence demonstrates that an alternative numeric standard would be more appropriate for the protection of use classifications, the Commission may consider assigning ambient quality-based standards or site-specific criteria-based standards as outlined in 31.7(1)(b)(ii-iii).

(ii) Where it has been demonstrated that interim values are not feasible to achieve, the Commission may consider modifying the use classification as outlined in Section 31.6(2).

(iii) Where the conditions established in Section 31.7(3)(a) are met, the Commission may consider granting a temporary modification.

~~(a) Overview~~

~~This section establishes interim numeric values for phosphorus, nitrogen and chlorophyll a and also sets forth provisions regarding the use of these numeric values for the adoption of water quality standards.~~

~~(b) Interim Phosphorus Values~~

Table 1 Interim Total Phosphorus Values	
Lakes and Reservoirs, cold > 25 acres	25 µg/L ⁴
Lakes and Reservoirs, warm > 25 acres	83 µg/L ⁴

Lakes and Reservoirs ≤ 25 acres	RESERVED
Rivers and Streams – cold	110 $\mu\text{g/L}^2$
Rivers and Streams – warm	170 $\mu\text{g/L}^2$
¹ -summer (July 1 – September 30) average total phosphorus ($\mu\text{g/L}$) in the mixed layer of lakes (median of multiple depths), allowable exceedance frequency 1 in 5 years.	
² -annual median total phosphorus ($\mu\text{g/L}$), allowable exceedance frequency 1 in 5 years.	

(c) ~~Interim Nitrogen Values (Effective December 31, 2027)~~

Table 2 Interim Total Nitrogen Values	
Lakes and Reservoirs, cold > 25 acres	426 $\mu\text{g/L}^1$
Lakes and Reservoirs, warm > 25 acres	910 $\mu\text{g/L}^1$
Lakes and Reservoirs ≤ 25 acres	RESERVED
Rivers and Streams – cold	1,250 $\mu\text{g/L}^2$
Rivers and Streams – warm	2,010 $\mu\text{g/L}^2$
¹ -summer (July 1 – September 30) average total nitrogen ($\mu\text{g/L}$) in the mixed layer of lakes (median of multiple depths), allowable exceedance frequency 1 in 5 years.	
² -annual median total nitrogen ($\mu\text{g/L}$), allowable exceedance frequency 1 in 5 years.	

(d) ~~Interim Chlorophyll a Values~~

Table 3 Interim Chlorophyll a Values		
Waterbody type		DUWS
Lakes and Reservoirs, cold > 25 acres	8 µg/L ¹	5 µg/L ³
Lakes and Reservoirs, warm > 25 acres	20 µg/L ¹	5 µg/L ³
Lakes and Reservoirs < = 25 acres	RESERVED	5 µg/L ³
Rivers and Streams – cold	150 mg/m2 ²	
Rivers and Streams – warm	150 mg/m2 ²	
¹ -summer (July 1 – September 30) average chlorophyll a (µg/L) in the mixed layer of lakes (median of multiple depths), allowable exceedance frequency 1 in 5 years.		
² -summer (July 1 – September 30) maximum attached algae, not to exceed.		
³ -March 1 – November 30 average chlorophyll a (µg/L) in the mixed layer of lakes (median of multiple depths), allowable exceedance frequency 1 in 5 years.		

(e) ~~Use of Interim Phosphorus Values for Standards Adoption~~

Prior to December 31, 2027 the values set forth in subsection (b) above will be considered for the adoption of water quality standards for specific water bodies in Colorado in the following circumstances:

(i) ~~Waters located upstream of~~

(A) ~~all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012,~~

(B) ~~cooling tower discharges, and~~

(C) ~~any non-domestic facility subject to Regulation #85 effluent limits and discharging prior to May 31, 2012.~~

- ~~(ii) — Circumstances where the Commission has determined that adoption of numerical standards is necessary to address existing or potential nutrient pollution because the provisions of Regulation #85 will not result in adequate control of such pollution.~~

~~(f) — Chlorophyll a Values for Standards Adoption~~

~~Prior to December 31, 2022, the values set forth in subsection (d) above will be considered for the adoption of water quality standards for specific water bodies in Colorado in the following circumstances:~~

~~(i) — Waters located upstream of~~

- ~~(A) — all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012, or with preliminary effluent limits requested prior to May 31, 2012,~~
- ~~(B) — cooling tower discharges, and~~
- ~~(C) — any non-domestic facility subject to Regulation #85 effluent limits and discharging prior to May 31, 2012.~~

~~(ii) — Discretionary Application of the Values for Direct Use Water Supply (DUWS) Lakes and Reservoirs. The Commission may determine that a numerical chlorophyll standard is appropriate for specific water bodies with this sub-classification after consideration of the following factors:~~

- ~~(A) — Whether the public water system using the lake or reservoir as a raw water supply experiences impacts attributed to algae on an intermittent or continual basis;~~
- ~~(B) — Whether there are lake or reservoir use restrictions in place that recognize the importance of the reservoir as a water supply;~~
- ~~(C) — Whether application of this value appropriately balances protection of all classified uses of the lake or reservoir;~~
- ~~(D) — Other site-specific considerations which affect the need for a more protective value.~~

~~(iii) — Circumstances where the Commission has determined that adoption of numerical standards is necessary to address existing or potential nutrient pollution because the provisions of Regulation #85 will not result in adequate control of such pollution.~~

~~(g) — Use of Interim Nitrogen Values for Standards Adoption~~

~~After December 31, 2027, the values set forth in subsection (c) above will be considered for the adoption of water quality standards for specific water bodies in Colorado in the circumstances identified in subsection (e)(i) and (ii) above.~~

~~(h) — Phase 2 Application of Numeric Standards~~

~~After December 31, 2022, the values set forth in subsection (d) will be considered by the Commission when applying numeric standards to individual segments. After December 31, 2022, the values set forth in subsections (b) and (c) for lakes and reservoirs will be considered by the Commission when applying numeric standards to Direct Use Water Supply (DUWS) reservoirs and lakes or lakes and reservoirs with public swim beaches that meet the definition of natural~~

~~swimming areas in C.R.S. § 25-5-801. After December 31, 2027, the values set forth in subsection (b) and (c) will be considered by the Commission when applying numeric standards to individual segments where total phosphorus and total nitrogen standards have not yet been adopted.~~

~~For each individual segment where numeric standards for total phosphorus, total nitrogen, and chlorophyll a have not yet been adopted, numeric standards will be adopted by the Commission where necessary to:~~

- ~~(i) — protect the assigned use classifications, and~~
- ~~(ii) — comply with the Colorado Water Quality Control Act and the Federal Act.~~

~~(i) — Site Specific Flexibility to Consider Alternatives to the Interim Values~~

~~In accordance with the preceding subsection, both before and after December 31, 2027, in considering adoption of numeric standards for specific water bodies in Colorado, the Commission may review relevant site-specific factors and conditions in determining what numeric standards are most appropriate, and may adopt standards, either more or less stringent than the 31.17(b)(c) and (d) interim values.~~

- ~~(i) — Where evidence demonstrates that an alternative numeric standard would be more appropriate for the protection of use classifications, the Commission may consider assigning ambient quality-based standards or site-specific criteria-based standards as outlined in 31.7(1)(b)(ii-iii).~~
- ~~(ii) — Where it has been demonstrated that interim values are not feasible to achieve, the Commission may consider modifying the use classification as outlined in Section 31.6(2).~~
- ~~(iii) — Where the conditions established in Section 31.7(3)(a) are met, the Commission may consider granting a temporary modification.~~

TABLE V - TABLE VALUE STANDARDS⁽¹⁾ FOR NUTRIENTS: LAKES AND RESERVOIRS

TABLE V TABLE VALUE STANDARDS ⁽¹⁾ FOR NUTRIENTS: LAKES AND RESERVOIRS					
Parameter	Aquatic Life ^(2,3) (chronic)		Recreation ^(2,3) (Class E, U, or P) (chronic)		Direct Use Water Supply (DUWS) ^(3,4) (chronic)
	CLASS 1 or CLASS 2 COLD WATER BIOTA	CLASS 1 OR CLASS 2 WARM WATER BIOTA	COLD WATER	WARM WATER	-
Chlorophyll a (µg/L)	8 ⁽⁵⁾	20 ⁽⁵⁾	8 ⁽⁵⁾	20 ⁽⁵⁾	5 ⁽⁶⁾
Nitrogen (µg/L) ^(7,9)	330	600	330	600	—
Phosphorus (µg/L) ^(8,9)	21	36	21	36	—

Table V – Footnotes

- (1) Prior to December 31, 2027, standards for total nitrogen and total phosphorus will be considered for adoption in the specific water bodies described in 31.17(2)(a)(i).
- (2) The chlorophyll a, total nitrogen, and total phosphorus standards are the same for Aquatic Life and Recreation (E, U, or P) uses because these standards were derived based on the target trophic condition and algal abundance that balances the needs of both uses.
- (3) The chlorophyll a, total nitrogen, and total phosphorus standards for Aquatic Life and Recreation apply only to lakes and reservoirs greater than 25 acres in surface area. The chlorophyll a standard for Direct Use Water Supply (DUWS) applies to lakes and reservoirs of any size.
- (4) The Commission may determine that a numerical chlorophyll a standard is appropriate for specific water bodies with the DUWS sub-classification after consideration of the following factors:
 - a. Whether the public water system using the lake or reservoir as a raw water supply experiences impacts attributed to algae on an intermittent or continual basis;
 - b. Whether there are lake or reservoir use restrictions in place that recognize the importance of the reservoir as a water supply;
 - c. Whether application of this value appropriately balances protection of all classified uses of the lake or reservoir;
 - d. Other site specific considerations which affect the need for a more protective value.

- (5) Summer (July 1 - September 30) seasonal average of chlorophyll a ($\mu\text{g/L}$) values from the mixed layer of lakes, allowable exceedance frequency 1-in-5 years.
- (6) March 1 - November 30 seasonal average chlorophyll a ($\mu\text{g/L}$) values from the mixed layer of lakes, allowable exceedance frequency 1-in-5 years.
- (7) Summer (July 1 - September 30) seasonal average total nitrogen ($\mu\text{g/L}$) values from the mixed layer of lakes, allowable exceedance frequency 1-in-5 years.
- (8) Summer (July 1 - September 30) seasonal average total phosphorus ($\mu\text{g/L}$) values from the mixed layer of lakes, allowable exceedance frequency 1-in-5 years.
- (9) Where representative data exist to develop protective standards, the Commission can adopt site-specific total nitrogen and/or total phosphorus standards (represented below as $\text{TN}_{80\text{th}}$ and $\text{TP}_{80\text{th}}$, respectively) for lakes and reservoirs based on site-specific observed vs. expected Secchi depth ratios using the following two-step process.

Where:

Secchi O/E = ratio of observed Secchi depth (meters) vs expected Secchi depth (meters). The expected Secchi depth is calculated from the observed site chlorophyll a concentration ($\mu\text{g/L}$; summer [July 1 - September 30] seasonal average from the mixed layer) using the following equation:

$$\text{Expected Secchi depth} = e^{(2.04 - 0.68 \cdot \ln(\text{Observed chlorophyll } a))}$$

Total Nitrogen (TN), mg/L:

Cold Water:

$$\text{Step A: } \text{TN}_{50\text{th}} = 10^{(-0.608 - 0.790 \cdot \log_{10}(\text{Secchi O/E}))}$$

$$\text{Step B: } \text{TN}_{80\text{th}} = 10^{(0.037 + 0.885 \cdot \log_{10}(\text{TN}_{50\text{th}}))}$$

Warm Water:

$$\text{Step A: } \text{TN}_{50\text{th}} = 10^{((-0.461 - 0.631 \cdot \log_{10}(\text{Secchi O/E}))/1.11)}$$

$$\text{Step B: } \text{TN}_{80\text{th}} = 10^{(0.091 + 0.923 \cdot \log_{10}(\text{TN}_{50\text{th}}))}$$

Total Phosphorus (TP), mg/L:

Cold Water:

$$\text{Step A: TP}_{50\text{th}} = 10^{((-1.14 - 0.780 \cdot \log_{10}(\text{Secchi O/E}))/0.610)}$$

$$\text{Step B: TP}_{80\text{th}} = 10^{(-0.117 + 0.850 \cdot \log_{10}(\text{TP}_{50\text{th}}))}$$

Warm Water:

$$\text{Step A: TP}_{50\text{th}} = 10^{((-1.40 - 0.615 \cdot \log_{10}(\text{Secchi O/E}))/0.810)}$$

$$\text{Step B: TP}_{80\text{th}} = 10^{(0.070 + 0.958 \cdot \log_{10}(\text{TP}_{50\text{th}}))}$$

TABLE VI - TABLE VALUE STANDARDS (INTERIM¹) FOR NUTRIENTS: RIVERS AND STREAMS

TABLE VI TABLE VALUE STANDARDS (INTERIM ⁽¹⁾) FOR NUTRIENTS: RIVERS AND STREAMS				
Parameter	Aquatic Life (chronic)		Recreation (Class E, U, or P) (chronic)	
	CLASS 1 or CLASS 2 COLD WATER BIOTA	CLASS 1 OR CLASS 2 WARM WATER BIOTA	COLD WATER	WARM WATER
Chlorophyll a (mg/m ²)	==	==	150 ⁽²⁾	150 ⁽²⁾
Nitrogen (µg/L) ⁽³⁾	1,250	2,010	==	==
Phosphorus (µg/L) ⁽⁴⁾	110	170	==	==

Table V – Footnotes

- (1) Prior to December 31, 2027, standards for total nitrogen and total phosphorus will be considered for adoption in the specific water bodies described in 31.17(2)(a)(ii).
- (2) Summer (July 1 - September 30) maximum attached algae, not to exceed.
- (3) Annual median total nitrogen (µg/L), allowable exceedance frequency 1-in-5 years.
- (4) Annual median total phosphorus (µg/L), allowable exceedance frequency 1-in-5 years.

31.60 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; NOVEMBER 14, 2022 RULEMAKING; FINAL ACTION _____; EFFECTIVE DATE APRIL 30, 2023

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

BASIS AND PURPOSE

The commission revised the total nitrogen and total phosphorus table value standards for lakes and reservoirs to protect aquatic life and recreation in Colorado. These revisions address recommendations made by EPA in its July 14, 2016 action letter regarding its review of the commission's 2012 adoption of total nitrogen and total phosphorus standards for lakes and reservoirs in Regulation No. 31. In addition, the commission continued its phased implementation of chlorophyll *a*, total nitrogen, and total phosphorus standards in prioritized waterbodies, as described below.

I. Background

Nitrogen and phosphorus are nutrients found in the environment that play strong roles in aquatic ecosystems, including promoting or limiting the growth of aquatic plants and algae. Increased concentrations of nutrients can lead to excess algal abundance that may impact Aquatic Life, Recreation, and Direct Use Water Supply (DUWS) uses.

In March 2012, the commission adopted interim numeric nutrient table value standards for chlorophyll *a* to protect the Aquatic Life, Recreation, and Direct Use Water Supply (DUWS) uses and table value standards for total nitrogen and total phosphorus to protect the Aquatic Life and Recreation uses (31.50). The standards were adopted into Regulation No. 31 at 31.17. The commission also directed the adoption of the standards into the basin regulations (Regulation Nos. 32-38) using a phased approach, starting with adoption of the standards on specific waterbodies beginning in 2017. In 2016, EPA approved the interim numeric values for chlorophyll *a*, approved with recommendations the numeric values for total nitrogen and total phosphorus for lakes and reservoirs, and took no action with respect to the interim numeric values for total nitrogen and total phosphorus for rivers and streams or the delayed effective dates. Therefore, in October 2017, the commission reviewed the phased implementation approach, refined its nutrient control approach to include WQCC Policy 17-1, and set an updated timeline for phased implementation of nutrient standards, including revision of the nutrients standards for lakes and streams and adoption of standards on priority waterbodies through 2027 (31.55).

In this hearing, the commission adopted revised total nitrogen and total phosphorus standards for lakes and reservoirs to address EPA's 2016 recommendations and ensure protective standards are adopted on lakes and reservoirs with Aquatic Life, Recreation, and/or DUWS uses. In addition, consistent with its phased implementation approach, the commission adopted these standards on lakes and reservoirs that are above certain discharges, are DUWS reservoirs, and/or have public swim beaches; after 2027, these standards will be adopted on all remaining lakes and reservoirs with Aquatic Life, Recreation, and/or DUWS uses.

The commission revised 31.17 to accommodate the revised total nitrogen and total phosphorus standards for lakes and reservoirs and reflect Colorado's progress on the phased implementation timeline. These revisions included removing language regarding phased implementation of chlorophyll *a* standards, which, consistent with the phased implementation timeline developed in 2012 (31.50(VI)(A)) and 2017 (31.55), now apply to all waterbodies with Aquatic Life, Recreation, and/or DUWS uses in Colorado.

II. Chlorophyll a Standards for Lakes, Reservoirs, Rivers, and Streams

The commission made no changes to the chlorophyll a table value standards to protect Aquatic Life, Recreation, and/or DUWS uses in lakes, reservoirs, rivers, or streams. In addition, the commission made no changes to existing site-specific chlorophyll a standards.

Adoption of chlorophyll a standards was previously limited to specific segments or portions of segments, as outlined in 31.50(VI)(A) (i.e., waterbodies above certain discharge facilities and site-specific situations where numeric standards were needed to protect uses). In this rulemaking hearing, consistent with the phased implementation strategy developed in 2012 (31.50(VI)(A)) and 2017 (31.55), the commission considered chlorophyll a standards statewide, and adopted chlorophyll a standards to all segments with Aquatic Life, Recreation, and/or DUWS uses as appropriate in Regulations Nos. 32-38. Specifically, the commission adopted the chlorophyll a table value standard of 8 µg/L for all cold water lakes or reservoirs (larger than 25 acres) with Aquatic Life or Recreation E, U, or P uses; 20 µg/L for all warm water lakes or reservoirs (larger than 25 acres) with Aquatic Life or Recreation E, U, or P uses; 5 µg/L for all lakes or reservoirs (of any size) with DUWS; and 150 mg/m² for all cold or warm water streams with a Recreation E, U, or P use. The phased implementation of the chlorophyll a standards adoption is now complete.

III. Revision of Total Nitrogen and Total Phosphorus Table Value Standards for Lakes and Reservoirs

In a rulemaking hearing in March 2012 (31.50), the commission adopted interim numeric nutrient table value standards for chlorophyll a, total nitrogen, and total phosphorus to protect the Aquatic Life, Recreation, and Direct Use Water Supply (DUWS) uses in lakes, reservoirs, rivers, and streams. The lakes and reservoirs standards were developed using a single empirical response and central tendency to model the average response of chlorophyll a per unit of total nitrogen and total phosphorus.

In its July 14, 2016 action letter, EPA approved the commission's 2012 adoption of interim numeric values for chlorophyll a, and approved with recommendations the numeric values for total nitrogen and total phosphorus for lakes and reservoirs. To ensure that the total nitrogen and total phosphorus standards are protective of uses, EPA recommended revisiting the analysis for lakes to account for the variability between lakes (e.g., Cold and Warm lakes), evaluating confounding factors in the stressor-response relationship between nutrients and chlorophyll a, and evaluating whether the standards are protective of lakes with a high chlorophyll a yield per unit of nutrient.

The revised total nitrogen and total phosphorus table value standards adopted in this rulemaking hearing were developed in collaboration between the division and the lakes nutrients technical advisory committee (TAC), and included stakeholder outreach through the 10-year Water Quality Roadmap workgroup. The methods used to develop these standards are described below and the technical analysis to support these revisions can be found in WQCD Exhibit XX. The revised standards, which were added to new Table V at 31.17, are intended to address EPA's 2016 recommendations and ensure that the uses of Colorado's lakes and reservoirs are protected.

A. Data used in Total Nitrogen and Total Phosphorus Table Value Standards Revisions

Revisions to numeric total nitrogen and total phosphorus standards for lakes and reservoirs were developed using an updated statewide dataset. The averaging period of July - September was unchanged. While the dataset used in 2012 was limited to lakes that had at least three samples per growing season (July - September) at a dam location, the updated dataset included lakes with any representative sampling events during the growing season (July - September) from both dam and mid-lake locations to ensure that the range of lake and nutrients conditions throughout Colorado was represented. This approach significantly increased the number of lakes and reservoirs in the dataset, including waterbodies and conditions that were previously unrepresented in the dataset.

B. Approach to Developing Revised Total Nitrogen and Total Phosphorus Table Value Standards

The commission relied on the same multi-step method that was used to derive the interim nutrient standards in 2012. This multi-step method was uncontested in EPA's 2016 action letter, and therefore was maintained for the revision of numeric nutrient standards in this hearing using the updated dataset. The method consists of four steps: Step 1) set the target chlorophyll *a* values (8 µg/L for Cold lakes and 20 µg/L for Warm lakes) to an 80th percentile for the purpose of incorporating a one in five year exceedance frequency into the numeric nutrient standards. Step 2) translate the chlorophyll *a* target from an 80th percentile to the median using a subset of well-sampled lakes and reservoirs with at least five years of chlorophyll *a* data. Step 3) use the statewide relationships between chlorophyll *a* and total nitrogen or total phosphorus to define target total nitrogen and total phosphorus standards. Step 4) use the well-sampled lakes to translate the target values back to 80th percentiles, which are the final numeric nutrient standards that incorporate the one in five year exceedance frequency.

1. Classification: Warm Lakes and Cold Lakes

The commission relied on the same chlorophyll *a* targets that were used to derive the interim nutrient standards in 2012, 8 µg/L for Cold lakes and 20 µg/L for Warm lakes. The total nitrogen and total phosphorus values based on these chlorophyll *a* targets are intended to maintain a trophic condition that balances and is protective of both Recreation and Aquatic Life uses in lakes and reservoirs. In 2012, the classification and stressor-response work used a single simple linear regression to characterize the average nutrient response for the target trophic condition for all lakes statewide. Based on EPA's 2016 recommendation, the analysis to support the current revision separated Cold and Warm lakes to characterize the typical condition of lake nutrient responsiveness with more resolution. Additional classifications better addressed the wide range of physical conditions found in Colorado and the variability of the algal response to nutrients from lake to lake.

2. Stressor-response Relationship: Confounding Factors and High-yield Lakes

The stressor-response relationship between chlorophyll *a* and total nitrogen or total phosphorus was modeled using quantile regression to determine the appropriate threshold for establishing numeric standards (Step 3). Quantile regression analysis was selected over the simple linear regression approach used in 2012 because the updated dataset violated the statistical assumptions that linear regression relies upon. By selecting a quantile above the median, quantile regression analysis is also able to tailor the analysis to target high-yield lakes and address non-specific confounding factors that affect the chlorophyll *a* response to nutrients in a lake. Given EPA's 2016 recommendation to account for and protect lakes that are more productive than average, the 75th quantile of the statewide relationship between chlorophyll *a* and total nitrogen or total phosphorus was selected. This quantile is useful for nutrient standards development, as it represents the typical (or median) relationship of chlorophyll *a* to nutrients in higher-yield lakes (i.e., lakes in the upper half of responsiveness to nutrients).

The stressor-response analysis also evaluated a range of confounding factors, as recommended by EPA. Secchi observed over expected (O/E), an estimate of the degree of algal or non-algal turbidity, was added as a covariate into the models used to develop total nitrogen and total phosphorus standards for cold waters because its inclusion provided for greater explanation of variance in the cold lakes stressor-response models. To calculate the total nitrogen and total phosphorus standards for cold lakes using the models with the Secchi O/E covariate, the long-term typical existing quality in lakes and reservoirs was calculated using the median existing quality Secchi O/E for all cold lakes using lakes with at least three years of data.

Warm lakes in the dataset exhibited less variability; therefore, no covariates were used in the models to derive table value standards for warm water lakes.

3. Exceedance Frequency

Because the commission relied on the same multi-step method that was used to derive the interim nutrient standards in 2012 and no concerns were raised in the 2016 EPA action letter, the commission also retained the same exceedance frequency of one in five years. Nutrients standards were calculated at the central tendency (50th percentile) using annual lake data (Step 3). Relationships between the central tendency and the 80th percentile were defined to translate the nutrient targets to final standards with a one in five year exceedance frequency (Step 4). The only change in this method from 2012 was that these relationships were defined for Cold and Warm lakes separately for total nitrogen and total phosphorus to continue to address EPA's 2016 recommendation to increase the number of lake classifications to better account for variability in the stressor response relationship.

C. Site-Specific Conditions

The commission recognizes that the response of algae to nutrients can vary based on lake-specific conditions. During the development of the revised nutrients table value standards for lakes and reservoirs, accompanying models were developed that utilize site-specific covariate data to develop site-specific total nitrogen and total phosphorus standards (31.17, Table V Footnote 9). Use of lake-specific Secchi O/E data in these models recognizes the importance of non-algal turbidity on the relationship between chlorophyll *a* and nutrient constituents in lake systems. The commission acknowledges that, where representative data exist for Secchi O/E, these equations are available for use with lake-specific data to support development of site-specific standards in conjunction with a longevity plan. WQCD Exhibit XX includes considerations for use, minimum data requirements, and a calculator to support use of the equations at 31.17 Table V Footnote 9.

D. Implementation of the Revised Total Nitrogen and Total Phosphorus Table Value Standards for Lakes and Reservoirs

1. Magnitude, Duration, and Frequency

The revised numeric nutrients standards for total nitrogen and total phosphorus are intended to address EPA's 2016 recommendations regarding the magnitude of the standards, but do not make adjustments to either the duration or frequency. These standards continue to be applied using growing season (July through September) average concentrations with an allowable exceedance frequency of once in five years. Consistent with the approach used in 2012, these numeric values are only applied to lakes greater than 25 acres in size and that have a residence time of at least 14 days. The standards apply at a dam or mid-lake assessment location and do not apply to shore samples.

2. Phased Implementation

In this rulemaking hearing, consistent with the phased implementation strategy developed in 2012 (31.50(VI)(A)) and 2017 (31.55), the commission updated the table value standards for total nitrogen and total phosphorus for lakes and reservoirs, and adopted them as appropriate in Regulations Nos. 32-38. Specifically, the commission adopted standards of 330 µg/L total nitrogen and 21 µg/L total phosphorus for cold water lakes or reservoirs (larger than 25 acres) and 600 µg/L total nitrogen and 36 µg/L total phosphorus for warm water lakes or reservoirs (larger than 25 acres) with Aquatic Life or Recreation E, U, or P uses that are above certain discharges, are DUWS reservoirs,

and/or have public swim beaches (defined as waterbodies with a natural swimming area per C.R.S § 25-5-801, including having a fee-based cordoned off swim area). The commission made no changes to existing site-specific phosphorus standards.

The commission's application of total nitrogen and total phosphorus standards in this rulemaking hearing was prioritized for the Aquatic Life use, Recreation use, and public health via applications of table value standards to DUWS and swim beaches. However, the commission acknowledges that total nitrogen and total phosphorus standards have not been adopted to protect the 5 µg/L chlorophyll *a* target associated with the DUWS sub-classification. The commission expects that future consideration of nutrients table value standards for lakes and reservoirs will include development of total nitrogen and total phosphorus standards to protect this use.

E. Revisions to 31.17 and Other Sections of Regulation No. 31

To accommodate the revised total nitrogen and total phosphorus standards for lakes and reservoirs, additional changes were made in Regulation No. 31, including:

- The definition of “chronic standard” at 31.5(7) was expanded to include chlorophyll *a*, total nitrogen, and total phosphorus.
- The definition of “existing quality” at 31.5(20) was expanded to include chlorophyll *a*, total nitrogen, and total phosphorus.
- The layout of the tables containing the table value standards for chlorophyll *a*, total nitrogen, and total phosphorus (previously included in 31.17 (a-d)) was revised and reorganized into new Table V (nutrient standards for lake and reservoirs) and Table VI (nutrient standards for rivers and streams). This approach improves clarity, and provides consistency with the table value standards in Tables I, II, and III. This approach also recognizes that the nutrients standards for lakes and reservoirs protect different uses than the nutrients standards for rivers and streams, and better accommodates the differences in the phased implementation timeline for each waterbody type.
- References to new Table V and Table VI were added in various sections of Regulation No. 31 that discussed table value standards and previously only referenced Tables I, II, and III.
- The footnotes applied to the nutrients standards tables in 31.17 were revised to improve clarity, including the removal of the phrase “median of multiple depths” because the phrase was unclear and methods and processes for determining attainment of nutrient standards will be consistent with the Section 303(d) Listing Methodology as adopted by the commission for that particular listing cycle.

Revisions to 31.17 were also needed to reflect Colorado's progress on the phased implementation timeline, including:

- The language regarding phased implementation of chlorophyll *a* standards for lakes, reservoirs, rivers, and streams was removed. Consistent with the phased implementation timeline developed in 2012 (31.50(VI)(A)) and 2017 (31.55), chlorophyll *a* standards now apply to all waterbodies with Aquatic Life, Recreation, and/or DUWS uses in Colorado. This phase of the implementation timeline is complete.
- Section 31.17 was reorganized to more clearly describe the circumstances in which total nitrogen and total phosphorus will apply to lakes and streams throughout the phased implementation timeline.

DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Water Quality Control Commission

REGULATION NO. 32 - CLASSIFICATIONS AND NUMERIC STANDARDS FOR ARKANSAS RIVER BASIN

5 CCR 1002-32

32.1 AUTHORITY

These regulations are promulgated pursuant to section 25-8-101 et seq. C.R.S., as amended, and in particular, 25-8-203 and 25-8-204.

32.2 PURPOSE

These regulations establish classifications and numeric standards for the Arkansas River, including all tributaries and standing bodies of water as indicated in section 32.6. The classifications identify the actual beneficial uses of the water. The numeric standards are assigned to determine the allowable concentrations of various parameters. Discharge permits will be issued by the Water Quality Control Division to comply with basic, narrative, and numeric standards and control regulations so that all discharges to waters of the state protect the classified uses. It is intended that these and all other stream classifications and numeric standards be used in conjunction with and be an integral part of Regulation No. 31 Basic Standards and Methodologies for Surface Water.

32.3 INTRODUCTION

These regulations and tables present the classifications and numeric standards assigned to stream segments listed in the attached tables (See Appendix 32-1). As additional stream segments are classified and numeric standards for designated parameters are assigned for this drainage system, they will be added to or replace the numeric standards in the tables in Appendix 32-1. Any additions or revisions of classifications or numeric standards can be accomplished only after public hearing by the Commission and proper consideration of evidence and testimony as specified by the statute and the "Basic Standards and Methodologies for Surface Water".

32.4 DEFINITIONS

See the Colorado Water Quality Control Act and the codified water quality regulations for definitions.

32.5 BASIC STANDARDS

(1) Temperature

All waters of the Arkansas River Basin are subject to the following standard for temperature. (Discharges regulated by permits, which are within the permit limitations, shall not be subject to enforcement proceedings under this standard). Temperature shall maintain a normal pattern of diurnal and seasonal fluctuations with no abrupt changes and shall have no increase in temperature of a magnitude, rate, and duration deemed deleterious to the resident aquatic life. This standard shall not be interpreted or applied in a manner inconsistent with section 25-8-104, C.R.S.

(2) Qualifiers

See Basic Standards and Methodologies for Surface Water for a listing of organic standards at 31.11 Table B and metal standards found at 31.16 Table III. The column in the tables headed "Water + Fish" are presumptively applied to all aquatic life class 1 streams which also have a water supply classification, and are applied to aquatic life class 2 streams which also have a water supply classification, on a case-by-case basis as shown in Appendix 32-1. The column in the tables at 31.11 and 31.16 Table III headed "Fish Ingestion" is presumptively applied to all aquatic life class 1 streams which do not have a water supply classification, and are applied to aquatic life class 2 streams which do not have a water supply classification, on a case-by-case basis as shown in Appendix 32-1.

(3) Uranium

- (a) All waters of the Arkansas River Basin are subject to the following basic standard for uranium, unless otherwise specified by a water quality standard applicable to a particular segment. However, discharges of uranium regulated by permits which are within these permit limitations shall not be a basis for enforcement proceedings under this basic standard.
- (b) Uranium levels in surface waters shall be maintained at the lowest practicable level.
- (c) In no case shall uranium levels in waters assigned a water supply classification be increased by any cause attributable to municipal, industrial, or agricultural discharges so as to exceed 16.8-30 µg/L or naturally-occurring concentrations (as determined by the State of Colorado), whichever is greater.
 - (i) The first number in the 16.8-30 µg/L 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.

(4) Nutrients

See Basic Standards and Methodologies for Surface Water at 31.17 for a listing of chlorophyll a, total nitrogen, and total phosphorus standards for lakes and reservoirs (Table V) and rivers and streams (Table VI). As described in 31.17(2), total nitrogen and total phosphorus standards will be considered for adoption in phases.

Prior to December 31, ~~2022~~ for chlorophyll a and prior to December 31, 2027 for, total nitrogen and total phosphorus, interim nutrient values will be considered for adoption only in the limited circumstances defined at 31.17(~~e2~~)(a)(i) and (~~f~~). ~~These~~ ii). For lakes and reservoirs, these circumstances include ~~headwaters, waterbodies upstream of certain domestic and non-domestic wastewater treatment facilities (31.17(2)(a)(i)(A)), waterbodies with a Direct Use Water Supply (DUWS) Lakes and Reservoirs, sub-classification (31.17(2)(a)(i)(B)), waterbodies with public swim beaches (31.17(2)(a)(i)(C)),~~ and other special circumstances determined by the Commission. ~~Additionally, prior to December 31, 2027, only total phosphorus and chlorophyll a will be~~

~~considered for adoption. After December 31, 2027, total nitrogen will be considered for adoption per the (31.17(2)(a)(i)(D)). For rivers and streams, these circumstances outlined in 31.17(g).~~

~~Prior to December 31, 2027, nutrient criteria will be adopted for headwaters on a segment by segment basis for the Arkansas River Basin. Moreover, pursuant to 31.17(e) nutrient standards will only be adopted for waters upstream of all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012, and any non-domestic include waterbodies upstream of certain domestic and non-domestic wastewater treatment facilities subject to Regulation 85 effluent limits and discharging prior to May 31, 2012. The (31.17(2)(a)(ii)(A)) and other special circumstances determined by the Commission (31.17(2)(a)(ii)(B)).~~

Pursuant to 31.17(2)(a)(i)(A) and 31.17(2)(a)(ii)(A), the following is a list of all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012, cooling tower discharges, and any non-domestic facilities subject to Regulation 85 effluent limits and discharging prior to May 31, 2012 in the Arkansas River Basin:

Segment	Permittee	Facility name	Permit No.
COARUA02b	Leadville MHC LLC	Lake Fork MHP	COG588060
COARUA03	Buena Vista Sanitation District	Buena Vista San Dist WWTF	CO0045748
COARUA03	Salida City of	Salida WWTF	CO0040339
COARUA04a	Fremont Sanitation District	Rainbow Park WWTF	CO0039748
COARUA05	Young Life Campaign Inc	Frontier Ranch	CO0034304
COARUA05	Moose Haven Condominiums	Moose Haven Condominiums	CO0047279
COARUA05	Mountain View Villages Water & Sanitation District	Mountain View Villages	CO0048372
COARUA06	Leadville Sanitation District	Leadville San Dist WWTF	CO0021164
COARUA12a	Mount Princeton Hot Springs Resort	Mount Princeton Hot Springs Resort WWTF	COG588017
COARUA12a	Christian Mission Concerns	Silver Cliff Ranch	COG588102
COARUA13	Monarch Mountain Lodge	Garfield WWTF	CO0028444
COARUA13	PowderMonarch LLC	Monarch Ski Area	CO0031399
COARUA14d	Penrose Sanitation District	Penrose WWTF	CO0046523
COARUA14d	Royal Gorge Company of Colorado	Royal Gorge	CO0029033
COARUA21a	Cripple Creek City of	Cripple Creek WWTF	CO0039900
COARUA23	Victor City of	Victor WWTF	CO0024201
COARMA04a; COARMA04g	Pueblo West Metro District	Pueblo West Metro District WWTF	CO0040789
COARMA04c	Sunset Metropolitan District	Ellicott Springs WWTF	CO0047252
COARMA04c	Woodmen Hills Metropolitan District	Woodmen Hills Metro Dist WWTF	CO0047091
COARMA04d	Avondale Water and Sanitation District	Avondale and Fort Reynolds WWTF	CO0021075
COARMA04f	Cherokee Metropolitan District	Cherokee Metropolitan District WRF	COX048348
COARMA09	Colorado City Metropolitan District	Colorado City Metro Dist WWTF	CO0021121
COARMA13b	Cucharas Sanitation and Water District	Cucharas WWTF	CO0043745
COARMA14	La Veta Town of	La Veta WWTF	CO0032409
COARMA14	City of Walsenburg	Walsenburg City of	CO0020745
COARFO02a	Fountain Sanitation District	Fountain Sanitation District WWTF	CO0020532
COARFO02a	Colorado Springs Utilities	Las Vegas Street WWTF	CO0026735

Segment	Permittee	Facility name	Permit No.
COARFO02a	Security Sanitation District	Security Sanitation District WWTF	CO0024392
COARFO02a	Widefield Water and Sanitation District	Widefield WSD WWTF	CO0021067
COARFO04	Academy Water and Sanitation District	Academy Water and San Dist WWTF	COG589020
COARFO04	Broadmoor Park Properties	Broadmoor Park Properties	COG589021
COARFO04	Academy School Dist 20	Edith Wolford Elem School	CO0048429
COARFO04	Lower Fountain Metropolitan Sewage Disposal District	HDTRWRF	CO0000005
COARFO06	Colorado Springs Utilities	J D Phillips Water Reclamation Facility	CO0046850
COARFO06	Tri-Lakes Wastewater Treatment Facility	Tri-Lakes WWTF	CO0020435
COARFO06	Donala Water and Sanitation District	Upper Monument Crk Reg WWTF	CO0042030
COARLA01a	Pueblo City of	James R Dilorio WRF	CO0026646
COARLA01a	Meadowbrook MHP LLC	Meadowbrook MHP	COG588022
COARLA01b	Crowley County Correctional	Crowley Correctional Facility	CO0046795
COARLA01b	Colorado Dept of Corrections	Fort Lyon Correctional Facility WWTF	CO0046311
COARLA01b	Colorado Dept of Corrections	Fort Lyon Correctional Facility WWTF	CO0048801
COARLA01b	Fowler Town of	Fowler WWTF	CO0021571
COARLA01b	Las Animas City of	Las Animas WWTF	CO0040690
COARLA01b	North La Junta Sanitation District	North La Junta San Dist WWTF	CO0039519
COARLA01b	Rocky Ford City of	Rocky Ford WWTF	CO0023850
COARLA02a	Boone Town of	Boone WWTF	COG589116
COARLA02a	Calhan Town of	Calhan WWTF	COG589018
COARMA13c	Country Host Motel	Country Host Motel	COG589038
COARLA02a	Crowley Town of	Crowley WWTF	CO0041599
COARLA02a	Eads Town of	Eads WWTF	COG589016
COARLA02d	Limon, Town of	Limon WWTF	COG589023
COARLA02a	Simla Town of	Simla WWTF	COG589031
COARLA02d	Springfield Town of	Springfield WWTF	COG589102
COARLA02d	Colorado Dept of Corrections	Trinidad Correctional Facility	CO0046094
COARLA02b	La Junta City of	La Junta WWTF	CO0021261
COARLA05b	Trinidad City of	Trinidad WWTF	CO0024015
COARLA05b; COARLA06a	Cokedale Town of	Cokedale WWTF	CO0048461
COARLA07	Hoehne School District R-3	Hoehne School	COG588110
COARLA07	Trinidad City of	Trinidad WWTF	CO0031232
Unclassified	Colorado Dept of Natural Resources	Arkansas Point WWTF	COG589008
Unclassified	Manzanola, Town of	Manzanola WWTF	COG589012
Unclassified	Wiley Sanitation District	Wiley San Dist WWTF	COG589007

Prior to ~~May-December~~ 31, ~~2022~~2027:

- For segments located entirely above these facilities, total nitrogen and total phosphorus ~~nutrient~~ standards apply to the entire segment.

- For segments with portions downstream of these facilities, total nitrogen and total phosphorus nutrient standards only apply only above these facilities, except where a waterbody has a DUWS sub-classification or public swim beach. A note was added to the total phosphorus and ~~chlorophyll a~~ total nitrogen standards in these segments. The note references the table of qualified facilities at 32.5(4).
- For segments located entirely below these facilities, total nitrogen and total phosphorus nutrient standards do not apply, except where a waterbody has a DUWS sub-classification or public swim beach.
- Additionally, for segments with portions downstream of these facilities or for segments located entirely below these facilities, total nitrogen and total phosphorus standards may apply where special circumstances have been identified by the Commission (31.17(2)(a)(i)(D) and 31.17(2)(a)(ii)(B)).

~~A note was added to the total phosphorus and chlorophyll a standards in lakes segments as nutrients standards apply only to lakes and reservoirs larger than 25 acres surface area.~~

32.6 TABLES

(1) Introduction

The numeric standards for various parameters in this regulation and in the tables in Appendix 32-1 were assigned by the Commission after a careful analysis of the data presented on actual stream conditions and on actual and potential water uses. For each parameter listed in the tables in Appendix 32-1, only the most stringent standard is shown. Additional, less stringent standards may apply to protect additional uses and can be found in the tables in Regulation No. 31.

Numeric standards are not assigned for all parameters listed in the tables in Regulation No. 31. If additional numeric standards are found to be needed during future periodic reviews, they can be assigned by following the proper hearing procedures.

(2) Abbreviations

- (a) The following abbreviations are used in this regulation and the tables in Appendix 32-1:

Ac	=	acute (1-day)
°C	=	degrees Celsius
Ch	=	chronic (30-day)
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
<i>E. coli</i>	=	<i>Escherichia coli</i>
mg/L	=	milligrams per liter
MWAT	=	maximum weekly average temperature
OW	=	outstanding waters
sp	=	spawning
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

- (b) In addition, the following abbreviations are used:

Iron (chronic)	=	WS
Manganese (chronic)	=	WS
Sulfate (chronic)	=	WS

These abbreviations mean: For all surface waters with an actual water supply use, the less restrictive of the following two options shall apply as numerical standards, as specified in the Basic Standards and Methodologies at 31.16 Table II and III:

- (i) existing quality as of January 1, 2000; or
- (ii) Iron = 300 µg/L (dissolved)
Manganese = 50 µg/L (dissolved)
Sulfate = 250 mg/L (dissolved)

For all surface waters with a “water supply” classification that are not in actual use as a water supply, no water supply standards are applied for iron, manganese or sulfate, unless the Commission determines as the result of a site-specific rulemaking hearing that such standards are appropriate.

- (c) Temporary Modification for Water + Fish Chronic Arsenic Standard

- (i) The temporary modification for chronic arsenic standards applied to segments with an arsenic standard of 0.02 µg/L that has been set to protect the Water + Fish qualifier is listed in the Other column in Appendix 32-1 tables as As(ch)=hybrid.
- (ii) For discharges existing on or before 6/1/2013, the temporary modification is: As(ch)=current condition, expiring on 12/31/2024. Where a permit for an existing discharge is reissued or modified while the temporary modification is in effect, the division will include additional permit Terms and Conditions, which may include requirements for additional monitoring, source identification, and characterization of source control and treatment options for reducing arsenic concentrations in effluent.
- (iii) For new or increased discharges commencing on or after 6/1/2013, the temporary modification is: As(ch)=0.02-3.0 µg/L (total recoverable), expiring on 12/31/2024.
- (a) The first number in the range is the health-based water quality standard previously adopted by the Commission for the segment.
- (b) The second number in the range is a technology-based value established by the Commission for the purpose of this temporary modification.

- (c) 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.

(3) Table Value Standards

In certain instances in the tables in Appendix 32-1, the designation “TVS” is used to indicate that for a particular parameter a “table value standard” has been adopted. This designation refers to numerical criteria set forth in the Basic Standards and Methodologies for Surface Water. The criteria for which the TVS are applicable are on the following table.

TABLE VALUE STANDARDS
(Concentrations in µg/L unless noted)

PARAMETER ⁽¹⁾	TABLE VALUE STANDARDS ⁽²⁾⁽³⁾					
Aluminum(T)	Acute = $e^{(1.3695 \ln(\text{hardness}) + 1.8308)}$ pH equal to or greater than 7.0 Chronic = $e^{(1.3695 \ln(\text{hardness}) - 0.1158)}$ pH less than 7.0 Chronic = $e^{(1.3695 \ln(\text{hardness}) - 0.1158)}$ or 87, whichever is more stringent					
Ammonia ⁽⁴⁾	Cold Water = (mg/L as N) Total $acute = \frac{0.275}{1 + 10^{7.204 - pH}} + \frac{39.0}{1 + 10^{pH - 7.204}}$ $chronic = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * MIN(2.85, 1.45 * 10^{0.028(25 - T)})$ Warm Water = (mg/L as N) Total $acute = \frac{0.411}{1 + 10^{7.204 - pH}} + \frac{58.4}{1 + 10^{pH - 7.204}}$ $chronic (Apr 1 - Aug 31) = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * MIN(2.85, 1.45 * 10^{0.028(25 - T)})$ $chronic (Sep 1 - Mar 31) = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * 1.45 * 10^{0.028(25 - MAX(T, 7))}$					
Cadmium	Acute(warm) ⁽⁵⁾ = $(1.136672 - (\ln(\text{hardness}) * 0.041838)) * e^{(0.9789 \ln(\text{hardness}) - 3.443)}$ Acute(cold) ⁽⁵⁾ = $(1.136672 - (\ln(\text{hardness}) * 0.041838)) * e^{(0.9789 \ln(\text{hardness}) - 3.866)}$ Chronic = $(1.101672 - (\ln(\text{hardness}) * 0.041838)) * e^{(0.7977 \ln(\text{hardness}) - 3.909)}$					
<u>Chlorophyll a⁽⁶⁾</u>	<u>See 31.17 TVS for Aquatic Life and/or Recreation and Direct Use Water Supply (DUWS).</u>					
Chromium III ⁽⁶⁷⁾	Acute = $e^{(0.819 \ln(\text{hardness}) + 2.5736)}$ Chronic = $e^{(0.819 \ln(\text{hardness}) + 0.5340)}$					
Chromium VI ⁽⁶⁷⁾	Acute = 16 Chronic = 11					
Copper	Acute = $e^{(0.9422 \ln(\text{hardness}) - 1.7408)}$ Chronic = $e^{(0.8545 \ln(\text{hardness}) - 1.7428)}$					
Lead	Acute = $(1.46203 - (\ln(\text{hardness}) * 0.145712)) * e^{(1.273 \ln(\text{hardness}) - 1.46)}$ Chronic = $(1.46203 - (\ln(\text{hardness}) * 0.145712)) * e^{(1.273 \ln(\text{hardness}) - 4.705)}$					
Manganese	Acute = $e^{(0.3331 \ln(\text{hardness}) + 6.4676)}$ Chronic = $e^{(0.3331 \ln(\text{hardness}) + 5.8743)}$					
Nickel	Acute = $e^{(0.846 \ln(\text{hardness}) + 2.253)}$ Chronic = $e^{(0.846 \ln(\text{hardness}) + 0.0554)}$					
<u>Nitrogen⁽⁶⁾</u>	<u>See 31.17 TVS for Aquatic Life and/or Recreation.</u>					
<u>Phosphorus⁽⁶⁾</u>	<u>See 31.17 TVS for Aquatic Life and/or Recreation.</u>					
Selenium ⁽⁷⁸⁾	Acute = 18.4 Chronic = 4.6					
Silver	Acute = $0.5 * e^{(1.72 \ln(\text{hardness}) - 6.52)}$ Chronic = $e^{(1.72 \ln(\text{hardness}) - 9.06)}$ Chronic(Trout) = $e^{(1.72 \ln(\text{hardness}) - 10.51)}$					
Temperature	TEMPERATURE TIER	TIER CODE	SPECIES EXPECTED TO BE PRESENT	APPLICABLE MONTHS	TEMPERATURE STANDARD (°C)	
					MWAT	DM
	Cold Stream Tier I	CS-I	brook trout, cutthroat trout	June – Sept. Oct. – May	17.0 9.0	21.7 13.0

	Cold Stream Tier II	CS-II	Other cold-water species	April – Oct.	18.3	24.3
				Nov. – March	9.0	13.0
	Cold Lakes ⁽⁸⁹⁾	CL	brook trout, brown trout, cutthroat trout, lake trout, rainbow trout, Arctic grayling, sockeye salmon	April – Dec.	17.0	21.2
				Jan. – March	9.0	13.0
	Cold Large Lakes (>100 acres surface area) ⁽⁸⁹⁾	CLL	rainbow trout, brown trout, lake trout	April – Dec.	18.3	24.2
				Jan. – March	9.0	13.0
	Warm Stream Tier I	WS-I	common shiner, Johnny darter, orangethroat darter, stonecat	March – Nov.	24.2	29.0
				Dec. – Feb.	12.1	24.6
	Warm Stream Tier II	WS-II	brook stickleback, central stoneroller, creek chub, longnose dace, northern redbelly dace, finescale dace, razorback sucker, white sucker, mountain sucker	March – Nov.	27.5	28.6
				Dec. – Feb.	13.8	25.2
	Warm Stream Tier III	WS-III	all other warm-water species	March – Nov.	28.7	31.8
				Dec. – Feb.	14.3	24.9
	Warm Lakes	WL	black crappie, bluegill, common carp, gizzard shad, golden shiner, largemouth bass, northern pike, pumpkinseed, sauger, smallmouth bass, spottail shiner, stonecat, striped bass, tiger muskellunge, walleye, wiper, white bass, white crappie, yellow perch	April – Dec.	26.2	29.3
				Jan. – March	13.1	24.1
Uranium	Acute = $e^{(1.1021 \ln(\text{hardness}) + 2.7088)}$ Chronic = $e^{(1.1021 \ln(\text{hardness}) + 2.2382)}$					
Zinc	Acute = $0.978 \cdot e^{(0.9094 \ln(\text{hardness}) + 0.9095)}$ Chronic = $0.986 \cdot e^{(0.9094 \ln(\text{hardness}) + 0.6235)}$					

TABLE VALUE STANDARDS - FOOTNOTES

- (1) Metals are stated as dissolved unless otherwise specified. Nitrogen and phosphorus standards are based upon the concentration of total nitrogen and total phosphorus.
- (2) Hardness values to be used in equations are in mg/L as calcium carbonate and shall be no greater than 400 mg/L, except for aluminum for which hardness shall be no greater than 220 mg/L. The hardness values used in calculating the appropriate metal standard should be based on the lower 95 per cent confidence limit of the mean hardness value at the periodic low flow criteria as determined from a regression analysis of site-specific data. Where insufficient site-specific data exists to define the mean hardness value at the periodic low flow criteria, representative regional data shall be used to perform the regression analysis. Where a regression analysis is not appropriate, a site-specific method should be used. In calculating a hardness value, regression analyses should not be extrapolated past the point that data exist.
- (3) Both acute and chronic numbers adopted as stream standards are levels not to be exceeded more than once every three years on the average.
- (4) For acute conditions the default assumption is that salmonids could be present in cold water segments and should be protected, and that salmonids do not need to be protected in warm water segments. For chronic conditions, the default assumptions are that early life stages could be present all year in cold water segments and should be protected. In warm water segments the default assumption is that early life stages are present and should be protected only from April 1 through August 31. These assumptions can be modified by the commission on a site-specific basis where appropriate evidence is submitted. The "T" in the chronic equations stands for temperature.

- (5) The acute(warm) cadmium equation applies to segments classified as Aquatic Life Warm Class 1 or 2. The acute(cold) cadmium equation applies to segments classified as Aquatic Life Cold Class 1 or 2.
- (6) For lakes and reservoirs, the chlorophyll a, total nitrogen, and total phosphorus standards for Aquatic Life and Recreation apply only to lakes and reservoirs greater than 25 acres in surface area. The chlorophyll a standard for Direct Use Water Supply (DUWS) applies to lakes and reservoirs of any size.
- (67) Unless the stable forms of chromium in a waterbody have been characterized and shown not to be predominantly chromium VI, data reported as the measurement of all valence states of chromium combined should be treated as chromium VI. In addition, in no case can the sum of the concentrations of chromium III and chromium VI or data reported as the measurement of all valence states of chromium combined exceed the water supply standards of 50 µg/L chromium in those waters classified for domestic water use.
- (78) Selenium is a bioaccumulative metal and subject to a range of toxicity values depending upon numerous site-specific variables.
- (89) Lake trout-based summer temperature criteria [16.6 (ch), 22.4 (ac)] apply where appropriate and necessary to protect lake trout from thermal impacts.

(4) Site-specific Standards, Assessment Locations, and Assessment Criteria

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

- (a) Middle Arkansas Segment 4a, Wildhorse Creek, Se(ac)=2376, Se(ch)=2110: Selenium Assessment Location
- Wildhorse Creek above Pesthouse Gulch: 38.296478, -104.649201
- (b) Middle Arkansas Segment 4g, Pesthouse Gulch, Se(ac)=389, Se(ch)=369: Selenium Assessment Location
- Pesthouse above No Name: 38.309568, -104.672244
- (c) Middle Arkansas Segment 6b, St. Charles River, Se(ac)=173, Se(ch)=50: Selenium Assessment Locations

Determinations of attainment of the chronic and acute selenium standards will be based on the 85th and 95th percentile, respectively of all available data from the segment. The selenium assessment locations are:

- SC-5: St. Charles River approximately one mile downstream of the confluence with Edson Arroyo.
- SC-6-US: St. Charles River upstream of the confluence with Thomkins Arroyo and the Comanche discharge.
- SC-7: Approximately 2 miles upstream of the Bessemer Canal crossing.
- SC-8: Immediately upstream of the Bessemer Canal crossing.

- SC-9: St. Charles River downstream of where the river flows under U.S. Highway 50, approximately 3 miles upstream of the confluence with the Arkansas River.
- (d) Middle Arkansas Segment 20, Pueblo Reservoir: Chlorophyll a Assessment Location
- Site 7b (USGS Site 381602104435200): Near the dam and the south outlet works
- (5) Stream Classifications and Water Quality Standards Tables

The stream classifications and water quality standards tables in Appendix 32-1 are incorporated herein by reference.

The following is information regarding duration and measured form of standards in Appendix 32-1:

- (a) *E. coli* criteria and resulting standards for individual water segments, are established as indicators of the potential presence of pathogenic organisms. Standards for *E. coli* are expressed as a two-month geometric mean. Site-specific or seasonal standards are also two-month geometric means unless otherwise specified.
- ~~(b) All phosphorus standards are based upon the concentration of total phosphorus. For total phosphorus, stream standards are expressed as an annual median and for lakes standards as a summer (July 1—September 30) average in the mixed layer. For chlorophyll a, stream standards are expressed as a maximum of attached algae and lakes standards as a summer (July 1—September 30) average in the mixed layer. For additional assessment details, see tables at Regulation 31.17(b) and (d).~~
- (eb) The pH standards of 6.5 (or 5.0) and 9.0 are an instantaneous minimum and maximum, respectively to be applied as effluent limits. In determining instream attainment of water quality standards for pH, appropriate averaging periods may be applied, provided that beneficial uses will be fully protected.
- (ec) All mercury standards apply to the total recoverable fraction of all forms, both organic and inorganic, of mercury in water.
- (ed) All ammonia, nitrate, and nitrite standards are based upon the concentration reported as nitrogen.

(6) Discharger-Specific Variances

- (a) Lower Arkansas Segment 1a (COARLA01a):

Discharger-Specific Variance, City of Pueblo James R. Dilorio Water Reclamation Facility (CO0026646): Adopted 6/12/2018.

Selenium (acute) = 19.1 µg/L: narrative; Selenium (chronic) = 14.1 µg/L: narrative;
Sulfate (chronic) = 329 mg/L: narrative. Expiration date: 12/31/2028.

Narrative alternative effluent limit: During the DSV term, Pueblo will be required to spend \$10 million to implement a comprehensive source control, sampling, analysis, and optimization adaptive management program to reduce selenium and sulfate concentrations in the effluent as much as feasible and to ensure that the discharge does not contribute to any lowering of the currently attained ambient water quality. The adaptive management program will include the following elements, in order of priority:

- Lining up to 175,000 ft² in the sewer collection system in Basins 2 and 3.
- Sealing up to 400 manholes in Basins 2 and 3.
- The amount of sewer lining and manhole sealing may be reduced by:
 - Repair of service taps in poor condition;
 - Repair of service lines in poor condition; or
 - Additional effort where epoxy sealing of manholes is insufficient to control I & I.
- A comprehensive long-term sampling and analysis program to identify source control projects and evaluate the effectiveness of implemented controls.
- Investigation of the contribution from sump pumps.
- Pilot testing to determine the feasibility of treatment optimization to reduce selenium, and implementation of feasible treatment optimization measures.

(b) Lower Arkansas Segment 1b (COARLA01b):

- (i) Discharger-Specific Variance, City of La Junta (CO0021261): Adopted 10/11/2016.

Selenium (acute) = TVS: no limit; Selenium (chronic) = TVS: 0.37 lbs/day as a 12-month rolling average. Expiration date: 12/31/2026.

- (ii) Discharger-Specific Variance, City of Las Animas (CO0040690): Adopted 06/11/2018

Selenium (chronic) = TVS narrative. Effective Date: 12/30/2018; Expiration Date: 12/31/2025

Narrative alternative effluent limit: During the DSV term, Las Animas will implement a Pollutant Minimization Plan, which is expected to result in effluent concentrations between 0.8 – 28.4 µg/L. The following measures are required during the term of the variance to reduce selenium concentrations as much as feasible and to ensure the discharge does not contribute to any lowering of ambient in-stream water quality:

- Monitor selenium concentrations in each municipal water well and use the wells with the lowest selenium concentrations to meet water demand to the maximum extent feasible
- Initiate a water conservation program
- Locate and repair sources of water loss in the water distribution system.
- Maintain the ongoing sanitary sewer collection system replacement program to address groundwater infiltration

- Complete a wetland treatment pilot study by 12/31/2025, if compliance with water quality based effluent limits based upon the underlying standards remains infeasible after implementing the above measures.

32.7 – 32.9 RESERVED

32.70 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; NOVEMBER 14, 2022 RULEMAKING; FINAL ACTION _____; EFFECTIVE DATE APRIL 30, 2023

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

BASIS AND PURPOSE

A. Revision of Total Nitrogen and Total Phosphorus Table Value Standards for Lakes and Reservoirs at 31.17

In March 2012, the commission adopted interim numerical nutrient table value standards for chlorophyll *a* to protect the Aquatic Life, Recreation, and Direct Use Water Supply (DUWS) uses and table value standards for total nitrogen and total phosphorus to protect the Aquatic Life and Recreation uses (31.50) in lakes, reservoirs, rivers, and streams. In its July 2016 action letter for the March 2012 rulemaking hearing, EPA recommended revisiting the classification analysis for lakes and reservoirs to account for the variability between lakes (e.g., Cold and Warm lakes), evaluating confounding factors in the stressor-response relationship between nutrients and chlorophyll *a*, and evaluating whether the standards are protective of lakes with a high chlorophyll *a* yield per unit of nutrient.

In this hearing, the commission adopted revised total nitrogen and total phosphorus standards for lakes and reservoirs to address EPA's 2016 recommendations and ensure protective standards are adopted on lakes and reservoirs with Aquatic Life, Recreation, and/or DUWS uses (31.17 Table V). The numeric nutrient standards for total nitrogen and total phosphorus represent growing season (July through September) average concentrations with an allowable exceedance frequency is once in five years, and apply to lakes greater than 25 acres in size and with a residence time of at least 14 days. The commission adopted these standards into Regulation No. 31 and the basin regulations (Regulation Nos. 32-38) in this rulemaking; additional details about the revised total nitrogen and total phosphorus standards for lakes and reservoirs are included in 31.60.

B. Implementation of Nutrients Table Value Standards

The commission revised 32.5(4) to reflect the current status of the phased implementation framework for nutrients standards and remove information regarding implementation that concludes December 31, 2022. These revisions included removing language regarding phased implementation of chlorophyll *a* standards for lakes, reservoirs, rivers, and streams, as these standards now apply to all waterbodies with Aquatic Life, Recreation, and/or DUWS uses in Colorado. The information regarding the specific circumstances where nitrogen and phosphorus standards will apply before December 31, 2027 was clarified and includes additional references to 31.17. Also, to be consistent with past practice and the commission's intent in 31.55, the word "headwaters" was replaced with "waterbodies upstream of certain domestic and non-domestic wastewater treatment facilities". Finally, references to new Tables V (nutrients standards for lakes and reservoirs) and VI (nutrients standards for rivers and streams) in 31.17 were also added.

The commission revised the Table Value Standards table in 32.6(3) to include chlorophyll *a*, total nitrogen, and total phosphorus. Instead of replicating the numerical values for these table value standards, the table references 31.17, as 31.17 contains the numeric standards (in Tables V and VI), implementation information, and additional details regarding the phased implementation framework. As part of this change, the commission revised Footnote 1 to specify that the nitrogen and phosphorus standards are based upon the total concentration; this information was previously contained in 32.6(5)(b), which was deleted. Additionally, the commission adopted a new Footnote 6 that clarifies that, with the exception of the chlorophyll *a* standard to protect the DUWS sub-classification, the chlorophyll *a*, total nitrogen, and total phosphorus standards apply only to lakes and reservoirs larger than 25 acres surface

area. The chlorophyll a standard to protect DUWS lakes and reservoirs applies to lakes and reservoirs of all sizes. This information was previously included in the segment tables in Appendix 32-1, but was moved to Footnote 6 for clarity.

1. Nitrogen and Phosphorus Standards for Lakes, Reservoirs, Rivers, and Streams

a. Lakes and Reservoirs

Adoption of total phosphorus standards was previously limited to specific segments or portions of segments, as outlined in 31.50(VI)(A) (i.e., waterbodies above certain discharge facilities and site-specific situations where numeric standards were needed to protect uses). Prior to this rulemaking hearing, total nitrogen standards had not been adopted on any waterbodies. However, consistent with the phased implementation strategy developed in 2012 (31.50(VI)(A)) and 2017 (31.55), the commission expanded the adoption of the total phosphorus standards to also include all lake and reservoirs with the DUWS sub-classification and waterbodies with a public swim beach (defined as waterbodies with a natural swimming area per C.R.S § 25-5-801, including having a fee-based cordoned off swim area). The commission also adopted total nitrogen standards on the same set of waterbodies (i.e., waterbodies above certain discharge facilities, site-specific situations where numeric standards were needed to protect uses, DUWS, and swim beaches). Consistent with 31.17, the total phosphorus and total nitrogen standards apply only to lakes and reservoirs greater than 25 acres.

The commission previously adopted the DUWS sub-classification and notation in the Appendix 32-1 tables on several waterbodies in previous rulemaking hearings, but public swim beaches were identified in the current rulemaking. However, it was only necessary to specify the presence of a public swim beach in limited cases, because most public swim beaches in Colorado are also either classified as DUWS or located above certain discharge facilities; waterbodies falling into either of those categories are also assigned nitrogen and phosphorus standards. Therefore, the “Public Swim Beach” notation only needed to be applied to waterbodies where the total nitrogen and total phosphorus standards were only being applied due to the presence of a swim beach. Due to the presence of a public swim beach, the commission adopted total nitrogen and total phosphorus standards, “Public Swim Beach” in the Qualifier column, and a note to specify the swim beach reservoir in the Other column on the following segment:

Lower Arkansas River: 10 (COARLA10; Lake Hasty)

b. Rivers and Streams

In rivers and streams, the commission did not adopt total phosphorus standards on any additional river or stream waterbodies or total nitrogen table value standards on any waterbodies, consistent with the phased implementation timeline outlined in 31.17 and 32.5(4).

c. Formatting of Nitrogen and Phosphorus Standards in Appendix 32-1

The commission changed how previously-adopted total phosphorus table value standards were presented in the segment tables in Appendix 32-1. Specifically, the table value standards were previously shown as numeric values, which were replaced with “TVS”. Similarly, any total nitrogen or total phosphorus standards adopted in this rulemaking hearing were adopted into the Appendix 32-1 tables as “TVS”. This approach allows the regulation to point directly to 31.17, which has a complete record of information regarding these table value standards.

2. Chlorophyll a Standards for Lakes, Reservoirs, Rivers, and Streams

The commission made no changes to the chlorophyll a standards to protect Aquatic Life, Recreation, and/or DUWS uses in lakes, reservoirs, rivers, or streams. In addition, the commission made no changes to existing site-specific chlorophyll a standards.

Adoption of chlorophyll a standards was previously limited to specific segments or portions of segments, as outlined in 31.50(VI)(A) (i.e., waterbodies above certain discharge facilities and site-specific situations where numeric standards were needed to protect uses). However, consistent with the phased implementation strategy developed in 2012 (31.50(VI)(A)) and 2017 (31.55), the commission expanded the adoption of chlorophyll a standards to all segments with Aquatic Life, Recreation, and/or DUWS uses.

Specifically, in this rulemaking hearing, the commission adopted the chlorophyll a table value standard of 8 µg/L for all cold water lakes or reservoirs (larger than 25 acres) with Aquatic Life or Recreation E, U, or P uses; 20 µg/L for all warm water lakes or reservoirs (larger than 25 acres) with Aquatic Life or Recreation E, U, or P uses; and 150 mg/m² for all cold or warm water streams with a Recreation E, U, or P use. In the segment tables in Appendix 32-1, these table value standards were adopted as “TVS” and any previously-adopted table value standards shown as numeric values were changed to “TVS”. This approach allows the regulation to point directly to 31.17, which has a complete record of information regarding these table value standards.

In addition, the commission adopted the table value standard of 5 µg/L for all lakes or reservoirs (of any size) with DUWS; in Appendix 32-1, these table value standards are shown as “DUWS”. The phased implementation of the chlorophyll a standards adoption is now complete.

C. Clarifications and Corrections

The following edits were made to Appendix 32-1 to improve clarity and correct errors:

- The Direct Use Water Supply (DUWS) references in segments in Appendix 32-1 were revised to improve clarity and consistency.

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

5 CCR 1002-32

**REGULATION NO. 32
CLASSIFICATIONS AND NUMERIC STANDARDS
FOR
ARKANSAS RIVER BASIN**

**APPENDIX 32-1
Stream Classifications and Water Quality Standards Tables**

Effective ~~09/30/2022~~04/30/2023

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
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 #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

1a. All streams and wetlands within Mount Massive and Collegiate Peaks Wilderness areas.

COARUA01A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

1b. Mainstem of the East Fork of the Arkansas River from its source to a point immediately above the confluence with Birdseye Gulch.

COARUA01B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Aq Life Cold 1	DM		MWAT	acute		chronic
Reviewable	Recreation E	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Water Supply	acute		chronic	Arsenic(T)	---	0.02
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	---	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	210
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

2a. Mainstem of the East Fork of the Arkansas River and the Arkansas River from a point immediately above the confluence with Birdseye Gulch to a point immediately above the confluence with the California Gulch.

COARUA02A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m ²)	---	150 *TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Iron	---	WS
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 32.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 32.5(4).</div> <div>*Uranium(acute) = See 32.5(3) for details.</div> <div>*Uranium(chronic) = See 32.5(3) for details.</div>		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

2b. Mainstem of the Arkansas River from a point immediately above California Gulch to a point immediately above the confluence with Lake Fork.

COARUA02B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable*	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	7.6	
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	SSE*
Other: *Designation: 9/30/00 Base-line does not apply *Cadmium(chronic) = (1.101672-[ln(hardness)*0.041838])*e^(0.7998[ln hardness]-3.1725) *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details. *Zinc(acute) = 0.978*e^(0.8537[ln(hardness)]+2.2178) *Zinc(chronic) = 0.986*e^(0.8537[ln(hardness)]+2.0469)		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m²)	---	TVS	Chromium VI	TVS	TVS
		E. Coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
			acute	chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	---	SSE*
		Phosphorus	---	---	Zinc	SSE*	---
Sulfate	---	---					
Sulfide	---	0.002					

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

2c. Mainstem of the Arkansas River from a point immediately above the confluence with the Lake Fork to a point immediately above the confluence with Lake Creek.						
COARUA02C	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute chronic		
Reviewable*	Aq Life Cold 1	Temperature °C	CS-I CS-I	Arsenic	340 ---	
	Recreation E	acute chronic		Arsenic(T)	--- 0.02	
	Water Supply	D.O. (mg/L)	--- 6.0	Cadmium	TVS SSE*	
		D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---	
Qualifiers:		pH	6.5 - 9.0 ---	Chromium III	--- TVS	
Other:		chlorophyll a (mg/m²)	--- --TVS -	Chromium III(T)	50 ---	
Temporary Modification(s):		E. Coli (per 100 mL)	--- 126	Chromium VI	TVS TVS	
Arsenic(chronic) = hybrid				Copper	TVS TVS	
Expiration Date of 12/31/2024				Iron	--- WS	
		Inorganic (mg/L)		Iron(T)	--- 1000	
		acute chronic		Lead	TVS TVS	
*Designation: 9/30/00 Base-line does not apply		Ammonia	TVS TVS	Lead(T)	50 ---	
*Cadmium(chronic) = (1.101672-[ln(hardness)*0.041838])*e^(0.7998[ln hardness]-3.1725)		Boron	--- 0.75	Manganese	TVS TVS/WS	
*Uranium(acute) = See 32.5(3) for details.		Chloride	--- 250	Mercury(T)	--- 0.01	
*Uranium(chronic) = See 32.5(3) for details.		Chlorine	0.019 0.011	Molybdenum(T)	--- 150	
*Zinc(acute) = 0.978*e^(0.8537[ln(hardness)]+2.2178)		Cyanide	0.005 ---	Nickel	TVS TVS	
*Zinc(chronic) = 0.986*e^(0.8537[ln(hardness)]+2.0469)		Nitrate	10 ---	Nickel(T)	--- 100	
		Nitrite	--- 0.05	Selenium	TVS TVS	
		Phosphorus	--- ---	Silver	TVS TVS(tr)	
		Sulfate	--- WS	Uranium	varies* varies*	
		Sulfide	--- 0.002	Zinc	--- SSE*	
				Zinc	SSE* ---	
3. Mainstem of the Arkansas River from a point immediately above the confluence with the Lake Creek to the Chaffee/Fremont County line.						
COARUA03	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II CS-II	Arsenic	340 ---	
	Recreation E	acute chronic		Arsenic(T)	--- 0.02	
	Water Supply	D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS	
		D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---	
Qualifiers:		pH	6.5 - 9.0 ---	Chromium III	--- TVS	
Other:		chlorophyll a (mg/m²)	--- --TVS -	Chromium III(T)	50 ---	
Temporary Modification(s):		E. Coli (per 100 mL)	--- 126	Chromium VI	TVS TVS	
Arsenic(chronic) = hybrid				Copper	TVS TVS	
Expiration Date of 12/31/2024				Iron	--- WS	
		Inorganic (mg/L)		Iron(T)	--- 1000	
		acute chronic		Lead	TVS TVS	
*Uranium(acute) = See 32.5(3) for details.		Ammonia	TVS TVS	Lead(T)	50 ---	
*Uranium(chronic) = See 32.5(3) for details.		Boron	--- 0.75	Manganese	TVS TVS/WS	
		Chloride	--- 250	Mercury(T)	--- 0.01	
		Chlorine	0.019 0.011	Molybdenum(T)	--- 150	
		Cyanide	0.005 ---	Nickel	TVS TVS	
		Nitrate	10 ---	Nickel(T)	--- 100	
		Nitrite	--- 0.05	Selenium	TVS TVS	
		Phosphorus	--- ---	Silver	TVS TVS(tr)	
		Sulfate	--- WS	Uranium	varies* varies*	
		Sulfide	--- 0.002	Zinc	TVS TVS	

3. Mainstem of the Arkansas River from a point immediately above the confluence with the Lake Creek to the Chaffee/Fremont County line.							
COARUA03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	---TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
*Uranium(acute) = See 32.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 32.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

4a. Mainstem of the Arkansas River from the Chaffee/Fremont County Line to a point immediately above Highway 115 bridge (38.390243, -105.068648), due east of Florence.							
COARUA04A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	1000
*Uranium(acute) = See 32.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 32.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
*Temperature =		Chloride	---	250	Manganese	TVS	TVS/WS
DM=CSII and MWAT=CSII from 11/1-3/31		Chlorine	0.019	0.011	Mercury(T)	---	0.01
DM= 24.8 and MWAT=22.1 from 4/1-10/31		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
4b. Mainstem of the Arkansas River from a point immediately above Highway 115 bridge (38.390243, -105.068648), due east of Florence, to the inlet of Pueblo Reservoir.							
COARUA04B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	TVS	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic		Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 32.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

4b. Mainstem of the Arkansas River from a point immediately above Highway 115 bridge (38.390243, -105.068648), due east of Florence, to the inlet of Pueblo Reservoir.							
COARUA04B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	TVS	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024			acute	chronic	Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 32.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

5a. All tributaries to the Arkansas River, including wetlands, from the source to immediately below the confluence with Brown's Creek, except for specific listings in segments 5b through 12b.

COARUA05A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 32.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 32.5(4).</div> <div>*Uranium(acute) = See 32.5(3) for details.</div> <div>*Uranium(chronic) = See 32.5(3) for details.</div>		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

5b. Mainstem of Trout Creek from its source to Trout Creek Reservoir, including all tributaries and wetlands.

COARUA05B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 32.5(3) for details.		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

6. Mainstem of California Gulch, including all tributaries, from the source to the confluence with the Arkansas River. Mainstem of St. Kevin's Gulch from the source to the confluence with Tennessee Creek.					
COARUA06	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Recreation N			Arsenic	---
Qualifiers:		acute	chronic	Cadmium	---
Other:		D.O. (mg/L)	---	Chromium III	---
		pH	---	Chromium VI	---
		chlorophyll a (mg/m ²)	---	Copper	---
		E. Coli (per 100 mL)	---	Iron	---
		Inorganic (mg/L)		Lead	---
		acute	chronic	Manganese	---
		Ammonia	---	Mercury(T)	---
		Boron	---	Molybdenum(T)	---
		Chloride	---	Nickel	---
		Chlorine	---	Selenium	---
		Cyanide	---	Silver	---
		Nitrate	---	Uranium	varies*
		Nitrite	---	Zinc	---
		Phosphorus	---		
		Sulfate	---		
		Sulfide	---		
7. Mainstem of Evans Gulch from the source to the confluence with the Arkansas River.					
COARUA07	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---
	Water Supply	D.O. (mg/L)	---	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	Chromium III	---
		chlorophyll a (mg/m ²)	---	Chromium III(T)	50
		E. Coli (per 100 mL)	---	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS
		acute	chronic	Iron	---
		Ammonia	TVS	Iron(T)	---
		Boron	---	Lead	TVS
		Chloride	---	Lead(T)	50
		Chlorine	0.019	Manganese	TVS
		Cyanide	0.005	Mercury(T)	---
		Nitrate	10	Molybdenum(T)	---
		Nitrite	---	Nickel	TVS
		Phosphorus	---	Nickel(T)	---
		Sulfate	---	Selenium	TVS
		Sulfide	---	Silver	TVS
			0.002	Uranium	varies*
				Zinc	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

8a. Mainstem of Iowa Gulch from the source to the historic upper ASARCO water supply intake at 39.224327, -106.223432.							
COARUA08A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02-10	A
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	---	SSE*
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	SSE*	---
Other: *Cadmium(acute) = (1.136672-[ln(hardness)*0.041838])*e^(0.9789*ln(hardness)-3.5146) *Cadmium(chronic) = (1.101672-[ln(hardness)*0.041838])*e^(0.7977*ln(hardness)-3.5338) *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details. *Zinc(acute) = 0.978*e^(0.8571[ln(hardness)]+1.3673) *Zinc(chronic) = 0.986*e^(0.8571[ln(hardness)]+1.1711)		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
		chlorophyll a (mg/m²)	---	450TVS	Chromium III	---	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
					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	---	0.44TVS	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	---	SSE*
					Zinc	SSE*	---

8b. Mainstem of Iowa Gulch from a point immediately below the historic upper ASARCO water supply intake at 39.224327, -106.223432 to a point immediately below the headgate of the Paddock #1 Ditch (Iowa Ditch) at 39.215532, -106.286037.							
COARUA08B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	100	
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	---	SSE*
Other: *Cadmium(acute) = (1.136672-[ln(hardness)*0.041838])*e^(0.9789*ln(hardness)-3.5146) *Cadmium(chronic) = (1.101672-[ln(hardness)*0.041838])*e^(0.7977*ln(hardness)-3.5338) *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details. *Zinc(acute) = 0.978*e^(0.8571[ln(hardness)]+1.3673) *Zinc(chronic) = 0.986*e^(0.8571[ln(hardness)]+1.1711)		D.O. (spawning)	---	7.0	Cadmium	SSE*	---
		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	---	100
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron(T)	---	1000
		acute	chronic	Lead	TVS	TVS	
		Ammonia	TVS	TVS	Manganese	TVS	TVS
		Boron	---	0.75	Mercury(T)	---	0.01
		Chloride	---	---	Molybdenum(T)	---	150
		Chlorine	0.019	0.011	Nickel	TVS	TVS
		Cyanide	---	---	Selenium	TVS	TVS
		Nitrate	100	---	Silver	TVS	TVS(tr)
		Nitrite	---	0.05	Uranium	varies*	varies*
		Phosphorus	---	0.44TVS	Zinc	---	SSE*
		Sulfate	---	---	Zinc	SSE*	---
		Sulfide	---	0.002			

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

9. Mainstem of Iowa Gulch from a point immediately below the headgate of the Paddock #1 Ditch (Iowa Ditch) at 39.215532, -106.286037 to the confluence with the Arkansas River.							
COARUA09	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	---	SSE*
Other:		D.O. (spawning)	---	7.0	Cadmium	SSE*	---
*Cadmium(acute) = (1.136672-[ln(hardness)*0.041838]*e^(0.9789*ln(hardness)-3.5146)) *Cadmium(chronic) = (1.101672-[ln(hardness)*0.041838])*e^(0.7977*ln(hardness)-3.5338) *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details. *Zinc(acute) = 0.978*e^(0.8571[ln(hardness)]+1.3673) *Zinc(chronic) = 0.986*e^(0.8571[ln(hardness)]+1.1711)		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	---	100
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron(T)	---	1000
		acute	chronic		Lead	TVS	TVS
		Ammonia	TVS	TVS	Manganese	TVS	TVS
		Boron	---	0.75	Mercury(T)	---	0.01
		Chloride	---	---	Molybdenum(T)	---	150
		Chlorine	0.019	0.011	Nickel	TVS	TVS
		Cyanide	0.005	---	Selenium	TVS	TVS
		Nitrate	100	---	Silver	TVS	TVS(tr)
		Nitrite	---	0.05	Uranium	varies*	varies*
		Phosphorus	---	0.44TVS	Zinc	---	SSE*
		Sulfate	---	---	Zinc	SSE*	---
		Sulfide	---	0.002			
	10. Mainstem of Lake Creek, including all tributaries and wetlands, from the source to the confluence with the Arkansas River, except for the specific listing in segment 11.						
COARUA10	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	14.6	10.6
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

10. Mainstem of Lake Creek, including all tributaries and wetlands, from the source to the confluence with the Arkansas River, except for the specific listing in segment 11.							
COARUA10	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	14.6	10.6
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

11. Mainstem of South Fork of Lake Creek, including all tributaries and wetlands, from the source to the confluence with Lake Creek.							
COARUA11	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	750	---
	Recreation E	acute	chronic	Arsenic	340	---	
Qualifiers:		D.O. (mg/L)	---	6.0	Arsenic(T)	---	7.6
Other: *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
		pH	5.0-9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m²)	---	150TVS	Chromium III(T)	---	100
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron(T)	---	1000
					Lead	TVS	TVS
					Manganese	TVS	TVS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS
		12a. Mainstem of Chalk Creek from the source to the confluence with the Arkansas River.					
COARUA12A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 32.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 32.5(4). *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (mg/m²)	---	150*TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
					Iron(T)	---	1000
					Lead	TVS	TVS
					Lead(T)	50	---
					Manganese	TVS	TVS/WS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

12a. Mainstem of Chalk Creek from the source to the confluence with the Arkansas River.							
COARUA12A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	450*TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 32.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 32.5(4). *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

12b. Mainstem of Cottonwood Creek (Chaffee County), from the source to the confluence with the Arkansas River; South Fork of the Arkansas, including all tributaries and wetlands, from the National Forest boundary to the confluence with the Arkansas River.

COARUA12B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 *TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 32.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 32.5(4).</div> <div>*Uranium(acute) = See 32.5(3) for details.</div> <div>*Uranium(chronic) = See 32.5(3) for details.</div>		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 *TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

13. All tributaries to the Arkansas River, including wetlands, which are on National Forest lands, from the confluence with Brown's Creek to the inlet to Pueblo Reservoir, except for specific listings in segments 12b, 14a, 14c and 15-27.

COARUA13	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 *TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 32.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 32.5(4).</div> <div>*Uranium(acute) = See 32.5(3) for details.</div> <div>*Uranium(chronic) = See 32.5(3) for details.</div>		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 *TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

14a. Mainstem of Big Red Creek, Little Red Creek, and Hardscrabble Creek from their sources to their confluence with the Arkansas River.						
COARUA14A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 2 Recreation E	Temperature °C	WS-II WS-II		Arsenic	340 ---
Qualifiers:		acute	chronic		Arsenic(T)	---
Fish Ingestion Standards Apply		D.O. (mg/L)	---	6.0	Cadmium	TVS TVS
Other:		D.O. (spawning)	---	7.0	Chromium III	TVS TVS
*Uranium(acute) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Chromium III(T)	---
*Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (mg/m ²)	---	150 TVS	Chromium VI	TVS TVS
		E. Coli (per 100 mL)	---	126	Copper	TVS TVS
		Inorganic (mg/L)			Iron(T)	---
		acute	chronic		Lead	TVS TVS
		Ammonia	TVS	TVS	Manganese	TVS TVS
		Boron	---	0.75	Mercury(T)	---
		Chloride	---	---	Molybdenum(T)	---
		Chlorine	0.019	0.011	Nickel	TVS TVS
		Cyanide	0.005	---	Selenium	TVS TVS
		Nitrate	100	---	Silver	TVS TVS
		Nitrite	---	0.5	Uranium	varies* varies*
		Phosphorus	---	0.17 TVS	Zinc	TVS TVS
		Sulfate	---	---		
		Sulfide	---	0.002		

14b. All tributaries to the Arkansas River, including wetlands, which are not on National Forest lands, from the confluence with Brown's Creek to the Chaffee/Fremont County line, except for the specific listing in segment 12b.

COARUA14B	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 2 Recreation E Water Supply	Temperature °C	CS-II CS-II		Arsenic	340 ---
Qualifiers:		acute	chronic		Arsenic(T)	---
Other:		D.O. (mg/L)	---	6.0	Cadmium	TVS TVS
Temporary Modification(s):		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---
Arsenic(chronic) = hybrid		pH	6.5 - 9.0	---	Chromium III	---
Expiration Date of 12/31/2024		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50 ---
*Uranium(acute) = See 32.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS
*Uranium(chronic) = See 32.5(3) for details.		Inorganic (mg/L)			Copper	TVS TVS
		acute	chronic		Iron	---
		Ammonia	TVS	TVS	Iron(T)	---
		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)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS TVS
		Phosphorus	---	0.14 TVS	Nickel(T)	---
		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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

14c. Mainstems of North and South Hardscrabble Creeks, including all tributaries and wetlands, from their sources to their confluences.							
COARUA14C		Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*		Arsenic	340
	Recreation E					Arsenic(T)	---
	Water Supply					Cadmium	TVS
Qualifiers:		D.O. (mg/L)	---	6.0		Cadmium(T)	TVS
Other: *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details. *Temperature = DM=CSI and MWAT=CSI from 11/1-5/31 DM= 22.1 and MWAT=17 from 6/1-10/31		D.O. (spawning)	---	7.0		Chromium III	---
		pH	6.5 - 9.0	---		Chromium III(T)	50
		chlorophyll a (mg/m²)	---	150TVS		Chromium VI	TVS
		E. Coli (per 100 mL)	---	126		Copper	TVS
		Inorganic (mg/L)				Iron	---
			acute	chronic		Iron(T)	---
		Ammonia	TVS	TVS		Lead	TVS
		Boron	---	0.75		Lead(T)	50
		Chloride	---	250		Manganese	TVS
		Chlorine	0.019	0.011		Mercury(T)	---
		Cyanide	0.005	---		Molybdenum(T)	---
		Nitrate	10	---		Nickel	TVS
		Nitrite	---	0.05		Nickel(T)	---
		Phosphorus	---	0.44TVS		Selenium	TVS
		Sulfate	---	WS		Silver	TVS
		Sulfide	---	0.002		Uranium	varies*
						Zinc	TVS
14d. All tributaries to the Arkansas River, including wetlands, which are not on National Forest lands, from immediately above the confluence of 6-mile Creek (38.405677, -105.122321) to the inlet to Pueblo Reservoir, except for specific listings in segments 14a, 14c, 14e, 14f, and 15-27.							
COARUA14D		Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II		Arsenic(T)	---
	Recreation E					Beryllium(T)	---
						Cadmium(T)	---
Qualifiers:		D.O. (mg/L)	---	6.0		Chromium III(T)	---
Other: *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 32.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 32.5(4). *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		D.O. (spawning)	---	7.0		Chromium VI(T)	---
		pH	6.5 - 9.0	---		Copper(T)	---
		chlorophyll a (mg/m²)	---	150*TVS		Iron	---
		E. Coli (per 100 mL)	---	126		Lead(T)	---
		Inorganic (mg/L)				Manganese	---
			acute	chronic		Mercury(T)	---
		Ammonia	---	---		Molybdenum(T)	---
		Boron	---	0.75		Nickel(T)	---
		Chloride	---	---		Selenium(T)	---
		Chlorine	---	---		Silver	---
		Cyanide	0.2	---		Uranium	varies*
		Nitrate	100	---		Zinc(T)	---
		Nitrite	10	---			2000
		Phosphorus	---	0.44TVS*			
		Sulfate	---	---			
		Sulfide	---	---			

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

14e. All tributaries to the Arkansas River, including wetlands, which are not on National Forest lands from the Chaffee/Fremont County line to immediately below the confluence with Chandler Creek (38.407024,-105.137940). Newlin Creek (except for listings in segment 15b), Mineral Creek, Adobe Creek, and Oak Creek, including all tributaries and wetlands which are not on National Forest Service Land.

COARUA14E	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other: *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 32.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 32.5(4). *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m²)	---	150*TVS	Chromium VI	TVS	TVS
		E. Coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
					Manganese	TVS	TVS
		Ammonia	---	---	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	TVS	TVS
		Phosphorus	---	0.44TVS*			
		Sulfate	---	---			
		Sulfide	---	0.002			

14f. Turkey Creek including all tributaries and wetlands from its source to immediately below the confluence with Little Turkey Creek at 38.594727, -104.851458.

COARUA14F	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic(T)	---	7.6
	Recreation E	acute		chronic	Beryllium(T)	---	100
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium(T)	---	10
Other: *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 32.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 32.5(4). *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		D.O. (spawning)	---	7.0	Chromium III(T)	---	100
		pH	6.5 - 9.0	---	Chromium VI(T)	---	100
		chlorophyll a (mg/m²)	---	150*TVS	Copper(T)	---	200
		E. Coli (per 100 mL)	---	126	Iron	---	---
					Lead(T)	---	100
		Inorganic (mg/L)			Manganese	---	---
			acute	chronic	Mercury(T)	---	---
		Ammonia	---	---	Molybdenum(T)	---	150
		Boron	---	0.75	Nickel(T)	---	200
		Chloride	---	---	Selenium(T)	---	20
		Chlorine	---	---	Silver	---	---
		Cyanide	0.2	---	Uranium	varies*	varies*
		Nitrate	100	---	Zinc(T)	---	2000
		Nitrite	10	---			
		Phosphorus	---	0.44TVS*			
		Sulfate	---	---			
		Sulfide	---	---			

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

15a. Mainstem of Badger Creek from the source to the confluence with the Arkansas, including all tributaries and wetlands. Mainstem of Texas Creek from the forest service boundary to the confluence with the Arkansas River, including all tributaries and wetlands which are not on forest service land.

COARUA15A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 32.5(3) for details.		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

15b. Mainstem of Grape Creek, including all tributaries and wetlands, from the source to the outlet of De Weese Reservoir, except for specific listings in segment 25. Mainstems of Hayden, Hamilton, Stout, and Big Cottonwood Creeks, including all tributaries and wetlands, from their sources to their confluences with the Arkansas River. Tributaries and wetlands to Texas Creek which are on Forest Service Land. Mainstem of Newlin Creek from the National Forest boundary to County Road 92 (38.300765, -105.140927).

COARUA15B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

16a. Mainstem of Middle Tallahassee Creek, including all tributaries and wetlands, from the source to the intersection with Road 23.						
COARUA16A	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
*Uranium(acute) = See 32.5(3) for details.		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	50
*Uranium(chronic) = See 32.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Phosphorus	---	0.44TVS	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
					Uranium	varies*
					Zinc	TVS
						TVS
16b. Mainstem of North Tallahassee Creek, South Tallahassee Creek, Middle Tallahassee Creek, and Tallahassee Creek from their sources to a point immediately below their confluence with South Tallahassee Creek, except for the specific listing in segment 16a.						
COARUA16B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
*Uranium(acute) = See 32.5(3) for details.		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	50
*Uranium(chronic) = See 32.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Phosphorus	---	0.44TVS	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
					Uranium	varies*
					Zinc	TVS
						TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

16c. Mainstem of Tallahassee Creek from a point immediately below the confluence with South Tallahassee Creek to the confluence with the Arkansas River.							
COARUA16C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 32.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

17a. Mainstem of Cottonwood Creek (Fremont County), including all tributaries and wetlands, from the source to a point immediately below the confluence with North Waugh Creek.							
COARUA17A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 32.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

17b. Mainstem of Cottonwood Creek (Fremont county), including all tributaries and wetlands, from a point immediately below the confluence with North Waugh Creek to the intersection with F6 Road.

COARUA17B	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 2 Recreation E	Temperature °C	CS-II CS-II	Arsenic	340 ---
Qualifiers:	*Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.	acute	chronic	Arsenic(T)	--- 100
		D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS
		D.O. (spawning)	--- 7.0	Chromium III	TVS TVS
		pH	6.5 - 9.0 ---	Chromium III(T)	--- 100
		chlorophyll a (mg/m ²)	--- 150 TVS	Chromium VI	TVS TVS
		E. Coli (per 100 mL)	--- 126	Copper	TVS TVS
		Inorganic (mg/L)		Iron(T)	--- 1000
		acute	chronic	Lead	TVS TVS
		Ammonia	TVS TVS	Manganese	TVS TVS
		Boron	--- 0.75	Mercury(T)	--- 0.01
		Chloride	--- ---	Molybdenum(T)	--- 150
		Chlorine	0.019 0.011	Nickel	TVS TVS
		Cyanide	0.005 ---	Selenium	TVS TVS
		Nitrate	100 ---	Silver	TVS TVS
		Nitrite	--- 0.05	Uranium	varies* varies*
		Phosphorus	--- 0.44 TVS	Zinc	TVS TVS
		Sulfate	--- ---		
		Sulfide	--- 0.002		

17c. Mainstem of Cottonwood Creek from F6 Road to the confluence with Currant Creek.

COARUA17C	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
		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 TVS	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	--- 0.44 TVS	Nickel(T)	--- 100
		Sulfate	--- WS	Selenium	TVS TVS
		Sulfide	--- 0.002	Silver	TVS TVS(tr)
				Uranium	varies varies
				Zinc	--- TVS

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

18. Mainstem of Currant Creek (Park County), including all tributaries and wetlands, from the source to the confluence with Tallahassee Creek, except for the specific listings in 17a, 17b, and 17c.

COARUA18	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 32.5(3) for details.		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

19. Mainstem of Fourmile Creek, including all tributaries and wetlands, from the source to immediately below the confluence with High Creek.

COARUA19	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 32.5(3) for details.		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

20a. Mainstem of Fourmile Creek, including all tributaries and wetlands, from immediately below the confluence with High Creek to a point immediately above the confluence with Long Gulch, except for the specific listing to segment 23.							
COARUA20A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other: *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 32.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 32.5(4). *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details. *Temperature = DM=14.2 and MWAT=9.7 from 11/1-2/29 DM= 27.1 and MWAT=21 from 3/1-10/31		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m ²)	---	150 *TVS	Chromium VI	TVS	TVS
		E. Coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
			acute	chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	TVS	TVS
		Phosphorus	---	0.44 *TVS*			
		Sulfate	---	---			
		Sulfide	---	0.002			
20b. Mainstem of Fourmile Creek, including all tributaries and wetlands, from the confluence with Long Gulch to the confluence with the Arkansas River.							
COARUA20B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 32.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 32.5(4). *Sulfate(chronic) = Dissolved standards applicable at the point of withdraw. *Manganese(chronic) = Dissolved standards applicable at the point of withdraw. *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details. *Temperature = DM=13 and MWAT=9.4 from 11/1-2/29 DM= 28.1 and MWAT=22 from 3/1-10/31		chlorophyll a (mg/m ²)	---	150 *TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS*
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 *TVS*	Selenium	TVS	TVS
		Sulfate	---	WS*	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

21a. Mainstem of Cripple Creek from the source to a point 1.5 miles upstream of the confluence with Fourmile Creek.

COARUA21A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m ²)	---	150*TVS	Chromium VI	TVS	TVS
		E. Coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
		acute	chronic		Manganese	TVS	TVS
		Ammonia	TVS(sa)	TVS(ela)	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	TVS	TVS
		Phosphorus	---	0.14TVS*			
		Sulfate	---	---			
	Sulfide	---	0.002				

21b. Mainstem of Cripple Creek from a point 1.5 miles upstream to the confluence with Fourmile Creek.

COARUA21B	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute		chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic		Arsenic(T)	---	100	
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Other: *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS	
		pH	6.5 - 9.0	---	Chromium III(T)	---	100	
		chlorophyll a (mg/m²)	---	--TVS	Chromium VI	TVS	TVS	
		E. Coli (per 100 mL)	---	126	Copper	TVS	TVS	
					Iron(T)	---	1000	
		Inorganic (mg/L)			Lead	TVS	TVS	
		acute		chronic	Manganese	TVS	TVS	
		Ammonia	TVS(sp)	TVS(elp)	Mercury(T)	---	0.01	
		Boron	---	0.75	Molybdenum(T)	---	150	
		Chloride	---	---	Nickel	TVS	TVS	
		Chlorine	0.019	0.011	Selenium	TVS	TVS	
		Cyanide	0.005	---	Silver	TVS	TVS	
		Nitrate	100	---	Uranium	varies*	varies*	
		Nitrite	---	0.05	Zinc	TVS	TVS	
		Phosphorus	---	---				
		Sulfate	---	---				
Sulfide	---	0.002						

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

22a. Mainstem of Arequa Gulch from the source to the confluence with Cripple Creek.

COARUA22A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
UP	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Aluminum	11000	11000
	Recreation N	acute	chronic		Arsenic	340	---
Qualifiers:		D.O. (mg/L)	---	6.0	Arsenic(T)	---	100
Other:		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
		pH	6.0 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m ²)	---	---	Chromium III(T)	---	100
		E. Coli (per 100 mL)	---	630	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron(T)	---	1000
		acute	chronic		Lead	TVS	TVS
		Ammonia	TVS	TVS	Manganese	5903	3674
		Boron	---	0.75	Mercury(T)	---	0.01
		Chloride	---	---	Molybdenum(T)	---	150
		Chlorine	0.019	0.011	Nickel	TVS	TVS
		Cyanide	0.005	---	Selenium	TVS	TVS
		Nitrate	100	---	Silver	TVS	TVS
		Nitrite	---	0.05	Uranium	varies*	varies*
		Phosphorus	---	0.14TVS	Zinc	3500	600
		Sulfate	---	---			
		Sulfide	---	0.002			

22b. Squaw Gulch from the source to the confluence with Cripple Creek.

COARUA22B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
UP	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic(T)	---	200
	Recreation N	acute	chronic		Cadmium(T)	---	50
Qualifiers:		D.O. (mg/L)	---	6.0	Chromium III(T)	---	1000
Other:		D.O. (spawning)	---	7.0	Chromium VI(T)	---	1000
		pH	6.5 - 9.0	---	Copper(T)	---	500
		chlorophyll a (mg/m ²)	---	---	Iron	---	---
		E. Coli (per 100 mL)	---	630	Lead(T)	---	100
					Manganese	---	---
		Inorganic (mg/L)			Mercury(T)	---	10
		acute	chronic		Molybdenum(T)	---	150
		Ammonia	---	---	Nickel	---	---
		Boron	---	5.0	Selenium(T)	---	50
		Chloride	---	---	Silver	---	---
		Chlorine	---	---	Uranium	varies*	varies*
		Cyanide	0.2	---	Zinc(T)	---	25000
		Nitrate	100	---			
		Nitrite	10	---			
		Phosphorus	---	0.14TVS			
		Sulfate	---	---			
		Sulfide	---	---			

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

23. Mainstem of Wilson Creek (Teller County), including all tributaries and wetlands, from the source to the confluence with Fourmile Creek.						
COARUA23	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340
	Recreation E	acute	chronic		Arsenic(T)	100
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS
Other:		pH	6.5 - 9.0	---	Chromium III	TVS
		chlorophyll a (mg/m ²)	---	150*TVS	Chromium III(T)	100
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)			Copper	TVS
		acute	chronic		Iron(T)	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Manganese	TVS
		Chloride	---	---	Mercury(T)	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	150
		Cyanide	0.005	---	Nickel	TVS
		Nitrate	100	---	Selenium	TVS
		Nitrite	---	0.05	Silver	TVS
		Phosphorus	---	0.14TVS*	Uranium	varies*
		Sulfate	---	---	Zinc	TVS
		Sulfide	---	0.002		

24. Mainstem of East and West Beaver Creeks, including all tributaries and wetlands, from the source to the confluence with Beaver Creek; mainstem of Beaver Creek from the source to the point of diversion to Brush Hollow Reservoir.						
COARUA24	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340
	Recreation E	acute	chronic		Arsenic(T)	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	---
Other:		pH	6.5 - 9.0	---	Chromium III	TVS
		chlorophyll a (mg/m ²)	---	150TVS	Chromium III(T)	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)			Copper	TVS
		acute	chronic		Iron	WS
		Ammonia	TVS	TVS	Iron(T)	1000
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	---
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	TVS/WS
		Nitrate	10	---	Molybdenum(T)	0.01
		Nitrite	---	0.05	Nickel	---
		Phosphorus	---	0.14TVS	Nickel(T)	100
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
					Uranium	varies*
					Zinc	varies*
						TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

25. Mainstem of Cottonwood Creek (Custer County) from the headwaters to 37.940597, -105.411656.						
COARUA25	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (mg/m ²)	---	150TVS	Chromium III(T)	50
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
					Copper	TVS
		Inorganic (mg/L)			Iron	---
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	0.14TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

*Uranium(acute) = See 32.5(3) for details.
 *Uranium(chronic) = See 32.5(3) for details.

26. Mainstem of Beaver Creek from the point of diversion for Brush Hollow Reservoir to the confluence with the Arkansas River.						
COARUA26	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS
Other:		pH	6.5 - 9.0	---	Chromium III	TVS
		chlorophyll a (mg/m ²)	---	150TVS	Chromium III(T)	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)			Copper	TVS
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Manganese	TVS
		Chloride	---	---	Mercury(T)	---
		Chlorine	0.019	0.011	Molybdenum(T)	---
		Cyanide	0.005	---	Nickel	TVS
		Nitrate	100	---	Selenium	TVS
		Nitrite	---	0.5	Silver	TVS
		Phosphorus	---	0.17TVS	Uranium	varies*
		Sulfate	---	---	Zinc	TVS
		Sulfide	---	0.002		

*Uranium(acute) = See 32.5(3) for details.
 *Uranium(chronic) = See 32.5(3) for details.

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

27. Mainstem of Eightmile Creek, including all tributaries and wetlands, from the source to the mouth of Phantom Canyon (38.495270,-105.110024).								
COARUA27	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---	
	Recreation E		acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
			Inorganic (mg/L)		Iron	---	WS	
			acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	
		28. All lakes and reservoirs within the Mount Massive and Collegiate Peaks Wilderness areas.						
		COARUA28	Classifications	Physical and Biological			Metals (ug/L)	
		Designation	Agriculture		DM	MWAT	acute	chronic
OW	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---	
	Recreation E		acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (ug/L)	---	8 *TVS	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
			Inorganic (mg/L)		Iron	---	WS	
			acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Nitrogen	---	TVS	Selenium	TVS	TVS	
		Phosphorus	---	0.025 *TVS	Silver	TVS	TVS(tr)	
		Sulfate	---	WS	Uranium	varies*	varies*	
		Sulfide	---	0.002	Zinc	TVS	TVS	

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

29. All lakes and reservoirs tributary to the Arkansas River from the source to immediately below the confluence with Brown's Creek, except for specific listings in segments 28 and 30.							
COARUA29	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
<div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 32.5(3) for details.</div> <div>*Uranium(chronic) = See 32.5(3) for details.</div>		chlorophyll a (ug/L)	---	8*TVS	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
		Nitrogen	---	TVS	Nickel(T)	---	100
		Phosphorus	---	0.025*TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
			Zinc	TVS	TVS		
30. Turquoise Reservoir, Clear Creek Reservoir, Twin Lakes and Mt. Elbert Forebay.							
COARUA30	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
	DUWS*	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (ug/L)	---	DUWS8*	Chromium III(T)	50	---
<div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Classification: DUWS applies to Twin Lakes and Elbert Forebay.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 32.5(3) for details.</div> <div>*Uranium(chronic) = See 32.5(3) for details.</div> <div>*Temperature =</div> <div>DM and MWAT=CLL from 1/1-3/31</div> <div>Turquoise Reservoir, Twin Lakes (Upper and Lower), Mt. Elbert Forebay</div> <div>DM=22.4 and MWAT=16.6 from 4/1-12/31</div> <div>All others</div> <div>DM and MWAT=CLL from 4/1-12/31</div>		chlorophyll a (ug/L)	---	TVS	Chromium VI	TVS	TVS
		E. Coli (per 100 mL)	---	126	Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

31. All lakes and reservoirs tributary to the Arkansas River which are on National Forest lands, from the confluence with Brown's Creek to the inlet to Pueblo Reservoir, except for specific listings in segments 32 and 34-40.

COARUA31	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	Chromium III	---	TVS
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (ug/L)	---	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	Chromium VI	TVS	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	Iron(T)	---	1000
		Boron	---	Lead	TVS	TVS
		Chloride	---	Lead(T)	50	---
		Chlorine	0.019	Manganese	TVS	TVS/WS
		Cyanide	0.005	Mercury(T)	---	0.01
		Nitrate	10	Molybdenum(T)	---	150
		Nitrite	---	Nickel	TVS	TVS
		<u>Nitrogen</u>	---	Nickel(T)	---	100
		Phosphorus	---	Selenium	TVS	TVS
		Sulfate	---	Silver	TVS	TVS(tr)
		Sulfide	---	Uranium	varies*	varies*
				Zinc	TVS	TVS

32. All lakes and reservoirs tributary to the South Fork of the Arkansas from the source to the confluence with the Arkansas River.

COARUA32	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	Chromium III	---	TVS
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (ug/L)	---	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	Chromium VI	TVS	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	Iron(T)	---	1000
		Boron	---	Lead	TVS	TVS
		Chloride	---	Lead(T)	50	---
		Chlorine	0.019	Manganese	TVS	TVS/WS
		Cyanide	0.005	Mercury(T)	---	0.01
		Nitrate	10	Molybdenum(T)	---	150
		Nitrite	---	Nickel	TVS	TVS
		<u>Nitrogen</u>	---	Nickel(T)	---	100
		Phosphorus	---	Selenium	TVS	TVS
		Sulfate	---	Silver	TVS	TVS(tr)
		Sulfide	---	Uranium	varies*	varies*
				Zinc	TVS	TVS

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

33. All lakes and reservoirs tributary to the Arkansas River which are not on National Forest lands, from the confluence with Brown's Creek to the inlet to Pueblo Reservoir, except for specific listings in segments 32 and 34-40.

COARUA33	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 2	Temperature °C	CL,CLL	CL,CLL	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
Sulfide	---	0.002	Zinc	TVS	TVS		

34. All lakes and reservoirs tributary to the mainstems of Texas, Badger, Hayden, Hamilton, Stout, and Big Cottonwood Creeks from their sources to their confluences with the Arkansas River. All lakes and reservoirs tributary to the mainstem of Grape Creek from the source to the outlet of DeWeese Reservoir, except for the specific listing in segment 35.

COARUA34	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
			D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other: *Chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		<u>Nitrogen</u>	---	<u>TVS</u>	Selenium	TVS	TVS
		Phosphorus	---	<u>0.025*TVS</u>	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

35. DeWeese Reservoir.						
COARUA35	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340
	Recreation E		acute	chronic	Arsenic(T)	---
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details. *Temperature = DM=CLL and MWAT=CLL from 1/1-3/31 DM= CLL and MWAT=21.3 from 4/1-12/31		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
					Copper	TVS
		Inorganic (mg/L)			Iron	---
			acute	chronic	Iron(T)	---
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Nitrogen	---	TVS	Selenium	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS
Sulfate	---	WS	Uranium	varies*		
Sulfide	---	0.002	Zinc	TVS		
36. All lakes and reservoirs tributary to the mainstem of Currant Creek (Park County) from the source to the confluence with Tallahassee Creek, except lakes and reservoirs tributary to Cottonwood Creek (Fremont County) from a point immediately below the confluence with North Waugh Creek to the intersection with F6 Road. All lakes and reservoirs tributary to the mainstem of Middle Tallahassee Creek from the source to the intersection with Road 23.						
COARUA36	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340
	Recreation E		acute	chronic	Arsenic(T)	---
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
					Copper	TVS
		Inorganic (mg/L)			Iron	---
			acute	chronic	Iron(T)	---
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Nitrogen	---	TVS	Selenium	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS
Sulfate	---	WS	Uranium	varies*		
Sulfide	---	0.002	Zinc	TVS		

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

37. All lakes and reservoirs tributary to the mainstem of Fourmile Creek from the source to the confluence with the Arkansas River. This segment includes Wrights Reservoir.						
COARUA37	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CL,CLL CL,CLL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
	DUWS*	D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---
Other:		chlorophyll a (ug/L)	---	8*DUWS	Chromium III(T)	50
Temporary Modification(s):		chlorophyll a (ug/L)	---	TVS	Chromium VI	TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Copper	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)		Iron	---	WS
		acute	chronic	Iron(T)	---	1000
*chlorophyll-a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		Ammonia	TVS	TVS	Lead	TVS
*Classification: DUWS applies to Ott Reservoir.		Boron	---	0.75	Lead(T)	50
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		Chloride	---	250	Manganese	TVS
*Uranium(acute) = See 32.5(3) for details.		Chlorine	0.019	0.011	Mercury(T)	---
*Uranium(chronic) = See 32.5(3) for details.		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Nitrogen	---	TVS	Selenium	TVS
		Phosphorus	---	0-025*TVS	Silver	TVS
		Sulfate	---	WS	Uranium	varies*
		Sulfide	---	0.002	Zinc	TVS
38. All lakes and reservoirs tributary to the mainstem of East and West Beaver Creeks from the source to the confluence with Beaver Creek. This segment includes Skagway and Bison Reservoirs.						
COARUA38	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CL,CLL CL,CLL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
	DUWS*	D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---
Other:		chlorophyll a (ug/L)	---	8*DUWS	Chromium III(T)	50
*chlorophyll-a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		chlorophyll a (ug/L)	---	TVS	Chromium VI	TVS
*Classification: DUWS applies to Bison Reservoir = DUWS		E. Coli (per 100 mL)	---	126	Copper	TVS
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		Inorganic (mg/L)		Iron	---	WS
*Uranium(acute) = See 32.5(3) for details.		acute	chronic	Iron(T)	---	1000
*Uranium(chronic) = See 32.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Nitrogen	---	TVS	Selenium	TVS
		Phosphorus	---	0-025*TVS	Silver	TVS
		Sulfate	---	WS	Uranium	varies*
		Sulfide	---	0.002	Zinc	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

39. All lakes and reservoirs tributary to the mainstem of Eightmile Creek from the source to the mouth of Phantom Canyon (38.495270,-105.110024).							
COARUA39	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS
40. Brush Hollow Reservoir.							
COARUA40	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (ug/L)	---	20*TVS	Chromium III	---	TVS
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Nitrogen	---	TVS	Nickel	TVS	TVS
		Phosphorus	---	0.083*TVS	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

40. Brush Hollow Reservoir.							
COARUA40	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<div>Other:</div> <div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 32.5(3) for details.</div> <div>*Uranium(chronic) = See 32.5(3) for details.</div>		chlorophyll a (ug/L)	---	20*TVS	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	---	0.5	Molybdenum(T)	---	150
		<u>Nitrogen</u>	---	<u>TVS</u>	Nickel	TVS	TVS
		Phosphorus	---	0.083*TVS	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS
					Uranium	varies*	varies*
			Zinc	TVS	TVS		

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

41. Teller Reservoir								
COARUA41	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT					
Reviewable	Aq Life Cold 1	Temperature °C	CLL	CLL	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)			---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
<div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 32.5(3) for details.</div> <div>*Uranium(chronic) = See 32.5(3) for details.</div>		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
		Inorganic (mg/L)			Copper	TVS	TVS	
					Iron	---	WS	
					Iron(T)	---	1000	
					Lead	TVS	TVS	
		Ammonia	TVS	TVS	Lead(T)	50	---	
		Boron	---	0.75	Manganese	TVS	TVS/WS	
		Chloride	---	250	Mercury(T)	---	0.01	
		Chlorine	0.019	0.011	Molybdenum(T)	---	150	
		Cyanide	0.005	---	Nickel	TVS	TVS	
		Nitrate	10	---	Nickel(T)	---	100	
		Nitrite	---	0.05	Selenium	TVS	TVS	
		<u>Nitrogen</u>	---	TVS	Silver	TVS	TVS(tr)	
		Phosphorus	---	0.025*TVS	Uranium	varies*	varies*	
Sulfate	---	WS	Zinc	TVS	TVS			
Sulfide	---	0.002						

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Middle Arkansas River Basin

1. All tributaries, including wetlands, to the Arkansas River within the Sangre de Cristo, Greenhorn, and Spanish Peaks Wilderness Areas.

COARMA01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

2. Mainstem of the Arkansas River from the outlet of Pueblo Reservoir to a point immediately above the confluence with Wildhorse/Dry Creek Arroyo.

COARMA02	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Middle Arkansas River Basin

3. Mainstem of the Arkansas River from a point immediately above the confluence with Wildhorse/Dry Creek Arroyo to a point immediately above the confluence with Fountain Creek.							
COARMA03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	TVS	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic		Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		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)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	26.3	17.1
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
4a. Mainstem of Wildhorse Creek from the source to the confluence with the Arkansas River.							
COARMA04A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	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
*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 32.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 32.5(4). *Selenium(acute) = See selenium assessment location at 32.6(4). *Selenium(chronic) = See selenium assessment location at 32.6(4). *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (mg/m²)	---	150*TVS	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	2376*	2110*
		Nitrite	---	0.05	Silver	TVS	TVS
		Phosphorus	---	0.17TVS*	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

4a. Mainstem of Wildhorse Creek from the source to the confluence with the Arkansas River.							
COARMA04A		Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	100	
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: *chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 32.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 32.5(4). *Selenium(acute) = See selenium assessment location at 32.6(4). *Selenium(chronic) = See selenium assessment location at 32.6(4). *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m ²)	---	150*TVS	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	2376*	2110*		
Nitrite	---	0.05	Silver	TVS	TVS		
Phosphorus	---	0.17TVS*	Uranium	varies*	varies*		
Sulfate	---	---	Zinc	TVS	TVS		
Sulfide	---	0.002					

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Middle Arkansas River Basin

4b. Mainstem of Rock Creek, Salt Creek and Peck Creek from their sources to the confluence with the Arkansas River.

COARMA04B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m ²)	---	150TVS	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	---	0.47TVS	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

4c. Mainstem of Chico Creek, including all tributaries and wetlands, from the source to the confluence with the Arkansas River, except for specific listings in segment 4f.

COARMA04C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Water Supply	acute		chronic	Arsenic(T)	---	0.02
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: *chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 32.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 32.5(4). *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlrophyll a (mg/m ²)	---	450*TVS	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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.47TVS*	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Middle Arkansas River Basin

4d. All tributaries, including wetlands, to the Arkansas River and Pueblo Reservoir from the inlet to Pueblo Reservoir to the Colorado Canal headgate, except for specific listings in the Fountain Creek Subbasin and in segments 4a, 4b, 4c and 4e through 18b.

COARMA04D	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic(T)	---	0.02-10 ^A
	Water Supply	acute		chronic	Beryllium(T)	---	100
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium(T)	5.0	10
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 32.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 32.5(4).</div> <div>*Uranium(acute) = See 32.5(3) for details.</div> <div>*Uranium(chronic) = See 32.5(3) for details.</div>		chlorophyll a (mg/m²)	---	<u>450*TVS</u>	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI(T)	---	100
		Inorganic (mg/L)			Copper(T)	---	200
		acute		chronic	Iron	---	WS
		Ammonia	---	---	Lead(T)	50	100
		Boron	---	0.75	Manganese	---	WS
		Chloride	---	250	Mercury(T)	---	---
		Chlorine	---	---	Molybdenum(T)	---	150
		Cyanide	0.2	---	Nickel(T)	---	100
		Nitrate	10	---	Selenium(T)	---	20
		Nitrite	10	---	Silver	---	---
		Phosphorus	---	<u>0.47TVS*</u>	Uranium	varies*	varies*
		Sulfate	---	WS	Zinc(T)	---	2000
		Sulfide	---	---			

4e. Golf Course Wash

COARMA04E	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Beryllium(T)	---	100
Other: *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Cadmium(T)	---	10
		chlorophyll a (mg/m²)	---	450TVS	Chromium III	TVS	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	---	100
		Inorganic (mg/L)			Chromium VI(T)	---	100
		acute		chronic	Copper(T)	---	200
		Ammonia	TVS	TVS	Iron	---	---
		Boron	---	0.75	Lead(T)	---	100
		Chloride	---	---	Manganese	---	---
		Chlorine	---	---	Mercury(T)	---	---
		Cyanide	0.2	---	Molybdenum(T)	---	150
		Nitrate	100	---	Nickel(T)	---	200
		Nitrite	10	---	Selenium	TVS	TVS
		Phosphorus	---	0.47TVS	Silver	---	---
		Sulfate	---	---	Uranium	varies*	varies*
		Sulfide	---	---	Zinc(T)	---	2000

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Middle Arkansas River Basin

4f. Mainstem of Black Squirrel Creek, including all tributaries and wetlands, from just below Highway 94 to Squirrel Creek Road.							
COARMA04F		Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM		MWAT	acute		chronic
	UP	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic(T)	---
	Recreation P	acute		chronic	Beryllium(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium(T)	---	10
Other:		pH	6.5 - 9.0	---	Chromium III(T)	---	100
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 32.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 32.5(4).</div> <div>*Uranium(acute) = See 32.5(3) for details.</div> <div>*Uranium(chronic) = See 32.5(3) for details.</div>		chlorophyll a (mg/m ²)	---	150*TVS	Chromium VI(T)	---	100
		E. Coli (per 100 mL)	---	205	Copper(T)	---	200
		Inorganic (mg/L)			Iron	---	---
		acute		chronic	Lead(T)	---	100
		Ammonia	---	---	Manganese(T)	---	200
		Boron	---	0.75	Mercury(T)	---	---
		Chloride	---	---	Molybdenum(T)	---	150
		Chlorine	---	---	Nickel(T)	---	200
		Cyanide	0.2	---	Selenium(T)	---	20
		Nitrate	100	---	Silver	---	---
		Nitrite	10	---	Uranium	varies*	varies*
		Phosphorus	---	0-17TVS*	Zinc(T)	---	2000
		Sulfate	---	---			
		Sulfide	---	---			

4g. Mainstem of Pesthouse Gulch, from the source to the confluence with Wildhorse Creek.							
COARMA04G		Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM		MWAT	acute		chronic
	UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic(T)	---
	Recreation E	acute		chronic	Beryllium(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium(T)	---	10
Other:		pH	6.5 - 9.0	---	Chromium III(T)	---	100
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 32.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 32.5(4).</div> <div>*Selenium(acute) = See selenium assessment location at 32.6(4).</div> <div>*Selenium(chronic) = See selenium assessment location at 32.6(4).</div> <div>*Uranium(acute) = See 32.5(3) for details.</div> <div>*Uranium(chronic) = See 32.5(3) for details.</div>		chlorophyll a (mg/m ²)	---	150*TVS	Chromium VI(T)	---	100
		E. Coli (per 100 mL)	---	126	Copper(T)	---	200
		Inorganic (mg/L)			Iron	---	---
		acute		chronic	Lead(T)	---	100
		Ammonia	---	---	Manganese(T)	---	200
		Boron	---	0.75	Mercury(T)	---	---
		Chloride	---	---	Molybdenum(T)	---	150
		Chlorine	---	---	Nickel(T)	---	200
		Cyanide	0.2	---	Selenium	389*	369*
		Nitrate	100	---	Silver	---	---
		Nitrite	10	---	Uranium	varies*	varies*
		Phosphorus	---	0-17TVS*	Zinc(T)	---	2000
		Sulfate	---	---			
		Sulfide	---	---			

4g. Mainstem of Pesthouse Gulch, from the source to the confluence with Wildhorse Creek.								
COARMA04G		Classifications		Physical and Biological		Metals (ug/L)		
Designation		Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 2	Temperature °C	WS-II		WS-II	Arsenic(T)	---	100
	Recreation E		acute		chronic	Beryllium(T)	---	100
Qualifiers:		D.O. (mg/L)	---		5.0	Cadmium(T)	---	10
Other:		pH	6.5 - 9.0		---	Chromium III(T)	---	100
<p>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 32.5(4).</p> <p>*Phosphorus(chronic) = applies only above the facilities listed at 32.5(4).</p> <p>*Selenium(acute) = See selenium assessment location at 32.6(4).</p> <p>*Selenium(chronic) = See selenium assessment location at 32.6(4).</p> <p>*Uranium(acute) = See 32.5(3) for details.</p> <p>*Uranium(chronic) = See 32.5(3) for details.</p>		chlorophyll a (mg/m ²)	---		150*TVS	Chromium VI(T)	---	100
		E. Coli (per 100 mL)	---		126	Copper(T)	---	200
		Inorganic (mg/L)				Iron	---	---
			acute		chronic	Lead(T)	---	100
		Ammonia	---		---	Manganese(T)	---	200
		Boron	---		0.75	Mercury(T)	---	---
		Chloride	---		---	Molybdenum(T)	---	150
		Chlorine	---		---	Nickel(T)	---	200
		Cyanide	0.2		---	Selenium	389*	369*
		Nitrate	100		---	Silver	---	---
		Nitrite	10		---	Uranium	varies*	varies*
		Phosphorus	---		0-17TVS*	Zinc(T)	---	2000
		Sulfate	---		---			
		Sulfide	---		---			

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Middle Arkansas River Basin

5a. Mainstem of the Saint Charles River, including all tributaries and wetlands, from the source to the San Isabel National Forest boundary.						
COARMA05A	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---
Other:		chlorophyll a (mg/m ²)	---	150TVS	Chromium III(T)	50
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
Arsenic(chronic) = hybrid					Copper	TVS
Expiration Date of 12/31/2024					Iron	---
*Uranium(acute) = See 32.5(3) for details.		Inorganic (mg/L)		Iron(T)	---	1000
*Uranium(chronic) = See 32.5(3) for details.		acute	chronic	Lead	TVS	TVS
		Ammonia	TVS	TVS	Lead(T)	50
		Boron	---	0.75	Manganese	TVS
		Chloride	---	250	Mercury(T)	---
		Chlorine	0.019	0.011	Molybdenum(T)	---
		Cyanide	0.005	---	Nickel	TVS
		Nitrate	10	---	Nickel(T)	---
		Nitrite	---	0.05	Selenium	TVS
		Phosphorus	---	0.44TVS	Silver	TVS
		Sulfate	---	WS	Uranium	varies*
		Sulfide	---	0.002	Zinc	TVS

5b. Mainstem of the Saint Charles River, including all tributaries and wetlands, from the San Isabel National Forest boundary to a point immediately above the CF&I diversion canal (38.045800, -104.802787) near Burnt Mill.						
COARMA05B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---
Other:		chlorophyll a (mg/m ²)	---	150TVS	Chromium III(T)	50
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
Arsenic(chronic) = hybrid					Copper	TVS
Expiration Date of 12/31/2024					Iron	---
*Uranium(acute) = See 32.5(3) for details.		Inorganic (mg/L)		Iron(T)	---	1000
*Uranium(chronic) = See 32.5(3) for details.		acute	chronic	Lead	TVS	TVS
		Ammonia	TVS	TVS	Lead(T)	50
		Boron	---	0.75	Manganese	TVS
		Chloride	---	250	Mercury(T)	---
		Chlorine	0.019	0.011	Molybdenum(T)	---
		Cyanide	0.005	---	Nickel	TVS
		Nitrate	10	---	Nickel(T)	---
		Nitrite	---	0.05	Selenium	TVS
		Phosphorus	---	0.44TVS	Silver	TVS
		Sulfate	---	WS	Uranium	varies*
		Sulfide	---	0.002	Zinc	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Middle Arkansas River Basin

6a. Mainstem of the Saint Charles River from a point immediately above the CF&I diversion canal (38.045800, -104.802787) near Burnt Mill to a point immediately upstream of the confluence with Edson Arroyo.

COARMA06A Classifications		Physical and Biological		Metals (ug/L)	
Designation		DM	MWAT	acute	chronic
UP	Agriculture				
	Aq Life Warm 2	Temperature °C	WS-II WS-II	Arsenic	340 ---
	Recreation E		acute chronic	Arsenic(T)	--- 0.02-10 ^A
	Water Supply	D.O. (mg/L)	--- 5.0	Cadmium	TVS TVS
Qualifiers:		pH	6.5 - 9.0 ---	Cadmium(T)	5.0 ---
Other: *chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 32.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 32.5(4). *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (mg/m ²)	--- 450 TVS	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)	--- 150
		Phosphorus	--- 0.47 TVS*	Nickel	TVS TVS
		Sulfate	--- WS	Nickel(T)	--- 100
		Sulfide	--- 0.002	Selenium	TVS TVS
				Silver	TVS TVS
				Uranium	varies* varies*
				Zinc	TVS TVS

6b. Mainstem of the Saint Charles River from the confluence with Edson Arroyo to the confluence with the Arkansas River.

COARMA06B Classifications		Physical and Biological		Metals (ug/L)	
Designation		DM	MWAT	acute	chronic
UP	Agriculture				
	Aq Life Warm 2	Temperature °C	varies* varies*	Arsenic	340 ---
	Recreation E		acute chronic	Arsenic(T)	--- 0.02-10 ^A
	Water Supply	D.O. (mg/L)	--- 5.0	Cadmium	TVS TVS
Qualifiers:		pH	6.5 - 9.0 ---	Cadmium(T)	5.0 ---
Other: *Selenium(acute) = See selenium assessment location at 32.6(4). *Selenium(chronic) = See selenium assessment location at 32.6(4). *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details. *Temperature = DM=32.6 and MWAT=WS-II from 3/1-11/30 DM=WS-II and MWAT=WS-II from 12/1-2/29		chlorophyll a (mg/m ²)	--- TVS	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)	--- 150
		Phosphorus	--- ---	Nickel	TVS TVS
		Sulfate	--- WS	Nickel(T)	--- 100
		Sulfide	--- 0.002	Selenium	173* 50*
				Silver	TVS TVS
				Uranium	varies* varies*
				Zinc	TVS TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Middle Arkansas River Basin

7a. Mainstem of Greenhorn Creek, including all tributaries and wetlands, from the source to the San Isabel National Forest boundary, except for specific listings in segment 1. Mainstem of Graneros Creek, from the source to the San Isabel National Forest boundary, except for specific listings in segment 1. All tributaries to Muddy Creek, including wetlands, from the source to the San Isabel National Forest boundary.

COARMA07A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 32.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

7b. Mainstem of Greenhorn Creek, including all tributaries and wetlands, from the San Isabel National Forest boundary to a point immediately below the Greenhorn Highline (Hayden Supply Ditch) diversion dam. Mainstem of Graneros Creek below the San Isabel National Forest boundary. Muddy Creek, including all tributaries and wetlands, from the San Isabel National Forest boundary to 232/Bondurant Road.

COARMA07B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 32.5(3) for details.		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Middle Arkansas River Basin

8. Deleted.							
COARMA08	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT		acute	chronic	
Qualifiers:		acute	chronic				
Other:							
		Inorganic (mg/L)					
		acute	chronic				
9. Mainstem of Greenhorn Creek, from a point immediately below the Greenhorn Highline (Hayden Supply Ditch) diversion dam, to the confluence with the Saint Charles River.							
COARMA09	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Water + Fish Standards Apply		chlorophyll a (mg/m²)	---	150*TVS	Chromium III	---	TVS
Other:		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
		Inorganic (mg/L)			Chromium VI	TVS	TVS
Temporary Modification(s):			acute	chronic	Copper	TVS	TVS
Arsenic(chronic) = hybrid		Ammonia	TVS	TVS	Iron	---	WS
Expiration Date of 12/31/2024		Boron	---	0.75	Iron(T)	---	1000
*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 32.5(4).		Chloride	---	250	Lead	TVS	TVS
*Phosphorus(chronic) = applies only above the facilities listed at 32.5(4).		Chlorine	0.019	0.011	Lead(T)	50	---
*Uranium(acute) = See 32.5(3) for details.		Cyanide	0.005	---	Manganese	TVS	TVS/WS
*Uranium(chronic) = See 32.5(3) for details.		Nitrate	10	---	Mercury(T)	---	0.01
		Nitrite	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.17TVS*	Nickel	TVS	TVS
		Sulfate	---	700	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Middle Arkansas River Basin

10. Mainstem of Sixmile Creek from the source to the confluence with the Arkansas River.							
COARMA10	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m ²)	---	150 TVS	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	---	0.5	Silver	TVS	TVS
		Phosphorus	---	0.47 TVS	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			
11a. Mainstem of the Huerfano River including all tributaries and wetlands, from the source to 570 Road near Malachite, except for the specific listings in segment 1. Pass Creek, including all tributaries and wetlands, from the source to 565 Road. Muddy Creek, including all tributaries and wetlands, from the source to a point immediately below the confluence with Bruff Creek, except for the specific listings in segment 1. Mainstem of Turkey Creek (in Huerfano County) from the source to 620 Road, except for the specific listings in segment 1.							
COARMA11A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	150 TVS	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	---	0.44 TVS	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Middle Arkansas River Basin

11b. Mainstem of the Huerfano River, including all tributaries and wetlands, from 570 Road near Malachite to Highway 69 at Badito, except for the specific listings in segment 1, 11a and 17.

COARMA11B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

12. Mainstem of Huerfano River from Highway 69 at Badito to the confluence with the Arkansas River.

COARMA12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Water Supply	acute	chronic		Arsenic(T)	---	0.02-10 ^A
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m ²)	---	150 TVS	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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.17 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Middle Arkansas River Basin

13a. All tributaries, including wetlands, to the Cucharas River within the San Isabel National Forest boundaries, except for the specific listings in segment 1. Mainstem of the Cucharas River, from the source to a point immediately above the confluence with Middle Creek, except for the specific listings in segment 1. Wahatoya Creek, including all tributaries and wetlands, from the source to the confluence with the Cucharas River, except for the specific listings in segment 1. All tributaries to Middle Creek, including wetlands, from the source to a point immediately below the confluence of North and South Middle Creeks.

COARMA13A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 32.5(3) for details.		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

13b. Mainstem of the Cucharas River from a point immediately above the confluence with Middle Creek to the confluence with North Abeyta Creek (37.567852, -104.907046). All tributaries, including wetlands, to the Cucharas River from the San Isabel National Forest boundary to a point immediately below North Abeyta Creek (37.567852, -104.907046), except for specific listings in Segment 13a. Mainstem of Middle Creek, including all tributaries and wetlands, from a point immediately below the confluence of North and South Middle Creeks to the confluence with the Cucharas River, except for specific listings in 13a.

COARMA13B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m ²)	---	450 *TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Iron	---	WS
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 32.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 32.5(4).</div> <div>*Uranium(acute) = See 32.5(3) for details.</div> <div>*Uranium(chronic) = See 32.5(3) for details.</div>			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 32.5(4).

*Phosphorus(chronic) = applies only above the facilities listed at 32.5(4).

*Uranium(acute) = See 32.5(3) for details.

*Uranium(chronic) = See 32.5(3) for details.

All metals are dissolved unless otherwise noted.

T = total recoverable

t = total

tr = trout

D.O. = dissolved oxygen

DM = daily maximum

MWAT = maximum weekly average temperature

See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Middle Arkansas River Basin

13c. All tributaries and wetlands to the Cucharas and Huerfano Rivers not on forest service lands, except for specific listings in 13a and 13b.

COARMA13C	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic(T) --- 0.02-10 ^A
	Recreation N	acute	chronic	Beryllium(T) --- 4.0	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium(T) 5.0 ---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III --- TVS
Other:		chlorophyll a (mg/m ²)	---	---	Chromium III(T) 50 ---
		E. Coli (per 100 mL)	---	630	Chromium VI(T) 50 100
		Inorganic (mg/L)		Copper(T) --- 200	
		acute	chronic	Iron --- WS	
		Ammonia	---	---	Lead(T) 50 100
		Boron	---	0.75	Manganese --- WS
		Chloride	---	250	Mercury(T) 2.0 ---
		Chlorine	---	---	Molybdenum(T) --- 150
		Cyanide	0.2	---	Nickel(T) --- 100
		Nitrate	10	---	Nickel(T) --- 100
		Nitrite	1.0	---	Selenium(T) --- 20
		Phosphorus	---	0.47TVS*	Silver(T) --- 100
		Sulfate	---	WS	Uranium varies* varies*
		Sulfide	---	0.05	Zinc(T) --- 2000

14. Mainstem of the Cucharas River from the point of diversion for the Walsenburg public water supply to the outlet of Cucharas Reservoir.

COARMA14	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic 340 ---
	Water Supply	acute	chronic	Arsenic(T) --- 0.02	
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium TVS TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T) 5.0 ---
Other:		chlorophyll a (mg/m ²)	---	150*TVS	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	---	0.5	Molybdenum(T) --- 150
		Phosphorus	---	0.47TVS*	Nickel TVS TVS
		Sulfate	---	WS	Nickel(T) --- 100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

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15. Mainstem of Cucharas River from the outlet of Cucharas Reservoir to the confluence with the Huerfano River.							
COARMA15	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic(T)	---	100
	Recreation E	acute	chronic		Beryllium(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium(T)	---	10
Other:		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m²)	---	—TVS—	Chromium III(T)	---	100
		E. Coli (per 100 mL)	---	126	Chromium VI(T)	---	100
		Inorganic (mg/L)			Copper(T)	---	200
		acute	chronic		Iron	---	---
		Ammonia	---	---	Lead(T)	---	100
		Boron	---	0.75	Manganese	---	---
		Chloride	---	---	Mercury(T)	---	---
		Chlorine	---	---	Molybdenum(T)	---	150
		Cyanide	0.2	---	Nickel(T)	---	200
		Nitrate	100	---	Selenium(T)	---	20
		Nitrite	10	---	Silver	---	---
		Phosphorus	---	---	Uranium	varies*	varies*
		Sulfate	---	---	Zinc(T)	---	2000
		Sulfide	---	---			
16. Deleted.							
COARMA16	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT	acute		chronic	
Qualifiers:		acute	chronic				
Other:							
		Inorganic (mg/L)					
		acute	chronic				

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Middle Arkansas River Basin

17. All tributaries to Apache Creek, including wetlands, from the source to a point immediately below the confluence of North and South Apache Creeks, except for the specific listings in segment 1. All tributaries, including wetlands, to the Huerfano River above the confluence with the Cucharas River that are within the San Isabel National Forest boundaries, except for the specific listings in segment 1 and 11a.

COARMA17	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 32.5(3) for details.		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

18a. Mainstem of Boggs Creek from the source to Pueblo Reservoir.

COARMA18A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	150 TVS	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute		chronic	Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 32.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.47 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

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18b. Turkey Creek (Pueblo County) from U.S. Highway 50 to Pueblo Reservoir. Unnamed tributary to Arkansas River, that flows from the south and whose confluence with the Arkansas River is located at 38.267623, -104.668298. Mainstem of Rush Creek (Pueblo County) from the source to the confluence with the Arkansas River.							
COARMA18B	Classifications		Physical and Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	450TVS	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid					Chromium VI	TVS	TVS
Expiration Date of 12/31/2024			acute	chronic	Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 32.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.47TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
19. All lakes and reservoirs tributary to the Arkansas River within the Sangre de Cristo, Greenhorn, and Spanish Peaks Wilderness areas.							
COARMA19	Classifications		Physical and Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		chlorophyll a (ug/L)	---	8TVS	Chromium III(T)	50	---
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.					Copper	TVS	TVS
*Uranium(chronic) = See 32.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	0.025TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

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20. Pueblo Reservoir.							
COARMA20	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
	DUWS	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (ug/L)	---	5*	Chromium III(T)	50	---
Temporary Modification(s):		<u>chlorophyll a (ug/L)</u>		<u>TVS</u>	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Copper	TVS	TVS
Expiration Date of 12/31/2024					Iron	---	WS
*chlorophyll a (ug/L)(chronic) = See assessment location at 32.6(4).		Inorganic (mg/L)			Iron(T)	---	1000
*Uranium(acute) = See 32.5(3) for details.			acute	chronic	Lead	TVS	TVS
*Uranium(chronic) = See 32.5(3) for details.		Ammonia	TVS	TVS	Lead(T)	50	---
*Temperature =		Boron	---	0.75	Manganese	TVS	TVS/WS
DM=CLL and MWAT=CLL from 1/1-3/31		Chloride	---	250	Mercury(T)	---	0.01
DM= CLL and MWAT=23.6 from 4/1-12/31		Chlorine	0.019	0.011	Molybdenum(T)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	10	---	Nickel(T)	---	100
		Nitrite	---	0.05	Selenium	TVS	TVS
		<u>Nitrogen</u>	<u>---</u>	<u>TVS</u>	Silver	TVS	TVS(tr)
		Phosphorus	---	<u>TVS</u>	Uranium	varies*	varies*
		Sulfate	---	WS	Zinc	TVS	TVS
		Sulfide	---	0.002			

21. All lakes and reservoirs tributary to Chico Creek from the source to the confluence with the Arkansas River.							
COARMA21	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (ug/L)	---	<u>20*TVS</u>	Chromium III	---	TVS
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		Inorganic (mg/L)			Chromium VI	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.			acute	chronic	Copper	TVS	TVS
*Uranium(chronic) = See 32.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		<u>Nitrogen</u>	<u>---</u>	<u>TVS</u>	Nickel	TVS	TVS
		Phosphorus	---	<u>0.083*TVS</u>	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

21. All lakes and reservoirs tributary to Chico Creek from the source to the confluence with the Arkansas River.							
COARMA21	Classifications	Physical and Biological		Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (ug/L)	---	20*TVS	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	---	0.5	Molybdenum(T)	---	150
		Nitrogen	---	TVS	Nickel	TVS	TVS
		Phosphorus	---	0.083*TVS	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Middle Arkansas River Basin

22. All lakes and reservoirs tributary to the Saint Charles River from the source to a point immediately above the CF&I diversion canal near Burnt Mill.							
COARMA22	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (ug/L)	---	8*TVS	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
		Nitrogen	---	TVS	Nickel(T)	---	100
		Phosphorus	---	0.025*TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
			Zinc	TVS	TVS		
23. All lakes and reservoirs tributary to Greenhorn Creek from the source to a point immediately below the Greenhorn Highline (Hayden Supply Ditch) diversion dam, except for specific listings in segment 19. All lakes and reservoirs tributary to Graneros Creek from the source to the San Isabel National Forest boundary, except for specific listings in segment 19. All lakes and reservoirs tributary to Muddy Creek from the source to 232/Bondurant Road. Beckwith Reservoir.							
COARMA23	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
	DUWS*	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Classification: DUWS Applies only applies to Beckwith Reservoir. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (ug/L)	---	8*DUWS	Chromium III(T)	50	---
		chlorophyll a (ug/L)	---	TVS	Chromium VI	TVS	TVS
		E. Coli (per 100 mL)	---	126	Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
Sulfide	---	0.002	Zinc	TVS	TVS		

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Middle Arkansas River Basin

24. All lakes and reservoirs tributary to the Huerfano River from the source to Highway 69 at Badito, except for the specific listings in segment 19. All lakes and reservoirs tributary to the Huerfano River above the confluence with the Cucharas River that are within the San Isabel National Forest boundaries, except for the specific listings in segment 19.

COARMA24	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Nitrogen	---	TVS	Nickel(T)	---
		Phosphorus	---	0.025*TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

25. All lakes and reservoirs tributary to the Cucharas River from the source to the point of diversion for the Walsenburg public water supply, except for the specific listings in segment 19. Huajatolla Reservoirs and Diagre Reservoir

COARMA25	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Nitrogen	---	TVS	Nickel(T)	---
		Phosphorus	---	0.025*TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Middle Arkansas River Basin

26. Horseshoe Lake, Martin Lake (Ohem Lake) and Walsenburg Lower Town Lake.							
COARMA26	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
	DUWS	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:	<p>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Uranium(acute) = See 32.5(3) for details.</p> <p>*Uranium(chronic) = See 32.5(3) for details.</p> <p>*Temperature =</p> <p>Horseshoe DM=CLL and MWAT=CLL from 1/1-3/31, DM= CLL and MWAT=18.8 from 4/1-12/31.</p> <p>Martin DM=CLL and MWAT=CLL from 1/1-3/31, DM= CLL and MWAT=21.7 from 4/1-12/31.</p> <p>Walsenburg DM=CL and MWAT=CL</p>	chlorophyll a (ug/L)	---	8*DUWS	Chromium III(T)	50	---
		chlorophyll a (ug/L)	---	TVS	Chromium VI	TVS	TVS
		E. Coli (per 100 mL)	---	126	Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS	TVS(tr)
Sulfate	---	WS	Uranium	varies*	varies*		
Sulfide	---	0.002	Zinc	TVS	TVS		
27. Deleted.							
COARMA27	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT		acute	chronic	
Qualifiers:		acute	chronic				
Other:							
		Inorganic (mg/L)					
		acute	chronic				

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Middle Arkansas River Basin

28. Valco Ponds and Runyon/Fountain Lake.							
COARMA28	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT			
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (mg/m²ug/L)	---	---TVS	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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Fountain Creek Basin

1a. Mainstem of Fountain Creek, including all tributaries and wetlands, from the source to a point immediately above the confluence with Monument Creek, except for specific listings in segment 1b.

COARFO01A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 32.5(3) for details.		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

1b. Severy Creek and all tributaries from the source to a point just upstream of where US Forest Service Road 330 crosses the stream.

COARFO01B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 32.5(3) for details.		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Fountain Creek Basin

2a. Mainstem of Fountain Creek from a point immediately above the confluence with Monument Creek to a point immediately above the State Highway 47 Bridge.							
COARFO02A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02-10	^A
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	TVS	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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

2b. Mainstem of Fountain Creek from a point immediately above the State Highway 47 Bridge to the confluence with the Arkansas River.							
COARFO02B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02-10	^A
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	TVS	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)	---	3300
		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	485	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	28.1
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Fountain Creek Basin

3a. All tributaries to Fountain Creek which are within the boundaries of National Forest or Air Force Academy lands, including all wetlands, from a point immediately above the confluence with Monument Creek to the confluence with the Arkansas River, except for the mainstem of Monument Creek in the Air Force Academy lands and specific listings in segment 3b. Cheyenne Creek, including tributaries and wetlands from the source to the confluence with Fountain Creek. Bear Creek below Gold Camp Road to the confluence with Fountain Creek. Little Fountain Creek from the source to Highway 115. Rock Creek from the source to Highway 115. North Monument Creek from the source to the confluence with Monument Creek. Beaver Creek from the source to the confluence with Monument Creek.

COARFO03A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
	Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

3b. Bear Creek, and all tributaries, from the source to a point immediately upstream of Gold Camp Road.

COARFO03B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
*Uranium(acute) = See 32.5(3) for details.			acute	chronic	Iron(T)	---	1000
*Uranium(chronic) = See 32.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Fountain Creek Basin

4a. Mainstems of Jackson Creek, Monument Branch, Elkhorn Springs, Pine Creek, South Pine Creek, South Rockrimmon Creek, Templeton Gap North, Templeton Gap Floodway, Douglas Creek and South Douglas Creek, from the sources to confluences with Monument Creek, including all tributaries and wetlands, which are not within the boundaries of the National Forest or Air Force Academy lands.

COARFO04A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	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
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 32.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 32.5(4).</div> <div>*Uranium(acute) = See 32.5(3) for details.</div> <div>*Uranium(chronic) = See 32.5(3) for details.</div>		chlorophyll a (mg/m²)	---	150 *TVS	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	---	250	Mercury(T)	---	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	100	---	Selenium	TVS	TVS
		Nitrite	---	0.5	Silver	TVS	TVS
		Phosphorus	---	0.17 *TVS*	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

4b. All tributaries to Monument Creek from the sources to the confluences with Monument Creek which are not within the boundaries of National Forest or Air Force Academy lands, including all wetlands, from a point immediately below the confluence with North Monument Creek to the confluence with Fountain Creek, except for specific listings in segments 3a, 4a and 4c. This includes Dirty Woman Creek, Smith Creek, Black Squirrel Creek, Cottonwood Creek, Dry Creek and an unnamed tributary with the confluence at Monument Creek located near (38.948613, -104.829623).

COARFO04B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 32.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 32.5(4). *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (mg/m ²)	---	150 [*] TVS	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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.17 [*] TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Fountain Creek Basin

4c. Mainstems of Kettle Creek, North Rockrimmon Creek and Mesa Creek, including tributaries and wetlands, from the sources to confluences with Monument Creek.						
COARF004C	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Other:		chlorophyll a (mg/m ²)	---	150*TVS	Chromium III	---
<p>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 32.5(4).</p> <p>*Phosphorus(chronic) = applies only above the facilities listed at 32.5(4).</p> <p>*Uranium(acute) = See 32.5(3) for details.</p> <p>*Uranium(chronic) = See 32.5(3) for details.</p>		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	---
		Boron	---	0.75	Iron(T)	---
		Chloride	---	250	Lead	TVS
		Chlorine	0.019	0.011	Lead(T)	50
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	---	0.5	Molybdenum(T)	---
		Phosphorus	---	0.17TVS*	Nickel	TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	TVS
						TVS

4d. All tributaries with confluences with Fountain Creek from South Academy Blvd (CO83) to and including the unnamed tributary immediately south of Old Pueblo Road (38.585843, -104.669591), including tributaries and wetlands, except for Little Fountain Creek and its tributaries and wetlands, and specific listings in segments 3a, 5a and 5b. All tributaries with confluences with Fountain Creek from a point immediately above University Blvd (CO47) (38.312846, -104.590524), to the confluence with the Arkansas River.						
COARF004D	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS
Other:		pH	6.5 - 9.0	---	Chromium III	TVS
<p>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 32.5(4).</p> <p>*Phosphorus(chronic) = applies only above the facilities listed at 32.5(4).</p> <p>*Uranium(acute) = See 32.5(3) for details.</p> <p>*Uranium(chronic) = See 32.5(3) for details.</p>		chlorophyll a (mg/m ²)	---	150*TVS	Chromium III(T)	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Manganese	TVS
		Chloride	---	250	Mercury(T)	---
		Chlorine	0.019	0.011	Molybdenum(T)	---
		Cyanide	0.005	---	Nickel	TVS
		Nitrate	100	---	Selenium	TVS
		Nitrite	---	0.5	Silver	TVS
		Phosphorus	---	0.17TVS*	Uranium	varies*
		Sulfate	---	---	Zinc	TVS
		Sulfide	---	0.002		TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Fountain Creek Basin

4e. All tributaries to Fountain Creek, including tributaries and wetlands, from a point immediately below the confluence with Monument Creek to University Blvd (CO47) near Pueblo except for specific listings in 3a, 4d, 5a and 5b.

COARF004E	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III	---	TVS
<p>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 32.5(4).</p> <p>*Phosphorus(chronic) = applies only above the facilities listed at 32.5(4).</p> <p>*Uranium(acute) = See 32.5(3) for details.</p> <p>*Uranium(chronic) = See 32.5(3) for details.</p>		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.17 TVS*	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

5a. Jimmy Camp Creek, including all tributaries and wetlands from the source to Old Pueblo Road (38.673200, -104.696739). Williams Creek, including all tributaries and wetlands, from the source to the confluence with Fountain Creek.

COARF005A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Water Supply	acute	chronic		Arsenic(T)	---	0.02
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III	---	TVS
<p>Temporary Modification(s):</p> <p>Arsenic(chronic) = hybrid</p> <p>Expiration Date of 12/31/2024</p> <p>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 32.5(4).</p> <p>*Phosphorus(chronic) = applies only above the facilities listed at 32.5(4).</p> <p>*Uranium(acute) = See 32.5(3) for details.</p> <p>*Uranium(chronic) = See 32.5(3) for details.</p>		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.17 TVS*	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Fountain Creek Basin

5b. Jimmy Camp Creek from Old Pueblo Road (38.673200, -104.696739) to the confluence with Fountain Creek, including the marshland located on the 60-acre parcel at 13030 Old Pueblo Road. Unnamed tributary from the boundary of Fort Carson (38.694465, -104.738735) to the confluence with Fountain Creek.

COARFO05B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation N	acute		chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		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	---	0.5	Silver	TVS	TVS
		Phosphorus	---	0.47TVS	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

6. Mainstem of Monument Creek, from the boundary of National Forest lands to the confluence with Fountain Creek.

COARFO06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: *chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 32.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 32.5(4). *Copper(acute) = Copper BLM –based Fixed Monitoring Benchmark (FMB) Copper FMBa = 28.4µg/L for a subsegment of Monument Creek from immediately above the Tri-Lakes Wastewater Treatment Facility to the North Gate Boulevard Bridge. *Copper(chronic) = Copper BLM –based Fixed Monitoring Benchmark (FMB) Copper FMBc = 17.8µg/L for a subsegment of Monument Creek from immediately above the Tri-Lakes Wastewater Treatment Facility to the North Gate Boulevard Bridge. *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (mg/m ²)	---	450*TVS	Chromium III	---	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
		Inorganic (mg/L)			Chromium VI	TVS	TVS
		acute		chronic	Copper	---	TVS*
		Ammonia	TVS	TVS	Copper	TVS*	---
		Boron	---	0.75	Iron	---	WS
		Chloride	---	250	Iron(T)	---	1000
		Chlorine	0.019	0.011	Lead	TVS	TVS
		Cyanide	0.005	---	Lead(T)	50	---
		Nitrate	10	---	Manganese	TVS	TVS/WS
Nitrite	---	0.5	Mercury(T)	---	0.01		
Phosphorus	---	0.47TVS*	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Fountain Creek Basin

7a. Pikeview Reservoir, Willow Springs Pond #1, and Willow Springs Pond #2.

COARF007A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Water + Fish Standards Apply		chlorophyll a (mg/m³ug/L)	---	TVS	Chromium III	---	TVS
Other:		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
*Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

7b. Prospect Lake, Quail Lake, and Monument Lake.

COARF007B	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute chronic	
UP	Aq Life Warm 2	Temperature °C	WL WL	Arsenic	340 ---
	Recreation E	acute	chronic	Arsenic(T)	--- 7.6
Qualifiers:		D.O. (mg/L)	--- 5.0	Cadmium	TVS TVS
Fish Ingestion Standards Apply		pH	6.5 - 9.0 ---	Chromium III	TVS TVS
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (ug/L)	--- 20*TVS	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	--- 0.5	Silver	TVS TVS
		Nitrogen	--- - TVS	Uranium	varies* varies*
		Phosphorus	--- 0.083*TVS	Zinc	TVS TVS
		Sulfate	--- ---		
Sulfide	--- 0.002				

*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.

*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.

*Uranium(acute) = See 32.5(3) for details.

*Uranium(chronic) = See 32.5(3) for details.

All metals are dissolved unless otherwise noted.

T = total recoverable

t = total

tr = trout

D.O. = dissolved oxygen

DM = daily maximum

MWAT = maximum weekly average temperature

See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Fountain Creek Basin

8. All lakes and reservoirs tributary to the mainstem of Fountain Creek from the source to a point immediately above the confluence with Monument Creek, except for specific listings in segment 9.

COARFO08	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
	DUWS*	D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	TVS
Other:		chlorophyll a (ug/L)	---	8*DUWS	Chromium III(T)	50
Temporary Modification(s):		<u>chlorophyll a (ug/L)</u>	---	TVS	Chromium VI	TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Copper	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)		Iron	---	WS
		acute	chronic	Iron(T)	---	1000
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		Ammonia	TVS	TVS	Lead	TVS
*Classification: DUWS applies to Big Tooth Reservoir, Lake Moraine, and Woodmoor Lake.		Boron	---	0.75	Lead(T)	50
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		Chloride	---	250	Manganese	TVS
*Uranium(acute) = See 32.5(3) for details.		Chlorine	0.019	0.011	Mercury(T)	---
*Uranium(chronic) = See 32.5(3) for details.		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		<u>Nitrogen</u>	---	TVS	Selenium	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS
		Sulfate	---	WS	Uranium	varies*
		Sulfide	---	0.002	Zinc	TVS

9. North Catamount Reservoir, South Catamount Reservoir, and Crystal Creek Reservoir.

COARFO09	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	CLL	CLL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
	DUWS*	D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	TVS
Other:		chlorophyll a (ug/L)	---	DUWS8*	Chromium III(T)	50
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		<u>chlorophyll a (ug/L)</u>	---	TVS	Chromium VI	TVS
*Classification: All reservoirs=DUWS		E. Coli (per 100 mL)	---	126	Copper	TVS
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		Inorganic (mg/L)		Iron	---	WS
*Uranium(acute) = See 32.5(3) for details.		acute	chronic	Iron(T)	---	1000
*Uranium(chronic) = See 32.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		<u>Nitrogen</u>	---	TVS	Selenium	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS
		Sulfate	---	WS	Uranium	varies*
		Sulfide	---	0.002	Zinc	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Fountain Creek Basin

10. All lakes and reservoirs tributary to Fountain Creek which are within the boundaries of National Forest or Air Force Academy lands from a point immediately above the confluence with Monument Creek to the confluence with the Arkansas River, except for specific listings in Segment 11. This segment includes Rampart Reservoir.

COARFO10	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CL,CLL	CL,CLL	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
	DUWS*	D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	TVS
Other:		chlorophyll a (ug/L)	---	8*DUWS	Chromium III(T)	50
		chlorophyll a (ug/L)	---	TVS	Chromium VI	TVS
		E. Coli (per 100 mL)	---	126	Copper	TVS
		Inorganic (mg/L)		Iron	---	WS
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Nitrogen	---	TVS	Selenium	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS
		Sulfate	---	WS	Uranium	varies*
		Sulfide	---	0.002	Zinc	TVS

11. AFA Non Potable Reservoir #1 (38.70939, -104.82928) and all lakes and reservoirs tributary to Fountain Creek from a point immediately above the confluence with Monument Creek to the confluence with the Arkansas River, excluding lakes and reservoirs within the boundaries of the National Forest and other lakes on Air Force Academy lands and the specific listings in segments 7a and 7b.

COARFO11	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS
	DUWS*	pH	6.5 - 9.0	---	Cadmium(T)	5.0
Qualifiers:		chlorophyll a (ug/L)	---	20*DUWS	Chromium III	TVS
Other:		chlorophyll a (ug/L)	---	TVS	Chromium III(T)	50
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.5	Nickel	TVS
		Nitrogen	---	TVS	Nickel(T)	---
		Phosphorus	---	0.083*TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	---	Uranium	varies*
					Zinc	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Arkansas River Basin

1a. Mainstem of the Arkansas River from a point immediately above the confluence with Fountain Creek to immediately above the Colorado Canal headgate near Avondale.							
COARLA01A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Warm 2	Temperature °C	varies*	varies*	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: Discharger Specific Variance(s): Selenium(acute) = 19.1 µg/L: narrative Selenium(chronic) = 14.1 µg/L: narrative Sulfate(chronic) = 329 mg/L: narrative Expiration Date of 12/31/2028 *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details. *Temperature = DM=WS-II and MWAT=WS-II from 1/1-11/30 DM= 21.5 and MWAT=20.7 from 12/1-12/31 *Variance: Selenium = see 32.6(6)(c) for details on variance for City of Pueblo. *Variance: Sulfate = see 32.6(6)(c) for details on variance for City of Pueblo.		chlorophyll a (mg/m ²)	---	TVS	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)	---	2800
		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	329	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	19.1	14.1
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
1b. Mainstem of the Arkansas River from the Colorado Canal headgate to the inlet to John Martin Reservoir.							
COARLA01B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Water + Fish Standards Apply		chlorophyll a (mg/m ²)	---	TVS	Chromium III	---	TVS
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 Discharger Specific Variance(s): Selenium(chronic) = See Section 32.6(6)(d)(ii) for details on variance for the City of Las Animas. Expiration Date of 12/31/2025 *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		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)	---	1950
		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	902	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Arkansas River Basin

1c. Mainstem of the Arkansas River from the outlet of John Martin Reservoir to the Colorado/Kansas border.							
COARLA01C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Water + Fish Standards Apply		chlorophyll a (mg/m²)	---	TVS	Chromium III	---	TVS
Other:		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Temporary Modification(s):		Inorganic (mg/L)			Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid		acute	chronic		Copper	TVS	TVS
Expiration Date of 12/31/2024		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(acute) = See 32.5(3) for details.		Boron	---	0.75	Iron(T)	---	1000
*Uranium(chronic) = See 32.5(3) for details.		Chloride	---	250	Lead	TVS	TVS
		Chlorine	0.019	0.011	Lead(T)	50	---
		Cyanide	0.005	---	Manganese	TVS	TVS/190
		Nitrate	10	---	Mercury(T)	---	0.01
		Nitrite	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	1900	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
2a. All tributaries to the Arkansas River, including wetlands, from the Colorado Canal headgate to the Colorado/Kansas border except for specific listings in segments 2b, 2c, 2d, 3a, through 9b, and Middle Arkansas Basin listings.							
COARLA02A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
UP	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Recreation N	acute	chronic		Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	5.0	Beryllium(T)	---	4.0
Qualifiers:		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
Other:		chlorophyll a (mg/m²)	---	---	Cadmium(T)	5.0	---
*Phosphorus(chronic) = applies only above the facilities listed at 32.5(4).		E. Coli (per 100 mL)	---	630	Chromium III	---	TVS
*Uranium(acute) = See 32.5(3) for details.		Inorganic (mg/L)			Chromium III(T)	50	---
*Uranium(chronic) = See 32.5(3) for details.		acute	chronic		Chromium VI	TVS	TVS
		Ammonia	TVS	TVS	Copper	TVS	TVS
		Boron	---	0.75	Iron	---	WS
		Chloride	---	250	Iron(T)	---	1000
		Chlorine	0.019	0.011	Lead	TVS	TVS
		Cyanide	0.005	---	Lead(T)	50	---
		Nitrate	10	---	Manganese	TVS	TVS/WS
		Nitrite	---	0.5	Mercury(T)	---	0.01
		Phosphorus	---	0-17TVS*	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

2a. All tributaries to the Arkansas River, including wetlands, from the Colorado Canal headgate to the Colorado/Kansas border except for specific listings in segments 2b, 2c, 2d, 3a, through 9b, and Middle Arkansas Basin listings.

COARLA02A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Recreation N	acute		chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	5.0	Beryllium(T)	---	4.0
Qualifiers:		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
Other: *Phosphorus(chronic) = applies only above the facilities listed at 32.5(4). *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (mg/m²)	---	---	Cadmium(T)	5.0	---
		E. Coli (per 100 mL)	---	630	Chromium III	---	TVS
		Inorganic (mg/L)			Chromium III(T)	50	---
		acute		chronic	Chromium VI	TVS	TVS
		Ammonia	TVS	TVS	Copper	TVS	TVS
		Boron	---	0.75	Iron	---	WS
		Chloride	---	250	Iron(T)	---	1000
		Chlorine	0.019	0.011	Lead	TVS	TVS
		Cyanide	0.005	---	Lead(T)	50	---
		Nitrate	10	---	Manganese	TVS	TVS/WS
		Nitrite	---	0.5	Mercury(T)	---	0.01
		Phosphorus	---	0.47TVS*	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Arkansas River Basin

2b. King Arroyo.							
COARLA02B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic(T)	---	200
	Recreation E	acute	chronic		Cadmium(T)	---	50
Qualifiers:		D.O. (mg/L)	---	5.0	Chromium III	TVS	TVS
Livestock Watering Only		pH	6.5 - 9.0	---	Chromium III(T)	---	1000
Other: *chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 32.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 32.5(4). *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (mg/m ²)	---	150*TVS	Chromium VI(T)	---	1000
		E. Coli (per 100 mL)	---	126	Copper(T)	---	500
		Inorganic (mg/L)			Iron	---	---
		acute	chronic		Lead(T)	---	100
		Ammonia	---	---	Manganese	---	---
		Boron	---	5.0	Mercury(T)	---	10
		Chloride	---	---	Molybdenum(T)	---	150
		Chlorine	---	---	Nickel	---	---
		Cyanide	0.2	---	Selenium(T)	---	50
		Nitrate	100	---	Silver	---	---
		Nitrite	10	---	Uranium	varies*	varies*
		Phosphorus	---	0.47TVS*	Zinc(T)	---	25000
		Sulfate	---	---			
		Sulfide	---	---			
		2c. Mainstem of Wildhorse Creek, including all tributaries, from a point immediately below US Highway 287 in Kit Carson to the confluence with Big Sandy Creek.					
COARLA02C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic(T)	---	100
	Recreation N	acute	chronic		Beryllium(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium(T)	---	50
Other: *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m ²)	---	---	Chromium III(T)	---	100
		E. Coli (per 100 mL)	---	630	Chromium VI(T)	---	100
		Inorganic (mg/L)			Copper(T)	---	200
		acute	chronic		Iron	---	---
		Ammonia	---	---	Lead(T)	---	100
		Boron	---	0.75	Manganese	---	---
		Chloride	---	---	Mercury(T)	---	---
		Chlorine	---	---	Molybdenum(T)	---	150
		Cyanide	0.2	---	Nickel(T)	---	200
		Nitrate	100	---	Selenium(T)	---	50
		Nitrite	10	---	Silver	---	---
		Phosphorus	---	0.47TVS	Uranium	varies*	varies*
		Sulfate	---	---	Zinc(T)	---	2000
		Sulfide	---	---			

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Arkansas River Basin

2d. Unnamed tributary from the source north of county road 350 (37.304487, -104.29068) to the confluence with the Purgatoire.								
COARLA02D	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
UP	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---	
	Recreation N	acute	chronic		Arsenic(T)	---	100	
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
Other: *Phosphorus(chronic) = applies only above the facilities listed at 32.5(4). *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS	
		chlorophyll a (mg/m²)	---	---	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	---	250	Mercury(T)	---	0.01	
		Chlorine	0.019	0.011	Molybdenum(T)	---	150	
		Cyanide	0.005	---	Nickel	TVS	TVS	
		Nitrate	100	---	Selenium	TVS	TVS	
		Nitrite	---	0.5	Silver	TVS	TVS	
		Phosphorus	---	0.47TVS*	Uranium	varies*	varies*	
		Sulfate	---	---	Zinc	TVS	TVS	
		Sulfide	---	0.002				

3a. Mainstem of the Apishapa River, including all tributaries and wetlands, from the source to I-25, except for specific listings in Middle Arkansas segment 1 and Lower Arkansas segments 3b and 3c.								
COARLA03A	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---	
	Recreation E	acute	chronic		Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	150TVS	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	---	0.44TVS	Nickel(T)	---	100	
		Sulfate	---	WS	Selenium	TVS	TVS	
		Sulfide	---	0.002	Silver	TVS	TVS(tr)	
			Uranium	varies*	varies*			
			Zinc	TVS	TVS			

3a. Mainstem of the Apishapa River, including all tributaries and wetlands, from the source to I-25, except for specific listings in Middle Arkansas segment 1 and Lower Arkansas segments 3b and 3c.							
COARLA03A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Arkansas River Basin

3b. Mainstem of West Torrino Canyon Creek, North Fork, Middle Fork and mainstem of Trujillo Creek, Mitotes Canyon Creek, Luis Canyon Creek, Wheeler Canyon Creek, Mauricio Canyon Creek, Daisy Canyon Creek, Adobe Canyon Creek, Gonzales Canyon Creek, Frio Canyon Creek, Borrego Canyon Creek, Munoz Canyon Creek, William Canyon Creek and Castro Canyon Creek, including all tributaries, from their sources to their confluences with the Apishapa River, except for the specific listings in Middle Arkansas segment 1.

COARLA03B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation N	acute		chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other: *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (mg/m ²)	---	---	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	630	Chromium VI(T)	50	---
		Inorganic (mg/L)			Copper(T)	200	---
		acute		chronic	Iron	---	WS
		Ammonia	---	0.5	Lead(T)	50	---
		Boron	---	0.75	Manganese	---	WS
		Chloride	---	250	Mercury(T)	2.0	---
		Chlorine	---	---	Molybdenum(T)	---	150
		Cyanide	0.2	---	Nickel(T)	---	100
		Nitrate	10	---	Selenium(T)	---	20
		Nitrite	1.0	---	Silver(T)	100	---
		Phosphorus	---	0.17TVS	Uranium	varies*	varies*
		Sulfate	---	WS	Zinc(T)	---	2000
		Sulfide	---	0.05			

3c. The mainstem of Jarosa Canyon Creek including all tributaries from the source to the confluence with the Apishapa River.

COARLA03C	Classifications	Physical and Biological		Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02-10	^A
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
				Copper	TVS	TVS	
		Inorganic (mg/L)		Iron	---	WS	
				Iron(T)	---	1000	
				Ammonia	TVS	TVS	
				Boron	---	0.75	
				Chloride	---	250	
				Chlorine	0.019	0.011	
				Cyanide	0.005	---	
				Nitrate	10	---	
				Nitrite	---	0.05	
				Phosphorus	---	0.14 TVS	
				Sulfate	---	WS	
				Sulfide	---	0.002	
							Uranium
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Arkansas River Basin

4a. Mainstem of the Apishapa River from I-25 to the confluence with the Arkansas River. Mainstem of Timpas Creek from the source to the Arkansas River.							
COARLA04A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (mg/m²)	---	150 TVS	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)	---	1805
		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.47 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
4b. Mainstem of Lorencito Canyon, from the source to the confluence with the Purgatoire River.							
COARLA04B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	100	
		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
Other: *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (mg/m²)	---	150 TVS	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	---	4.0	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	---	0.5	Silver	TVS	TVS
		Phosphorus	---	0.47 TVS	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Arkansas River Basin

5a. Mainstem of the North Fork of the Purgatoire River, including all tributaries and wetlands, from the source to a point immediately below the confluence with Guajatoyah Creek; mainstem of the Middle Fork of the Purgatoire River, including all tributaries and wetlands, from the source to the Bar Ni Ranch Road at Stonewall Gap; Mainstem of the South Fork of the Purgatoire River, including all tributaries and wetlands, from the source to Tercio.

COARLA05A	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	Arsenic	340
	Recreation E			Arsenic(T)	---
	Water Supply			Cadmium	TVS
Qualifiers:		D.O. (mg/L)	---	Cadmium(T)	5.0
Other:		D.O. (spawning)	---	Chromium III	---
Temporary Modification(s):		pH	6.5 - 9.0	Chromium III(T)	50
Arsenic(chronic) = hybrid		chlorophyll a (mg/m ²)	---	Chromium VI	TVS
Expiration Date of 12/31/2024		E. Coli (per 100 mL)	---	Copper	TVS
*Uranium(acute) = See 32.5(3) for details.		Inorganic (mg/L)		Iron	---
*Uranium(chronic) = See 32.5(3) for details.				Iron(T)	---
				Lead	TVS
				Lead(T)	50
				Manganese	TVS
				Mercury(T)	---
				Molybdenum(T)	---
				Nickel	TVS
				Nickel(T)	---
				Selenium	TVS
				Silver	TVS
				Uranium	varies*
				Zinc	TVS

5b. Mainstem of the North Fork of the Purgatoire River, including all tributaries and wetlands, from a point immediately below the confluence with Guajatoyah Creek to the confluence with the Purgatoire River. Mainstem of the Middle Fork of the Purgatoire River from the Bar Ni Ranch Road at Stonewall Gap to the confluence with the North Fork of the Purgatoire River. Mainstem of the South Fork of the Purgatoire River from Tercio to the confluence with the Purgatoire River. Mainstem of the Purgatoire River to Trinidad Lake. Mainstem of Long Canyon Creek from the source to Trinidad Reservoir.

COARLA05B	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	Arsenic	340
	Recreation E			Arsenic(T)	---
	Water Supply			Cadmium	TVS
Qualifiers:		D.O. (mg/L)	---	Cadmium(T)	5.0
Other:		D.O. (spawning)	---	Chromium III	---
Temporary Modification(s):		pH	6.5 - 9.0	Chromium III(T)	50
Arsenic(chronic) = hybrid		chlorophyll a (mg/m ²)	---	Chromium VI	TVS
Expiration Date of 12/31/2024		E. Coli (per 100 mL)	---	Copper	TVS
*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 32.5(4).		Inorganic (mg/L)		Iron	---
*Phosphorus(chronic) = applies only above the facilities listed at 32.5(4).				Iron(T)	---
*Uranium(acute) = See 32.5(3) for details.				Lead	TVS
*Uranium(chronic) = See 32.5(3) for details.				Lead(T)	50
				Manganese	TVS
				Mercury(T)	---
				Molybdenum(T)	---
				Nickel	TVS
				Nickel(T)	---
				Selenium	TVS
				Silver	TVS
				Uranium	varies*
				Zinc	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Arkansas River Basin

5c. Purgatoire mainstem from Trinidad Lake outlet works to I-25. Mainstem of Raton Creek from the source to the confluence of Purgatoire River.

COARLA05C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	450*TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 32.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 32.5(4). *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	2.0	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

6a.All tributaries to the Purgatoire River, including all wetlands, from the source to Interstate 25, except for specific listings in segments 4b, 5a, 5b, 5c and 6b.

COARLA06A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other: *chlorophyll a (mg/m³)(chronic) = applies only above the facilities listed at 32.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 32.5(4). *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m²)	---	150*TVS	Chromium VI	TVS	TVS
		E. Coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
		acute	chronic		Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	4.0	Molybdenum(T)	---	150
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.5	Zinc	TVS	TVS
		Phosphorus	---	0.11TVS*			
		Sulfate	---	---			
		Sulfide	---	0.002			

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Arkansas River Basin

6b. Wet Canyon and all tributaries, including wetlands, from the source to the confluence with the Purgatoire River.								
COARLA06B	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
UP	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic(T)	---	0.02-10 ^A	
	Recreation E	acute	chronic	Beryllium(T)	---	4.0		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	---TVS---	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
					Iron(T)	---	1000	
					Lead	TVS	TVS	
					Lead(T)	50	---	
					Manganese	TVS	TVS/WS	
					Mercury(T)	---	0.01	
					Molybdenum(T)	---	150	
					Nickel	TVS	TVS	
					Nickel(T)	---	100	
					Selenium	TVS	TVS	
					Silver	TVS	TVS	
			Uranium	varies*	varies*			
			Zinc	TVS	TVS			
7. Mainstem of the Purgatoire River from Interstate 25 to the confluence with the Arkansas River.								
COARLA07	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---	
	Water Supply	acute	chronic	Arsenic(T)	---	0.02		
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (mg/m²)	---	---TVS---	Chromium III	---	TVS	
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---	
		Inorganic (mg/L)			Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
					Iron	---	WS	
					Iron(T)	---	1000	
					Lead	TVS	TVS	
					Lead(T)	50	---	
					Manganese	TVS	TVS/WS	
					Mercury(T)	---	0.01	
					Molybdenum(T)	---	150	
					Nickel	TVS	TVS	
					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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Arkansas River Basin

8. Mainstem of Ricardo Creek, including all tributaries and wetlands, which are within Colorado (Costilla and Las Animas Counties), mainstem of the Canadian River, including all tributaries, wetlands, lakes and reservoirs.

COARLA08	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

9a. Mainstems of Adobe, Buffalo, Cheyenne, Clay, Gageby, Horse, Two Butte, Wildhorse and Wolf Creeks from their sources to their confluences with the Arkansas River. Mainstems of Chacuacho Creek, San Francisco Creek, Trinchera Creek and Van Bremer Arroyo from their sources to their confluences with the Purgatoire River. Mainstem of Willow Creek from Highway 287 to the confluence with the Arkansas River. Mainstem of Big Sandy Creek from the source to the El Paso/Elbert county line. Mainstem of South Rush Creek from the source to the confluence with Rush Creek. Mainstem of Middle Rush Creek from the source to the confluence with North Rush Creek. North Rush Creek from the source to the confluence with South Rush Creek. Mainstem of Rush Creek to the Lincoln County Line. Mainstem of Antelope Creek from the source to the confluence with Rush Creek; the West May Valley drain from the Fort Lyon Canal to the confluence with the Arkansas River.

COARLA09A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	150 TVS	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute		chronic	Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 32.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.47 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Arkansas River Basin

9b. Mainstem of Apache Creek from the source to the confluence with the North Rush Creek. Mainstem of Breckenridge Creek from the source to the confluence with Horse Creek. Mainstem of Little Horse Creek from the source to the confluence with Horse Creek. Mainstem of Bob Creek from the source to Meredith Reservoir. Mainstem of Big Sandy Creek within Prowers County. Mainstem of Rule Creek from the Bent/Las Animas county line to John Martin Reservoir. Mainstem of Muddy Creek from the south boundary of the Setchfield State Wildlife Area to the confluence with Rule Creek. Mainstem of Caddoa Creek from CC Road to the confluence with the Arkansas River. Mainstem of Cat Creek from the source to the confluence with Clay Creek. Mainstem of Mustang Creek from the source to the confluence with Apishapa River. Mainstem of Chicosa Creek from the source to the Arkansas River. Mainstem of Smith Canyon from the Otero/Las Animas county line to the confluence with the Purgatoire River. Mainstem of Mud Creek from V Road to the confluence with the Arkansas River. Mainstems of Frijole Creek and Luning Arroyo from their sources to their confluences with the Purgatoire River. Mainstem of Blackwell Arroyo from its source to the confluence with Luning Arroyo. Mainstem of San Isidro Creek from the source to the confluence with San Francisco Creek.

COARLA09B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Water + Fish Standards Apply		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III	---	TVS
Other:		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Temporary Modification(s):		Inorganic (mg/L)			Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid		acute		chronic	Copper	TVS	TVS
Expiration Date of 12/31/2024		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(acute) = See 32.5(3) for details.		Boron	---	0.75	Iron(T)	---	1000
*Uranium(chronic) = See 32.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.17 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

10. Two Buttes Reservoir, Two Buttes Pond, Hasty Lake, Holbrook Reservoir, Burchfield Lake, Nee-Skah (Queens) Reservoir, Adobe Creek Reservoir, Neeso Pah Reservoir, Nee Noshe Reservoir; Nee Gronda Reservoir.

COARLA10	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<u>Public Swim Beach*</u>		chlorophyll a (mg/m ² ug/L)	---	--- TVS	Chromium III	---	TVS
Other:		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
*Public Swim Beach applies to Lake Hasty.		Inorganic (mg/L)			Chromium VI	TVS	TVS
*Nitrogen(chronic) = applies only to Public Swim Beach		acute		chronic	Copper	TVS	TVS
*Phosphorus(chronic) = applies only to Public Swim Beach		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(acute) = See 32.5(3) for details.		Boron	---	0.75	Iron(T)	---	1000
*Uranium(chronic) = See 32.5(3) for details.		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)	---	150
		<u>Nitrogen</u>	---	--- TVS*	Nickel	TVS	TVS
		Phosphorus	---	--- TVS*	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Arkansas River Basin

11. John Martin Reservoir.							
COARLA11	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²ug/L)	---	---TVS -	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024			acute	chronic	Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 32.5(3) for details.		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
		Nitrate	10	---	Mercury(T)	---	0.01
		Nitrite	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

12. Lake Henry, Lake Meredith.							
COARLA12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		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 32.5(3) for details.		chlorophyll a (mg/m²ug/L)	---	---TVS -	Chromium III(T)	---	100
*Uranium(chronic) = See 32.5(3) for details.		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	---	0.5	Silver	TVS	TVS
		Phosphorus	---	---	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

12. Lake Henry, Lake Meredith.							
COARLA12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (<u>mg/m²ug/L</u>)	---	TVS	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	---	0.5	Silver	TVS	TVS
		Phosphorus	---	---	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Arkansas River Basin

13. American Crystal Reservoir, Chancellor Ponds, Horse Creek Reservoir, Hugo Ponds, Jim Davis Pond, John Robertson Ponds, Karval Lake, Kinney Lake, Kissel Pond, La Junta Kids Pond, Las Animas Kids Pond, Mayhem Pond, Merit Lake, Olney Springs Pond, Otero Pond, Pursley Ponds, Ranch Reservoir, Reynolds Gravel Pit, Pyan Ponds, Thurston Reservoir, Turks Pond, Ramah Reservoir.

COARLA13	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E	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
		chlorophyll a (mg/m ³ ug/L)	---	TVS	Chromium III(T)	---	100
*Uranium(acute) = See 32.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(chronic) = See 32.5(3) for details.		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	---	0.5	Silver	TVS	TVS
		Phosphorus	---	---	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

14. All lakes and reservoirs tributary to the Apishapa River from the source to I-25, except for specific listings in Middle Arkansas segment 19.

COARLA14	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		Inorganic (mg/L)			Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		acute		chronic	Iron	---	WS
*Uranium(chronic) = See 32.5(3) for details.		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
		Nitrogen	---	TVS	Nickel(T)	---	100
		Phosphorus	---	0.025*TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Arkansas River Basin

15. All lakes and reservoirs tributary to the mainstem of the North Fork of the Purgatoire River from the source to a point immediately below the confluence with Guajatoyah Creek. All lakes and reservoirs tributary to the Middle Fork of the Purgatoire River from the source to the USGS gage at Stonewall. Mainstem of the South Fork of the Purgatoire River, from the source to Tercio. Monument Lake, North Lake, Trinidad Lake, Long Canyon Reservoir and Lake Dorothy.

COARLA15	Classifications	Physical and Biological		Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	Temperature °C	CLL *	CLL *	Arsenic(T)	---	0.02
	Water Supply				Cadmium	TVS	TVS
	DUWS*				Cadmium(T)	5.0	---
Qualifiers:		D.O. (mg/L)	---	6.0	Chromium III	---	TVS
Other:		D.O. (spawning)	---	7.0	Chromium III(T)	50	---
<div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Classification: DUWS Applies only applies to Monument Lake and North Lake.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 32.5(3) for details.</div> <div>*Uranium(chronic) = See 32.5(3) for details.</div> <div>*Temperature = Trinidad Reservoir (CLL)</div>		pH	6.5 - 9.0	---	Chromium VI	TVS	TVS
		chlorophyll a (ug/L)	---	8*DUWS	Copper	TVS	TVS
		chlorophyll a (ug/L)	---	TVS	Iron	---	WS
		E. Coli (per 100 mL)	---	126	Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
			acute	chronic	Lead(T)	50	---
		Ammonia	TVS	TVS	Manganese	TVS	TVS/WS
		Boron	---	0.75	Mercury(T)	---	0.01
		Chloride	---	250	Molybdenum(T)	---	150
		Chlorine	0.019	0.011	Nickel	TVS	TVS
		Cyanide	0.005	---	Nickel(T)	---	100
		Nitrate	10	---	Selenium	TVS	TVS
		Nitrite	---	0.05	Silver	TVS	TVS(tr)
		Nitrogen	---	TVS	Uranium	varies*	varies*
		Phosphorus	---	0.025*TVS	Zinc	TVS	TVS
		Sulfate	---	WS			
		Sulfide	---	0.002			

16. All lakes and reservoirs tributary to the Purgatoire River from the source to I-25, except for the specific listings in segment 15 and 17.

COARLA16	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture			DM	MWAT		
UP	Aq Life Cold 2	Temperature °C	CL	CL	Arsenic(T)	---	100
	Recreation E		acute	chronic	Beryllium(T)	---	100
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium(T)	---	10
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (ug/L)	---	8*TVS	Chromium VI(T)	---	100
		E. Coli (per 100 mL)	---	126	Copper(T)	---	200
					Iron	---	---
		Inorganic (mg/L)			Lead(T)	---	100
			acute	chronic	Manganese	---	---
		Ammonia	---	---	Mercury(T)	---	---
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	---	Nickel(T)	---	200
		Chlorine	---	---	Selenium(T)	---	20
		Cyanide	0.2	---	Silver	---	---
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	10	---	Zinc(T)	---	2000
		Nitrogen	---	TVS			
		Phosphorus	---	0.025*TVS			
		Sulfate	---	---			
Sulfide	---	---					

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Arkansas River Basin

17. All lakes and reservoirs tributary to Wet Canyon, from the source to the confluence with the Purgatoire River.						
COARLA17	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Aq Life Cold 2	CL	CL	Arsenic(T)	---	0.02-10 ^A
	Recreation E	acute	chronic	Beryllium(T)	---	4.0
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium(T)	5.0
Qualifiers:		D.O. (spawning)	---	7.0	Chromium III	---
Other:		pH	6.5 - 9.0	---	Chromium III(T)	---
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (ug/L)	---	8*TVS	Chromium VI(T)	50
		E. Coli (per 100 mL)	---	126	Copper(T)	---
		Inorganic (mg/L)		---	Iron	---
		acute	chronic	Lead(T)	50	100
		Ammonia	---	---	Manganese	---
		Boron	---	0.75	Mercury(T)	2.0
		Chloride	---	250	Molybdenum(T)	---
		Chlorine	---	---	Nickel(T)	---
		Cyanide	0.2	---	Nickel(T)	---
		Nitrate	10	---	Selenium(T)	---
		Nitrite	---	0.05	Silver(T)	100
		Nitrogen	---	TVS	Uranium	varies*
		Phosphorus	---	0.025*TVS	Zinc(T)	---
		Sulfate	---	WS		2000
		Sulfide	---	0.05		
18. All lakes and reservoirs tributary to Ricardo Creek, which are within Colorado (Costilla and Las Animas Counties). All lakes and reservoirs tributary to the Canadian River.						
COARLA18	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		---	Copper	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Nitrogen	---	TVS	Nickel(T)	---
		Phosphorus	---	0.025*TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Arkansas River Basin

19. All lakes and reservoirs tributary to the Arkansas River, except for specific listings in segments 10-18 and Middle Arkansas Basin segments 19-28.						
COARLA19	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT	acute	chronic
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340
	Recreation E		acute	chronic	Arsenic(T)	---
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Other:		chlorophyll a (ug/L)	---	20*TVS	Chromium III	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS
Expiration Date of 12/31/2024			acute	chronic	Copper	TVS
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		Ammonia	TVS	TVS	Iron	---
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		Boron	---	0.75	Iron(T)	---
*Uranium(acute) = See 32.5(3) for details.		Chloride	---	250	Lead	TVS
*Uranium(chronic) = See 32.5(3) for details.		Chlorine	0.019	0.011	Lead(T)	50
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	---	0.5	Molybdenum(T)	---
		Nitrogen	---	TVS	Nickel	TVS
		Phosphorus	---	0.083*TVS	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
					Uranium	varies*
					Zinc	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Cimarron River Basin

1. Mainstem of the Cimarron River, including all tributaries and wetlands, in Las Animas, Baca, and Prowers Counties, except for the specific listing in segment 2.							
COARCI01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic(T)	---	100
	Recreation N	acute	chronic		Beryllium(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium(T)	---	10
Other: *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m ²)	---	---	Chromium III(T)	---	100
		E. Coli (per 100 mL)	---	630	Chromium VI(T)	---	100
		Inorganic (mg/L)			Copper(T)	---	200
			acute	chronic	Iron	---	---
		Ammonia	---	---	Lead(T)	---	100
		Boron	---	0.75	Manganese	---	---
		Chloride	---	---	Mercury(T)	---	---
		Chlorine	---	---	Molybdenum(T)	---	150
		Cyanide	0.2	---	Nickel(T)	---	200
		Nitrate	100	---	Selenium(T)	---	20
		Nitrite	10	---	Silver	---	---
		Phosphorus	---	0.47TVS	Uranium	varies*	varies*
		Sulfate	---	---	Zinc(T)	---	2000
		Sulfide	---	---			
2. Mainstem of North Carrizo Creek from the source to the Colorado/Oklahoma state line; mainstems of East and West Carrizo Creek, to the confluence with North Carrizo Creek; mainstems of Cottonwood Creek and Tecolote Creek to the confluence with West Carrizo Creek, Fitzler Pond.							
COARCI02	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
UP	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m ²)	---	450TVS	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	---	0.5	Silver	TVS	TVS
		Phosphorus	---	0.47TVS	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Cimarron River Basin

3. All lakes and reservoirs tributary to the Cimarron River.						
COARCI03	Classifications	Physical and Biological			Metals (ug/L)	
Designation			DM	MWAT	acute	chronic
UP	Recreation E					
	Agriculture	Temperature °C	WL	WL	Arsenic	340
	Aq Life Warm 2		acute	chronic	Arsenic(T)	7.6
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS
Fish Ingestion Standards Apply		pH	6.5 - 9.0	---	Chromium III	TVS
Other:		chlorophyll a (ug/L)	---	20*TVS	Chromium III(T)	100
<p>*chlorophyll-a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Uranium(acute) = See 32.5(3) for details.</p> <p>*Uranium(chronic) = See 32.5(3) for details.</p>		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)			Copper	TVS
			acute	chronic	Iron(T)	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Manganese	TVS
		Chloride	---	---	Mercury(T)	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	150
		Cyanide	0.005	---	Nickel	TVS
		Nitrate	100	---	Selenium	TVS
		Nitrite	---	0.5	Silver	TVS
		Nitrogen	---	TVS	Uranium	varies*
		Phosphorus	---	0.083*TVS	Zinc	TVS
		Sulfate	---	---		
		Sulfide	---	0.002		

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 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) *Reserved.*
- (C) *Reserved.*

DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Water Quality Control Commission

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

5 CCR 1002-33

33.1 AUTHORITY

These regulations are promulgated pursuant to section 25-8-101 et seq. C.R.S., as amended, and in particular, 25-8-203 and 25-8-204.

33.2 PURPOSE

These regulations establish classifications and numeric standards for the Colorado River, the Yampa River, and the North Platte River, including all tributaries and standing bodies of water as indicated in section 33.6. The classifications identify the actual beneficial uses of the water. The numeric standards are assigned to determine the allowable concentrations of various parameters. Discharge permits will be issued by the Water Quality Control Division to comply with basic, narrative, and numeric standards and control regulations so that all discharges to waters of the state protect the classified uses. It is intended that these and all other stream classifications and numeric standards be used in conjunction with and be an integral part of Regulation No. 31 Basic Standards and Methodologies for Surface Water.

33.3 INTRODUCTION

These regulations and tables present the classifications and numeric standards assigned to stream segments listed in the attached tables (See Appendix 33-1). As additional stream segments are classified and numeric standards for designated parameters are assigned for this drainage system, they will be added to or replace the numeric standards in the tables in Appendix 33-1. Any additions or revisions of classifications or numeric standards can be accomplished only after public hearing by the Commission and proper consideration of evidence and testimony as specified by the statute and the Basic Standards and Methodologies for Surface Water.

33.4 DEFINITIONS

See the Colorado Water Quality Control Act and the codified water quality regulations for definitions.

33.5 BASIC STANDARDS

(1) Temperature

All waters of Region 12 are subject to the following standard for temperature. (Discharges regulated by permits, which are within the permit limitations, shall not be subject to enforcement proceedings under this standard). Temperature shall maintain a normal pattern of diurnal and seasonal fluctuations with no abrupt changes and shall have no increase in temperature of a magnitude, rate, and duration deemed deleterious to the resident aquatic life. This standard shall not be interpreted or applied in a manner inconsistent with section 25-8-104, C.R.S.

(2) Qualifiers

See Basic Standards and Methodologies for Surface Water for a listing of organic standards at 31.11 Table B and metal standards found at 31.16 Table III. The column in the tables headed "Water Fish" are presumptively applied to all Aquatic Life class 1 streams and are applied to Aquatic Life class 2 streams on a case-by-case basis as shown in Appendix 33-1. The column in the tables at 31.11 headed "Fish Ingestion" is presumptively applied to all Aquatic Life class 1 streams which do not have a water supply classification, and are applied to Aquatic Life class 2 streams which do not have a water supply classification, on a case-by-case basis as shown in Appendix 33-1.

(3) Uranium

- (a) All waters of the Upper Colorado River Basin, are subject to the following basic standard for uranium, unless otherwise specified by a water quality standard applicable to a particular segment. However, discharges of uranium regulated by permits which are within these permit limitations shall not be a basis for enforcement proceedings under this basic standard.
- (b) Uranium level in surface waters shall be maintained at the lowest practicable level.
- (c) In no case shall uranium levels in waters assigned a water supply classification be increased by any cause attributable to municipal, industrial, or agricultural discharges so as to exceed 16.8-30 µg/L or naturally-occurring concentrations (as determined by the State of Colorado), whichever is greater.
 - (i) The first number in the 16.8-30 µg/L 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.

(4) Nutrients

See Basic Standards and Methodologies for Surface Water at 31.17 for a listing of chlorophyll a, total nitrogen, and total phosphorus standards for lakes and reservoirs (Table V) and rivers and streams (Table VI). As described in 31.17(2), total nitrogen and total phosphorus standards will be considered for adoption in phases.

Prior to December 31, ~~2022 for chlorophyll a and prior to December 31, 2027 for, total nitrogen and total phosphorus, interim nutrient~~ values will be considered for adoption only in the limited circumstances defined at 31.17(e2)(a)(i) and (f). ~~These~~ For lakes and reservoirs, these circumstances include ~~headwaters, waterbodies upstream of certain domestic and non-domestic wastewater treatment facilities (31.17(2)(a)(i)(A)), waterbodies with a Direct Use Water Supply (DUWS) Lakes and Reservoirs, sub-classification (31.17(2)(a)(i)(B)), waterbodies with public swim beaches (31.17(2)(a)(i)(C)), and other special circumstances determined by the Commission.~~ headwaters, waterbodies upstream of certain domestic and non-domestic wastewater treatment facilities (31.17(2)(a)(i)(A)), waterbodies with a Direct Use Water Supply (DUWS) Lakes and Reservoirs, sub-classification (31.17(2)(a)(i)(B)), waterbodies with public swim beaches (31.17(2)(a)(i)(C)), and other special circumstances determined by the Commission. ~~Additionally, prior to December 31, 2027, only total phosphorus and chlorophyll a will be~~

~~considered for adoption. After December 31, 2027, total nitrogen will be considered for adoption per the (31.17(2)(a)(i)(D)). For rivers and streams, these circumstances outlined in 31.17(g).~~

~~Prior to December 31, 2027, nutrient criteria will be adopted for headwaters on a segment by segment basis for the Upper Colorado and North Platte River Basins. Moreover, pursuant to 31.17(e) nutrient standards will only be adopted for waters upstream of all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012, and any non-domestic include waterbodies upstream of certain domestic and non-domestic wastewater treatment facilities subject to Regulation 85 effluent limits and discharging prior to May 31, 2012. The (31.17(2)(a)(ii)(A)) and other special circumstances determined by the Commission (31.17(2)(a)(ii)(B)).~~

Pursuant to 31.17(2)(a)(i)(A) and 31.17(2)(a)(ii)(A), the following is a list of all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012, cooling tower discharges, and any non-domestic facilities subject to Regulation 85 effluent limits and discharging prior to May 31, 2012 in the Upper Colorado and North Platte River Basins:

Segment	Permittee	Facility name	Permit No.
COUCUC03	Colorado Dept of Transportation	Grizzly Creek Res Area WWTF	COG588067
COUCUC03	Rock Gardens MHP	Rock Gardens MHP & Campground	COG588083
COUCUC03	Colorado Dept of Transportation	Hanging Lake Res Area WWTF	COG588076
COUCUC03	Colorado Dept of Transportation	Bair Ranch Rest Area	COG588075
COUCUC03	Hermes Group	Two Rivers Village Metro Dist WWTF	COG588070
COUCUC03	Roundup River Ranch	Roundup River Ranch WWTF	COG588116
COUCUC03	Hot Sulphur Springs Town of	Hot Sulphur Springs WWTF	COG588084
COUCUC03	Allegient Management	Ouray Ranch Homeowners Assn WWTF	COG588041
COUCUC06a	C Lazy U Ranch Holdings LLC % Triton Investment Co	C Lazy U Ranch, INC.	COG588072
COUCUC06b	Three Lakes Water and Sanitation District	Willow Creek Lagoons	CO0037681
COUCUC07e	Kremmling Sanitation District	Kremmling Sanitation Dist WWTF	CO0048437
COUCUC10a	Winter Park Water and Sanitation District	Winter Park WSD WWTF	CO0026051
COUCUC10a	Young Life Campaign Inc	Crooked Creek Ranch	CO0045411
COUCUC10a	Colorado Mountain Resort Investors LLC	Devil's Thumb Ranch	CO0046566
COUCUC10a	Tabernash Meadows WSD	Tabernash Meadows WSD WWTF	CO0045501
COUCUC10c	Fraser Town of	Upper Fraser Valley TP	CO0040142
COUCUC10c	Granby Sanitation District	Granby Sanitation District	CO0020699
COUCBL02a	Upper Blue Sanitation Dist	Iowa Hill Water Reclamation	CO0045420
COUCBL08	Dundee Realty USA LLC	Arapahoe Basin Ski Area	CO0023876
COUCBL13	Copper Mountain Consolidated Metro Dist	Copper Mtn Cons Metro District	CO0021598
COUCBL17	Silverthorne/Dillon Joint Sewer Authority	Blue River WWTF	CO0020826
COUCBL22	Frisco Sanitation District	Frisco Sanitation District WWTF	CO0020451
COUCBL22	Snake River WWTF	Summit County Snake River WWTP	CO0029955
COUCBL22	Upper Blue Sanitation District	Farmers Korner WWTF	CO0021539
COUCEA02	Red Cliff Town of	Red Cliff Town of WWTP	CO0021385
COUCEA08	Eagle River WSD	Vail WWTF	CO0021369
COUCEA09a	Eagle River Water & Sanitation Dist	Avon WWTP	CO0024431
COUCEA09a	Eagle River Water & San Dist	Edwards WWTF	CO0037311
COUCEA09b	Eagle Town of	Eagle Town of WWTP	CO0048241
COUCEA09b	Gypsum Town of	Gypsum Town of WWTF	CO0048830
COUCRF03a	Aspen Consolidated Sanitation District	Aspen Consolidated San District	CO0026387

Segment	Permittee	Facility name	Permit No.
COUCRF03a	Woody Creek Mobile HOA	Woody Creek Mobile Home Park	COG588103
COUCRF03a	Aspen Village Inc c/o Independence Environmental Services	Aspen Village, INC.	COG588085
COUCRF03a	Riversbend HOA	Riverbend Apartments	COG588066
COUCRF03a	Independence Environmental Services	Lazy Glen Homeowners Assoc.	COG588049
COUCRF03a	Basalt SD	Basalt Sanitation District	COG588063
COUCRF03a	Ranch at Roaring Fork c/o Independence Environmental Services	Ranch at Roaring Fork HOA	COG588051
COUCRF03a	Carbondale Town of	Carbondale Town of	COG588050
COUCRF03a	Roaring Fork Water and San District	Roaring Fork WSD WWTF	CO0044750
COUCRF03a	Spring Valley SD	Spring Valley SD WWTF	CO0046124
COUCRF03a	Oak Meadows Service Company	Oak Meadows WWTF	CO0045802
COUCRF03c	Sunlight Inc	Sunlight, INC.	CO0038598
COUCRF03c	Mid Valley Metro District	Mid Valley Metro Dist WWTF	COG588105
COUCRF03c	Blue Creek Ranch LLC	Blue Creek Ranch	COG588074
COUCRF03c	H Lazy F LLC	H Lazy F MHP WWTF	COG588035
COUCRF03c	El Rocko Mobile Home Park	El Rocko MHP	COG588029
COUCRF04	Snowmass WSD	Snowmass WSD	CO0023086
COUCRF08	Sopris Engineering LLC	Redstone Castle WWTF	COG588115
COUCRF08	Redstone WSD	Redstone WSD WWTF	CO0046370
COUCNP05b	Walden Town of	Walden Town of WWTF	CO0020788
COUCYA02a	Yampa Town of	Yampa WWTF	CO0030635
COUCYA02a	Routt County	Milner Community WWTF	CO0047449
COUCYA02c	Hayden Town of	Hayden Town WWTF	CO0040959
COUCYA02c	Steamboat Springs City of	Steamboat Springs, City of	CO0020834
COUCYA03	Whiteman School	Whiteman School	CO0031062
COUCYA04	Routt County Phippsburg/Dept of Envir Hlth	Routt CO for Phippsburg Comm WWTF	COG589026
COUCYA07	Oak Creek Town of	Oak Creek, Town of	CO0041106
COUCYA08	Steamboat Lake Water and Sanitation Dist	Steamboat Lake Water & Sanitation Dist WWTF	CO0035556
COUCYA22	Morrison Creek Metropolitan Water and Sanitation District	Morrison Creek Metro WWTF	CO0022969
COUCYA22	Steamboat Lake Water and Sanitation Dist	Steamboat Lake Water & Sanitation Dist WWTF	CO0035556

Prior to December 31, 2027:

- For segments located entirely above these facilities, ~~nutrient~~total nitrogen and total phosphorus standards apply to the entire segment.
- For segments with portions downstream of these facilities, ~~nutrient~~total nitrogen and total phosphorus standards only apply above these facilities, except where a waterbody has a DUWS sub-classification or public swim beach. A note was added to the total phosphorus and ~~chlorophyll a~~total nitrogen standards in these segments. The note references the table of qualified facilities at 33.5(4).
- For segments located entirely below these facilities, ~~nutrient~~total nitrogen and total phosphorus standards do not apply, except where a waterbody has a DUWS sub-classification or public swim beach.
- Additionally, for segments with portions downstream of these facilities or for segments located entirely below these facilities, total nitrogen and total phosphorus standards may apply where special circumstances have been identified by the Commission (31.17(2)(a)(i)(D) and 31.17(2)(a)(ii)(B)).

~~A note was added to the total phosphorus and chlorophyll a standards in lakes segments as nutrients standards apply only to lakes and reservoirs larger than 25 acres surface area.~~

33.6 TABLES

(1) Introduction

The numeric standards for various parameters in this regulation and in the tables in Appendix 33-1 were assigned by the Commission after a careful analysis of the data presented on actual stream conditions and on actual and potential water uses. For each parameter listed in the tables in Appendix 33-1, only the most stringent standard is shown. Additional, less stringent standards may apply to protect additional uses and can be found in the tables in Regulation No. 31.

Numeric standards are not assigned for all parameters listed in the tables in Regulation No. 31. If additional numeric standards are found to be needed during future periodic reviews, they can be assigned by following the proper hearing procedures.

(2) Abbreviations

(a) The following abbreviations are used in this regulation and in the tables in Appendix 33-1:

ac	=	acute (1-day)
°C	=	degrees Celsius
ch	=	chronic (30-day)
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
DM	=	daily maximum temperature
DUWS	=	direct use water supply
D.O.	=	dissolved oxygen
<i>E. coli</i>	=	<i>Escherichia coli</i>
mg/L	=	milligrams per liter
MWAT	=	maximum weekly average temperature
OW	=	outstanding waters
sc	=	sculpin
sp	=	spawning
SSE	=	site-specific equation
T	=	total recoverable
t	=	total
tr	=	trout
TVS	=	table value standard
µg/L	=	micrograms per liter
UP	=	use-protected
WL	=	warm lake temperature tier
WS	=	water supply
WS-I	=	warm stream temperature tier one
WS-II	=	warm stream temperature tier two
WS-III	=	warm stream temperature tier three

(b) In addition, the following abbreviations were used:

Iron (chronic)	=	WS
Manganese (chronic)	=	WS
Sulfate (chronic)	=	WS

These abbreviations mean: For all surface waters with an actual Water Supply use, the less restrictive of the following two options shall apply as numerical chronic standards, as specified in the Basic Standards and Methodologies at 31.16 Table II and III:

- (i) existing quality as of January 1, 2000; or
- (ii)
 - Iron = 300 µg/L (dissolved)
 - Manganese = 50 µg/L (dissolved)
 - Sulfate = 250 mg/L (dissolved)

For all surface waters with a “water supply” classification that are not in actual use as a water supply, no water supply standards are applied for iron, manganese or sulfate, unless the Commission determines as the result of a site-specific rulemaking hearing that such standards are appropriate.

(c) Temporary Modification for Water + Fish Chronic Arsenic Standard

- (i) The temporary modification for chronic arsenic standards applied to segments with an arsenic standard of 0.02 µg/L that has been set to protect the Water + Fish qualifier is listed in the Other column in Appendix 33-1 tables as As(ch)=hybrid.
- (ii) For discharges existing on or before 6/1/2013, the temporary modification is: As(ch)=current condition, expiring on 12/31/2024. Where a permit for an existing discharge is reissued or modified while the temporary modification is in effect, the division will include additional permit Terms and Conditions, which may include requirements for additional monitoring, source identification, and characterization of source control and treatment options for reducing arsenic concentrations in effluent.
- (iii) For new or increased discharges commencing on or after 6/1/2013, the temporary modification is: As(ch)=0.02-3.0 µg/L (total recoverable), expiring on 12/31/2024.
 - (a) The first number in the range is the health-based water quality standard previously adopted by the Commission for the segment.
 - (b) The second number in the range is a technology-based value established by the Commission for the purpose of this temporary modification.
 - (c) 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.

(3) Table Value Standards

In certain instances in the tables in Appendix 33-1, the designation “TVS” is used to indicate that for a particular parameter a “table value standard” has been adopted. This designation refers to numerical criteria set forth in the Basic Standards and Methodologies for Surface Water. The criteria for which the TVS are applicable are on the following table.

TABLE VALUE STANDARDS
(Concentrations in µg/L unless noted)

PARAMETER ⁽¹⁾	TABLE VALUE STANDARDS ⁽²⁾⁽³⁾					
Aluminum(T)	Acute = $e^{(1.3695 \ln(\text{hardness}) + 1.8308)}$ pH equal to or greater than 7.0 Chronic = $e^{(1.3695 \ln(\text{hardness}) - 0.1158)}$ pH less than 7.0 Chronic = $e^{(1.3695 \ln(\text{hardness}) - 0.1158)}$ or 87, whichever is more stringent					
Ammonia ⁽⁴⁾	Cold Water = (mg/L as N)Total $acute = \frac{0.275}{1 + 10^{7.204 - pH}} + \frac{39.0}{1 + 10^{pH - 7.204}}$ $chronic = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * MIN(2.85, 1.45 * 10^{0.028(25 - T)})$ Warm Water = (mg/L as N)Total $acute = \frac{0.411}{1 + 10^{7.204 - pH}} + \frac{58.4}{1 + 10^{pH - 7.204}}$ $chronic (Apr 1 - Aug 31) = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * MIN(2.85, 1.45 * 10^{0.028(25 - T)})$ $chronic (Sep 1 - Mar 31) = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * 1.45 * 10^{0.028 * (25 - MAX(T, 7))}$					
Cadmium	Acute(warm) ⁽⁵⁾ = $(1.136672 - (\ln(\text{hardness}) * 0.041838)) * e^{(0.9789 \ln(\text{hardness}) - 3.443)}$ Acute(cold) ⁽⁵⁾ = $(1.136672 - (\ln(\text{hardness}) * 0.041838)) * e^{(0.9789 \ln(\text{hardness}) - 3.866)}$ Chronic = $(1.101672 - (\ln(\text{hardness}) * 0.041838)) * e^{(0.7977 \ln(\text{hardness}) - 3.909)}$					
Chlorophyll a ⁽⁶⁾	See 31.17 TVS for Aquatic Life and/or Recreation and Direct Use Water Supply (DUWS).					
Chromium III ⁽⁷⁶⁾	Acute = $e^{(0.819 \ln(\text{hardness}) + 2.5736)}$ Chronic = $e^{(0.819 \ln(\text{hardness}) + 0.5340)}$					
Chromium VI ⁽⁷⁶⁾	Acute = 16 Chronic = 11					
Copper	Acute = $e^{(0.9422 \ln(\text{hardness}) - 1.7408)}$ Chronic = $e^{(0.8545 \ln(\text{hardness}) - 1.7428)}$					
Lead	Acute = $(1.46203 - (\ln(\text{hardness}) * 0.145712)) * e^{(1.273 \ln(\text{hardness}) - 1.46)}$ Chronic = $(1.46203 - (\ln(\text{hardness}) * 0.145712)) * e^{(1.273 \ln(\text{hardness}) - 4.705)}$					
Manganese	Acute = $e^{(0.3331 \ln(\text{hardness}) + 6.4676)}$ Chronic = $e^{(0.3331 \ln(\text{hardness}) + 5.8743)}$					
Nickel	Acute = $e^{(0.846 \ln(\text{hardness}) + 2.253)}$ Chronic = $e^{(0.846 \ln(\text{hardness}) + 0.0554)}$					
Nitrogen ⁽⁶⁾	See 31.17 TVS for Aquatic Life and/or Recreation.					
Phosphorus ⁽⁶⁾	See 31.17 TVS for Aquatic Life and/or Recreation.					
Selenium ⁽⁸⁷⁾	Acute = 18.4 Chronic = 4.6					
Silver	Acute = $0.5 * e^{(1.72 \ln(\text{hardness}) - 6.52)}$ Chronic = $e^{(1.72 \ln(\text{hardness}) - 9.06)}$ Chronic(Trout) = $e^{(1.72 \ln(\text{hardness}) - 10.51)}$					
Temperature	TEMPERATURE TIER	TIER CODE	SPECIES EXPECTED TO BE PRESENT	APPLICABLE MONTHS	TEMPERATURE STANDARD (°C)	
					(MWAT)	(DM)
	Cold Stream Tier I ⁽⁹⁸⁾	CS-I	brook trout, cutthroat trout	June – Sept.	17.0	21.7
				Oct. – May	9.0	13.0
	Cold Stream	CS-II	all other cold-water species	April – Oct.	18.3	24.3

	Tier II ⁽⁹⁸⁾			Nov. – March	9.0	13.0
	Cold Lake ⁽¹⁰⁹⁾	CL	brook trout, brown trout, cutthroat trout, lake trout, rainbow trout, Arctic grayling, sockeye salmon	April – Dec.	17.0	21.2
				Jan. – March	9.0	13.0
	Cold Large Lake (>100 acres surface area) ⁽¹⁰⁹⁾	CLL	brown trout, lake trout, rainbow trout	April – Dec.	18.3	24.2
				Jan. – March	9.0	13.0
	Warm Stream Tier I	WS-I	common shiner, Johnny darter, orangethroat darter, stonecat	March – Nov.	24.2	29.0
				Dec. – Feb.	12.1	24.6
	Warm Stream Tier II	WS-II	brook stickleback, central stoneroller, creek chub, longnose dace, Northern redbelly dace, finescale dace, razorback sucker, white sucker, mountain sucker	March – Nov.	27.5	28.6
				Dec. – Feb.	13.8	25.2
	Warm Stream Tier III	WS-III	all other warm-water species	March – Nov.	28.7	31.8
				Dec. – Feb.	14.3	24.9
Warm Lakes	WL	yellow perch, walleye, pumpkinseed, smallmouth bass, striped bass, white bass, largemouth bass, bluegill, spottail shiner, stonecat, northern pike, tiger muskellunge, black crappie, common carp, gizzard shad, sauger, white crappie, wiper	April – Dec.	26.2	29.3	
			Jan. – March	13.1	24.1	
Uranium	Acute= $e^{(1.1021 \cdot \ln(\text{hardness}) + 2.7088)}$ Chronic= $e^{(1.1021 \cdot \ln(\text{hardness}) + 2.2382)}$					
Zinc	Acute = $0.978 \cdot e^{(0.9094 \cdot \ln(\text{hardness}) + 0.9095)}$ Chronic = $0.986 \cdot e^{(0.9094 \cdot \ln(\text{hardness}) + 0.6235)}$ Where hardness is less than 102 mg/L CaCO ³ and mottled sculpin are expected to be present: Chronic (sculpin) = $e^{(2.140 \cdot \ln(\text{hardness}) - 5.084)}$					

TABLE VALUE STANDARDS - FOOTNOTES

- (1) Metals are stated as dissolved unless otherwise specified. Nitrogen and phosphorus standards are based upon the concentration of total nitrogen and total phosphorus.
- (2) Hardness values to be used in equations are in mg/L as calcium carbonate and shall be no greater than 400 mg/L, except for aluminum for which hardness shall be no greater than 220 mg/L. The hardness values used in calculating the appropriate metal standard should be based on the lower 95 percent confidence limit of the mean hardness value at the periodic low flow criteria as determined from a regression analysis of site-specific data. Where insufficient site-specific data exists to define the mean hardness value at the periodic low flow criteria, representative regional data shall be used to perform the regression analysis. Where a regression analysis is not appropriate, a site-specific method should be used. In calculating a hardness value, regression analyses should not be extrapolated past the point that data exist.
- (3) Both acute and chronic numbers adopted as stream standards are levels not to be exceeded more than once every three years on the average.
- (4) For acute conditions the default assumption is that salmonids could be present in cold water segments and should be protected, and that salmonids do not need to be protected in warm water segments. For chronic conditions, the default assumptions are that early

life stages could be present all year in cold water segments and should be protected. In warm water segments the default assumption is that early life stages are present and should be protected only from April 1 through August 31. These assumptions can be modified by the Commission on a site-specific basis where appropriate evidence is submitted. The "T" in the chronic equations stands for temperature.

- (5) The acute(warm) cadmium equation applies to segments classified as Aquatic Life Warm Class 1 or 2. The acute(cold) cadmium equation applies to segments classified as Aquatic Life Cold Class 1 or 2.
- (6) For lakes and reservoirs, the chlorophyll a, total nitrogen, and total phosphorus standards for Aquatic Life and Recreation apply only to lakes and reservoirs greater than 25 acres in surface area. The chlorophyll a standard for Direct Use Water Supply (DUWS) applies to lakes and reservoirs of any size.
- (67) Unless the stable forms of chromium in a waterbody have been characterized and shown not to be predominantly chromium VI, data reported as the measurement of all valence states of chromium combined should be treated as chromium VI. In addition, in no case can the sum of the concentrations of chromium III and chromium VI or data reported as the measurement of all valence states of chromium combined exceed the water supply standards of 50 µg/L chromium in those waters classified for domestic water use.
- (78) Selenium is a bioaccumulative metal and subject to a range of toxicity values depending upon numerous site-specific variables.
- (89) Mountain whitefish-based summer temperature criteria [16.9 (ch), 21.2 (ac)] apply when and where spawning and sensitive early life stages of this species are known to occur.
- (910) Lake trout-based summer temperature criteria [16.6 (ch), 22.4 (ac)] apply where appropriate and necessary to protect lake trout from thermal impacts.

(4) Site-Specific Standards, Assessment Locations and Assessment Criteria

(a) Upper Colorado River Segment 3: Temperature Standards

Upper Colorado from below the confluence with the Blue River to below the confluence with the Roaring Fork River.

DM = 21.2 and MWAT = 16.9 from 4/1 – 5/31

DM and MWAT = CS-II from 6/1 – 9/30

DM = 21.2 and MWAT = 16.9 from 10/1 – 10/31

DM and MWAT = CS-II from 11/1 – 3/31

All other locations DM and MWAT = CS-II

(b) Upper Colorado River Segment 7a: Temperature Standards

Canyon Creek

DM = 21.2 and MWAT = 16.9 from 4/1 – 5/31

DM and MWAT = CS-II from 6/1 – 9/30

DM = 21.2 and MWAT = 16.9 from 10/1 – 10/31

DM and MWAT = CS-II from 11/1 – 3/31

All other locations DM and MWAT = CS-II

(c) Upper Colorado Segment 12: Temperature Standards

All locations DM and MWAT = CL,CLL from 1/31 – 3/31

Grand Lake DM = 22.4 and MWAT = 16.6 from 4/1 – 12/31

Lake Granby DM = 22.4 and MWAT = 19.6 from 4/1– 12/31

Shadow Mountain Reservoir DM = CLL and MWAT = 19.3 from 4/1 – 12/31

All other locations DM and MWAT = CL,CLL from 4/1 – 12/31

(d) Upper Colorado Segment 13: Temperature Standards

All locations DM and MWAT = CL,CLL from 1/31 – 3/31

Wolford Mountain Reservoir DM = CLL and MWAT = 21.3 from 4/1 – 12/31

Williams Fork Reservoir DM = 22.4 and MWAT = 21.6 from 4/1-12/31

Deep Lake DM = CL and MWAT = 16.6 from 4/1 – 12/31

All other locations DM and MWAT = CL/CLL from 4/1 – 12/31

(e) Roaring Fork River Segment 3c: Temperature Standards

DM = 21.2 and MWAT = 16.9 from 4/1 – 5/31

DM and MWAT = CS-II from 6/1 – 9/30

DM = 21.2 and MWAT = 16.9 from 10/1 – 10/31

DM and MWAT = CS-II from 11/1 – 3/31

(f) North Platte River Segment 9: Temperature Standards

All locations DM and MWAT = CL, CLL from 1/1 – 1/31

Lower Big Creek Lake and Upper Big Creek Lake DM = 22.4 and MWAT = 16.6 from 4/1 -12/31

Agua Fria Lake DM = CL and MWAT = 16.6 from 4/1 – 12/31

South Delaney Lake DM = CLL and MWAT = 18.8 from 4/1 – 12/31

North Delaney Lake DM = CLL and MWAT = 20.1 from 4/1 – 12/31

Lake John DM = CLL and MWAT = 21.2 from 4/1 – 12/31

All other locations DM and MWAT= CL,CLL from 4/1-12/31

(g) Yampa River Segment 2b: Temperature Standards

Yampa River from above the confluence with Oak Creek to below the confluence with Dry Creek.

DM = 21.2 and MWAT = 16.9 from 4/1 – 5/31

DM and MWAT = CS-II from 6/1 – 9/30

DM = 21.2 and MWAT = 16.9 from 10/1 – 10/31

DM and MWAT = CS-II from 11/1 – 3/31

Yampa River below confluence with Dry Creek DM and MWAT = CS-II

(h) Yampa River Segment 13b: Iron Standards and Assessment Locations

Iron Standards:

Middle Creek:

March-June, Iron(chronic) = 2090(T), median of all data

July-February, Iron(chronic) = 1000(T)

Foidel Creek Iron(chronic) = 1000(T), median of all data

Iron Assessment Locations:

Middle Creek Site G-MC-2/Site 29: located at 40°23'48.3"N, 106°58'47.0"W.

Foidel Creek Site 14: located at 40°33'48.6"N, 107°08'63.5"W.

Foidel Creek Site 8: located at 40°21'55.7"N, W107°02'43.6"W.

Foidel Creek Site 900: located at 40°23'24.7"N, 106°59'40.9"W.

(i) Yampa River Segment 13b: Temperature Standards

Fish Creek

DM = 21.2 and MWAT = 16.9 from 4/1 – 5/31

DM and MWAT = WS-II from 6/1 – 9/30

DM = 21.2 and MWAT = 16.9 from 10/1 – 10/31

DM and MWAT = WS-II from 11/1 – 3/31

All other locations DM and MWAT = WS-II

(j) Yampa River Segment 13d: Iron Standards and Assessment Locations

Iron Standards:

March-April, Iron(chronic) = 3040(T), snowmelt season median values

May-February, Iron(chronic) = 1110(T), no-snowmelt season median values

Iron Assessment Locations:

Seneca II-W Stream Site 7 on Hubberson Gulch (WSH7): located in the middle reaches of Hubberson Gulch

Seneca II-W Flume Site 1 on Hubberson Gulch (WSHF1): located on Hubberson Gulch just upstream of its confluence with Dry Creek

Seneca II-W Stream Site 5 on Dry Creek (WSD5): located in the middle reaches of Dry Creek

(k) Yampa River Segment 13e: Iron Standards and Assessment Locations

Iron Standards:

Upper Sage Creek: Iron(chronic) = 1250(T), median of all data

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

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

Iron Assessment Locations:

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

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

(l) Yampa River Segment 13f: Temperature Standards

DM = 21.2 and MWAT = 16.9 from 4/1 – 5/31

DM and MWAT = CS-II from 6/1 – 9/30

DM = 21.2 and MWAT = 16.9 from 10/1 – 10/31

DM and MWAT = CS-II from 11/1 – 3/31

(m) Yampa River Segment 22: Temperature Standards

All locations DM and MWAT = CL, CLL from 1/1 – 3/31

Pearl Lake DM = CLL and MWAT = 19.6 from 4/1 – 12/31

Steamboat Reservoir DM = CLL and MWAT = 21.6 from 4/1 – 12/31

Stagecoach Reservoir DM = CLL and MWAT = 21.7 from 4/1 – 12/31

All other locations DM and MWAT = CL,CLL from 4/1-12/31

(5) Stream Classifications and Water Quality Standards Tables

The stream classifications and water quality standards tables in Appendix 33-1 are incorporated herein by reference.

The following is information regarding duration and measured form of standards in Appendix 33-1:

- (a) *E. coli* criteria and resulting standards for individual water segments, are established as indicators of the potential presence of pathogenic organisms. Standards for *E. coli* are expressed as a two-month geometric mean. Site-specific or seasonal standards are also two-month geometric means unless otherwise specified.
- ~~(b) All phosphorus standards are based upon the concentration of total phosphorus.~~
- ~~(eb)~~ The pH standards of 6.5 (or 5.0) and 9.0 are an instantaneous minimum and maximum, respectively to be applied as effluent limits. In determining instream attainment of water quality standards for pH, appropriate averaging periods may be applied, provided that beneficial uses will be fully protected.
- ~~(ec)~~ All mercury standards apply to the total recoverable fraction of all forms, both organic and inorganic, of mercury in water.
- ~~(ed)~~ All ammonia, nitrate, and nitrite standards are based upon the concentration reported as nitrogen.

(6) Discharger-Specific Variances

- (a) Yampa River Segment 7 (COUCYA07)

Discharger-Specific Variance, Town of Oak Creek (CO0041106): Adopted 12/14/2020.

Total Inorganic Nitrogen (TIN) (acute) = TVS:15 mg/L; Expiration date: 6/30/2026.
Effluent concentrations shall not exceed the current condition.

33.7 - 33.9 RESERVED

33.69 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; NOVEMBER 14, 2022 RULEMAKING; FINAL ACTION _____; EFFECTIVE DATE APRIL 30, 2023

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

BASIS AND PURPOSE

A. Revision of Total Nitrogen and Total Phosphorus Table Value Standards for Lakes and Reservoirs at 31.17

In March 2012, the commission adopted interim numerical nutrient table value standards for chlorophyll *a* to protect the Aquatic Life, Recreation, and Direct Use Water Supply (DUWS) uses and table value standards for total nitrogen and total phosphorus to protect the Aquatic Life and Recreation uses (31.50) in lakes, reservoirs, rivers, and streams. In its July 2016 action letter for the March 2012 rulemaking hearing, EPA recommended revisiting the classification analysis for lakes and reservoirs to account for the variability between lakes (e.g., Cold and Warm lakes), evaluating confounding factors in the stressor-response relationship between nutrients and chlorophyll *a*, and evaluating whether the standards are protective of lakes with a high chlorophyll *a* yield per unit of nutrient.

In this hearing, the commission adopted revised total nitrogen and total phosphorus standards for lakes and reservoirs to address EPA's 2016 recommendations and ensure protective standards are adopted on lakes and reservoirs with Aquatic Life, Recreation, and/or DUWS uses (31.17 Table V). The numeric nutrient standards for total nitrogen and total phosphorus represent growing season (July through September) average concentrations with an allowable exceedance frequency is once in five years, and apply to lakes greater than 25 acres in size and with a residence time of at least 14 days. The commission adopted these standards into Regulation No. 31 and the basin regulations (Regulation Nos. 32-38) in this rulemaking; additional details about the revised total nitrogen and total phosphorus standards for lakes and reservoirs are included in 31.60.

B. Implementation of Nutrients Table Value Standards

The commission revised 33.5(4) to reflect the current status of the phased implementation framework for nutrients standards and remove information regarding implementation that concludes December 31, 2022. These revisions included removing language regarding phased implementation of chlorophyll *a* standards for lakes, reservoirs, rivers, and streams, as these standards now apply to all waterbodies with Aquatic Life, Recreation, and/or DUWS uses in Colorado. The information regarding the specific circumstances where nitrogen and phosphorus standards will apply before December 31, 2027 was clarified and includes additional references to 31.17. Also, to be consistent with past practice and the commission's intent in 31.55, the word "headwaters" was replaced with "waterbodies upstream of certain domestic and non-domestic wastewater treatment facilities". Finally, references to new Tables V (nutrients standards for lakes and reservoirs) and VI (nutrients standards for rivers and streams) in 31.17 were also added.

The commission revised the Table Value Standards table in 33.6(3) to include chlorophyll *a*, total nitrogen, and total phosphorus. Instead of replicating the numerical values for these table value standards, the table references 31.17, as 31.17 contains the numeric standards (in Tables V and VI), implementation information, and additional details regarding the phased implementation framework. As part of this change, the commission revised Footnote 1 to specify that the nitrogen and phosphorus standards are based upon the total concentration; this information was previously contained in 33.6(5)(b), which was deleted. Additionally, the commission adopted a new Footnote 6 that clarifies that, with the exception of the chlorophyll *a* standard to protect the DUWS sub-classification, the chlorophyll *a*, total nitrogen, and total phosphorus standards apply only to lakes and reservoirs larger than 25 acres surface area. The chlorophyll *a* standard to protect DUWS lakes and reservoirs applies to lakes and reservoirs of

all sizes. This information was previously included in the segment tables in Appendix 33-1, but was moved to Footnote 6 for clarity.

1. Nitrogen and Phosphorus Standards for Lakes, Reservoirs, Rivers, and Streams

a. Lakes and Reservoirs

Adoption of total phosphorus standards was previously limited to specific segments or portions of segments, as outlined in 31.50(VI)(A) (i.e., waterbodies above certain discharge facilities and site-specific situations where numeric standards were needed to protect uses). Prior to this rulemaking hearing, total nitrogen standards had not been adopted on any waterbodies. However, consistent with the phased implementation strategy developed in 2012 (31.50(VI)(A)) and 2017 (31.55), the commission expanded the adoption of the total phosphorus standards to also include all lake and reservoirs with the DUWS sub-classification and waterbodies with a public swim beach (defined as waterbodies with a natural swimming area per C.R.S § 25-5-801, including having a fee-based cordoned off swim area). The commission also adopted total nitrogen standards on the same set of waterbodies (i.e., waterbodies above certain discharge facilities, site-specific situations where numeric standards were needed to protect uses, DUWS, and swim beaches). Consistent with 31.17, the total phosphorus and total nitrogen standards apply only to lakes and reservoirs greater than 25 acres.

The commission previously adopted the DUWS sub-classification and notation in the Appendix 33-1 tables on several waterbodies in previous rulemaking hearings, but public swim beaches were identified in the current rulemaking. However, it was only necessary to specify the presence of a public swim beach in limited cases, because most public swim beaches in Colorado are also either classified as DUWS or located above certain discharge facilities; waterbodies falling into either of those categories are also assigned total nitrogen and total phosphorus standards. Therefore, the “Public Swim Beach” notation only needed to be applied to waterbodies where the total nitrogen and total phosphorus standards were only being applied due to the presence of a swim beach. In Regulation No. 33, all public swim beaches are also classified as DUWS or located above certain discharge facilities, so total nitrogen and total phosphorus standards were adopted for those reasons. As a result, there was not a need to add total nitrogen and total phosphorus standards solely due to the presence of a public swim beach on any waterbodies.

b. Rivers and Streams

In rivers and streams, the commission did not adopt total phosphorus standards on any additional river or stream waterbodies or total nitrogen table value standards on any waterbodies, consistent with the phased implementation timeline outlined in 31.17 and 33.5(4).

c. Formatting of Nitrogen and Phosphorus Standards in Appendix 33-1

The commission changed how previously-adopted total phosphorus table value standards were presented in the segment tables in Appendix 33-1. Specifically, the table value standards were previously shown as numeric values, which were replaced with “TVS”. Similarly, any total nitrogen or total phosphorus standards adopted in this rulemaking hearing were adopted into the Appendix 33-1 tables as “TVS”. This approach allows the regulation to point directly to 31.17, which has a complete record of information regarding these table value standards.

2. Chlorophyll a Standards for Lakes, Reservoirs, Rivers, and Streams

The commission made no changes to the chlorophyll a standards to protect Aquatic Life, Recreation, and/or DUWS uses in lakes, reservoirs, rivers, or streams. In addition, the commission made no changes to existing site-specific chlorophyll a standards.

Adoption of chlorophyll a standards was previously limited to specific segments or portions of segments, as outlined in 31.50(VI)(A) (i.e., waterbodies above certain discharge facilities and site-specific situations where numeric standards were needed to protect uses). However, consistent with the phased implementation strategy developed in 2012 (31.50(VI)(A)) and 2017 (31.55), the commission expanded the adoption of chlorophyll a standards to all segments with Aquatic Life, Recreation, and/or DUWS uses.

Specifically, in this rulemaking hearing, the commission adopted the chlorophyll a table value standard of 8 µg/L for all cold water lakes or reservoirs (larger than 25 acres) with Aquatic Life or Recreation E, U, or P uses; 20 µg/L for all warm water lakes or reservoirs (larger than 25 acres) with Aquatic Life or Recreation E, U, or P uses; and 150 mg/m² for all cold or warm water streams with a Recreation E, U, or P use. In the segment tables in Appendix 33-1, these table value standards were adopted as “TVS” and any previously-adopted table value standards shown as numeric values were changed to “TVS”. This approach allows the regulation to point directly to 31.17, which has a complete record of information regarding these table value standards.

In addition, the commission adopted the table value standard of 5 µg/L for all lakes or reservoirs (of any size) with DUWS; in Appendix 33-1, these table value standards are shown as “DUWS”. The phased implementation of the chlorophyll a standards adoption is now complete.

C. Clarifications and Corrections

The following edits were made to Appendix 33-1 to improve clarity and correct errors:

- The Direct Use Water Supply (DUWS) references in segments in Appendix 33-1 were revised to improve clarity and consistency.
- In Appendix 33-1, on Yampa River Segment 23 (COUCYA23), the notes in the “Other” column regarding chlorophyll a and phosphorus standards applying only above facilities listed in 33.5(4) are unnecessary. These notes were adopted in error, as the only waterbody in this segment (Elkhead Reservoir) is not below any facilities listed in 33.5(4).

**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 ~~09/30/2022~~04/30/2023

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

Upper Colorado River Basin

1. Mainstem of the Colorado River, including all tributaries and wetlands, within or flowing into Rocky Mountain National Park.							
COUCUC01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Water Supply	DM	MWAT	acute	chronic		
OW	Agriculture	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Aq Life Cold 1		acute	chronic	Arsenic(T)	---	0.02
	Recreation E	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
			Zinc	TVS	TVS/TVS(sc)		
2. Mainstem of the Colorado River, including all tributaries and wetlands, within or flowing into Arapahoe National Recreation Area, except for the specific listing in Segment 5.							
COUCUC02	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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

Upper Colorado River Basin

3. Mainstem of the Colorado River from the outlet of Lake Granby to below the confluence with the Roaring Fork River.						
COUCUC03	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	450*TVS	Chromium III(T)	50
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)		Copper	TVS	TVS
*chlorophyll-a (mg/m ²)(chronic) = applies only above the facilities listed at 33.5(4).				Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).		acute	chronic	Iron(T)	---	1000
*Uranium(acute) = See 33.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS
*Uranium(chronic) = See 33.5(3) for details.		Boron	---	0.75	Lead(T)	50
*Temperature = See 33.6(4) for temperature standards.		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	0.14TVS*	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS
						TVS/TVS(sc)

4. All tributaries to the Colorado River, including all wetlands, from the outlet of Lake Granby to above the confluence with the Roaring Fork River, which are on National Forest lands, except for the specific listings in Segments 2, 8, 9 and 10a.

COUCUC04	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	50
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)		Copper	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.				Iron	---	WS
*Uranium(chronic) = See 33.5(3) for details.		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	0.14TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	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

Upper Colorado River Basin

5. Mainstem of Willow Creek from the outlet of Willow Creek Reservoir to the confluence with the Colorado River.								
COUCUC05	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 *TVS	Chromium III(T)	50	---	
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
Expiration Date of 12/31/2024					Copper	TVS	TVS	
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 33.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).</div> <div>*Uranium(acute) = See 33.5(3) for details.</div> <div>*Uranium(chronic) = See 33.5(3) for details.</div>		Inorganic (mg/L)			Iron	---	WS	
		acute	chronic	Iron(T)	---	1000		
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.14 TVS*	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
		Zinc	TVS	TVS/TVS(sc)				
		6a. All tributaries to the Colorado River, including all wetlands, from the border of Rocky Mountain National Park and Arapahoe National Recreation Area to a point immediately above the confluence with the Blue River and Muddy Creek, which are not on National Forest lands, except for the specific listings in Segments 5, 6b, 8 and 10a-c.						
		COUCUC06A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation P	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 *TVS	Chromium III(T)	50	---	
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	205	Chromium VI	TVS	TVS	
Expiration Date of 12/31/2024					Copper	TVS	TVS	
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 33.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).</div> <div>*Uranium(acute) = See 33.5(3) for details.</div> <div>*Uranium(chronic) = See 33.5(3) for details.</div>		Inorganic (mg/L)			Iron	---	WS	
		acute	chronic	Iron(T)	---	1000		
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.14 TVS*	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
		Zinc	TVS	TVS/TVS(sc)				

6a. All tributaries to the Colorado River, including all wetlands, from the border of Rocky Mountain National Park and Arapahoe National Recreation Area to a point immediately above the confluence with the Blue River and Muddy Creek, which are not on National Forest lands, except for the specific listings in Segments 5, 6b, 8 and 10a-c.							
COUCUC06A		Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation P		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 *TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 33.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).</div> <div>*Uranium(acute) = See 33.5(3) for details.</div> <div>*Uranium(chronic) = See 33.5(3) for details.</div>		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 *TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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

Upper Colorado River Basin

6b. Mainstem of un-named tributary to Willow Creek from the headwaters to the confluence with Willow Creek (40.131422, -105.920895).								
COUCUC06B		Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---	
	Recreation N		acute	chronic	Arsenic(T)	---	100	
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Other: *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.		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS	
		pH	6.5 - 9.0	---	Chromium III(T)	---	100	
		chlorophyll a (mg/m²)	---	---	Chromium VI	TVS	TVS	
		E. Coli (per 100 mL)	---	630	Copper	TVS	TVS	
					Iron(T)	---	1000	
			Inorganic (mg/L)		Lead	TVS	TVS	
				acute	chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Manganese(T)	---	200	
		Boron	---	0.75	Mercury(T)	---	0.01	
		Chloride	---	---	Molybdenum(T)	---	150	
		Chlorine	0.019	0.011	Nickel	TVS	TVS	
		Cyanide	0.005	---	Selenium	TVS	TVS	
		Nitrate	100	---	Silver	TVS	TVS(tr)	
		Nitrite	---	0.05	Uranium	varies*	varies*	
		Phosphorus	---	0-14TVS*	Zinc	TVS	TVS	
		Sulfate	---	---				
Sulfide	---	0.002						
7a. All tributaries to the Colorado River, including all wetlands, from a point immediately above the confluence with the Blue River and Muddy Creek 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, 7c, 7d, 7e and in the Blue River, Eagle River, and Roaring Fork River basins.								
COUCUC07A		Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---	
	Recreation E		acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: Temporary Modification(s): Arsenic(chronic) = hybrid 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.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
			Inorganic (mg/L)		Iron	---	WS	
				acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0-14TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	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

Upper Colorado River Basin

7b. All tributaries to Muddy Creek, including all wetlands, from the inlet of Wolford Mountain Reservoir to the confluence with the Colorado River. Mainstems of Rock Creek, Deep Creek, Sheephorn Creek, Sweetwater Creek, Piney River and Blacktail Creek, including all tributaries and wetlands, from their sources to their confluences with the Colorado River, which are not on National Forest lands.

COUCUC07B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Copper	TVS	TVS
*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 33.5(4).		acute		chronic	Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).		Ammonia	TVS	TVS	Iron(T)	---	1000
*Uranium(acute) = See 33.5(3) for details.		Boron	---	0.75	Lead	TVS	TVS
*Uranium(chronic) = See 33.5(3) for details.		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	---	0.14 TVS*	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)

7c. Mainstem of Muddy Creek from the source to a point immediately below the confluence with Eastern Gulch, except those waters on National Forest lands. All tributaries to Muddy Creek, including all wetlands, from the source to the inlet of Wolford Mountain Reservoir, except those waters on National Forest lands. The mainstems of Derby Creek, Cabin Creek, and Red Dirt Creeks (all tributary to the Colorado River), including all tributaries and wetlands, from their sources to their confluences with the Colorado River, except those waters on National Forest lands.

COUCUC07C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation N	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 33.5(3) for details.		chlorophyll a (mg/m ²)	---	---	Chromium III(T)	50	---
*Uranium(chronic) = See 33.5(3) for details.		E. Coli (per 100 mL)	---	630	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	---	0.14 TVS	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

Upper Colorado River Basin

7d. Mainstem of Muddy Creek from the outlet of Wolford Mountain Reservoir to above the Highway 40 Bridge in Kremmling (40.060574, -106.398739).							
COUCUC07D	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *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.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	150 *TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
					Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11 TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
			Zinc	TVS	TVS/TVS(sc)		
7e. Mainstem of Muddy Creek from above the Highway 40 Bridge in Kremmling (40.060574, -106.398739) to the confluence with the Colorado River.							
COUCUC07E	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	7.6	
			D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
Other: *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.		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m²)	---	150 *TVS	Chromium VI	TVS	TVS
		E. Coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
					Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	250	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	TVS	TVS
		Phosphorus	---	0.11 TVS*			
		Sulfate	---	---			

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

Upper Colorado River Basin

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 in Segment 9.							
COUCUC08	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS*
		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS*
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	190
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)
9. All tributaries to the Colorado and Fraser Rivers, including all wetlands, within the Never Summer, Indian Peaks, Byers Peak, Vasquez Peak, Eagles Nest and Flat Tops Wilderness Areas.							
COUCUC09	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
*Uranium(acute) = See 33.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(chronic) = See 33.5(3) for details.					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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

Upper Colorado River Basin

10a. Mainstem of the Fraser River from the source to a point immediately below the Rendezvous Bridge (39.933728, -105.789785). All tributaries to the Fraser River, including wetlands, from the source to the confluence with the Colorado River, except for those tributaries included in Segments 2 and 9.							
COUCUC10A		Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m²)	---	150*TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024					Iron	---	WS
*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 33.5(4).		Inorganic (mg/L)			Iron(T)	---	1000
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).		acute	chronic	Ammonia	TVS	TVS	
*Uranium(acute) = See 33.5(3) for details.		---	0.75	Boron	---	0.01	
*Uranium(chronic) = See 33.5(3) for details.		---	250	Chloride	---	150	
		0.019	0.011	Chlorine	0.005	---	
		0.005	---	Cyanide	10	---	
		10	---	Nitrate	---	0.05	
		---	0.05	Nitrite	---	0.41TVS*	
		---	0.41TVS*	Phosphorus	---	WS	
		---	WS	Sulfate	---	0.002	
		---	0.002	Sulfide			

10b. Mainstem of the Fraser River from a point immediately below the Rendezvous Bridge (39.933728, -105.789785) to a point immediately below the Hammond No 1 Ditch (39.952113, -105.814481).							
COUCUC10B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m ²)	---	--TVS -	Chromium III(T)	50	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Iron	---	WS
*Uranium(acute) = See 33.5(3) for details.		acute	chronic		Iron(T)	---	1000
*Uranium(chronic) = See 33.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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

Upper Colorado River Basin

10c. Mainstem of the Fraser River from a point immediately below the Hammond No 1 Ditch (39.952113, -105.814481) to the confluence with the Colorado River.

COUCUC10C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	---TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 33.5(3) for details.		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)

11. All lakes and reservoirs tributary to the Colorado River within Rocky Mountain National Park, Never Summer, Indian Peaks, Byers Peak, Vasquez Peak, Eagles Nest and Flat Tops Wilderness Areas.

COUCUC11	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
OW	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.					Copper	TVS	TVS
*Uranium(chronic) = See 33.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Temperature =		acute		chronic	Iron(T)	---	1000
DM and MWAT=CL,CLL from 1/1-3/31		Ammonia	TVS	TVS	Lead	TVS	TVS
Rim Lake		Boron	---	0.75	Lead(T)	50	---
DM=CL and MWAT=16.6 from 4/1-12/31		Chloride	---	250	Manganese	TVS	TVS/WS
All others		Chlorine	0.019	0.011	Mercury(T)	---	0.01
DM and MWAT=CL,CLL from 4/1-12/31		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	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

Upper Colorado River Basin

12. Lakes and reservoirs within Arapahoe National Recreation Area, including Grand Lake, Shadow Mountain Lake and Lake Granby.

COUCUC12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies* ^B	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	clarity	---	narrative*	Cadmium	TVS	TVS
	DUWS*	D.O. (mg/L)	---	6.0	Cadmium(T)	5.0	---
		D.O. (spawning)	---	7.0	Chromium III	---	TVS
Qualifiers:		pH	6.5 - 9.0	---	Chromium III(T)	50	---
Goal Qualifier Grand Lake Clarity		chlorophyll a (ug/L)	---	DUWS8*	Chromium VI	TVS	TVS
Other: *Goal Qualifier Grand Lake: 7/1-9/11, Clarity = 3.8 meter average and 2.5 meter minimum Secchi disk depth. *chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 33.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.*Classification: DUWS applies to Grand Lake. *Classification: DUWS Applies only to Grand Lake.*Nitrogen(chronic) = applies only above the facilities listed at 33.5(4) and in DUWS waterbodies. *Phosphorus(chronic) = applies only above the facilities listed at 33.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.) and in DUWS waterbodies. *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. *clarity(chronic) = For Grand Lake, the highest level of clarity attainable, consistent with the exercise of established water rights, the protection of aquatic life, and protection of water quality throughout the Three Lakes system. *Temperature = See 33.6(4) for temperature standards.		<u>chlorophyll a (ug/L)</u>	---	TVS	Copper	TVS	TVS
		E. Coli (per 100 mL)	---	126	Iron	---	WS
		Inorganic (mg/L)		Iron(T)	---	1000	
			acute	chronic	Lead	TVS	TVS
		Ammonia	TVS	TVS	Lead(T)	50	---
		Boron	---	0.75	Manganese	TVS	TVS/WS
		Chloride	---	250	Mercury(T)	---	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	10	---	Nickel(T)	---	100
Nitrite	---	0.05	Selenium	TVS	TVS		
		<u>Nitrogen</u>	---	TVS*	Silver	TVS	TVS(tr)
		Phosphorus	---	0.025TVS*	Uranium	varies*	varies*
		Sulfate	---	WS	Zinc	TVS	TVS
		Sulfide	---	0.002			

13. 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 above the confluence with the Roaring Fork River, except for specific listings in Upper Colorado Segments 11 and 12 and the Blue River and Eagle River subbasins.

COUCUC13	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	varies* varies* ^B	Arsenic	340 ---
	Recreation E		acute chronic	Arsenic(T)	--- 0.02
	Water Supply	D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS
	DUWS*	D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---
Qualifiers:		pH	6.5 - 9.0 ---	Chromium III	--- TVS
Other: *chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 33.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.*Classification: DUWS applies to Ute Creek Reservoir. *Classification: **Nitrogen(chronic) = applies only above the facilities listed at 33.5(4) and in DUWS waterbodies.DUWS Applies only to Ute Creek-Res *Phosphorus(chronic) = applies only above the facilities listed at 33.5(4), applies only to lakes and reservoirs larger than 25 acres surface area-) and in DUWS waterbodies. *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. *Temperature = See 33.6(4) for temperature standards.		chlorophyll a (ug/L)	--- 8*DUWS	Chromium III(T)	50 ---
		chlorophyll a (ug/L)	--- TVS	Chromium VI	TVS TVS
		E. Coli (per 100 mL)	--- 126	Copper	TVS TVS
		Inorganic (mg/L)		Iron	--- WS
			acute chronic	Iron(T)	--- 1000
		Ammonia	TVS TVS	Lead	TVS TVS
		Boron	--- 0.75	Lead(T)	50 ---
		Chloride	--- 250	Manganese	TVS TVS/WS
		Chlorine	0.019 0.011	Mercury(T)	--- 0.01
		Cyanide	0.005 ---	Molybdenum(T)	--- 150
		Nitrate	10 ---	Nickel	TVS TVS
		Nitrite	--- 0.05	Nickel(T)	--- 100
		Nitrogen	--- - TVS*	Selenium	TVS TVS
		Phosphorus	--- 0.025TVS*	Silver	TVS TVS(tr)
		Sulfate	--- WS	Uranium	varies* varies*
		Sulfide	--- 0.002	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

Blue River Basin

1. Mainstem of the Blue River from the source to above the confluence with French Gulch.							
COUCBL01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 33.5(3) for details.		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)

2a. Mainstem of the Blue River from above the confluence with French Gulch to a point one half mile below Coyne Valley Road (39.523189, -106.050805).							
COUCBL02A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
UP	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	4	4
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 33.5(4).		Inorganic (mg/L)			Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).		acute	chronic		Iron(T)	---	1000
*Uranium(acute) = See 33.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 33.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
*Zinc(acute) = e^(1.25 (ln(hard)+0.799))		Chloride	---	250	Manganese	TVS	TVS/WS
*Zinc(chronic) = e^(1.25 (ln(hard)+0.799))		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	SSE*	SSE*

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

Blue River Basin

2b. Mainstem of the Blue River from a point one half mile below Coyne Valley Road (39.523189, -106.050805) to above the confluence with the Swan River.							
COUCBL02B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	SSE*	SSE*
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	1000
*Cadmium(acute) = 1/2e^(1.0166(ln(hard)-3.132))		Ammonia	TVS	TVS	Lead	TVS	TVS
*Cadmium(chronic) = 1/2e^(1.0166(ln(hard)-3.132))		Boron	---	0.75	Lead(T)	50	---
*Uranium(acute) = See 33.5(3) for details.		Chloride	---	250	Manganese	TVS	TVS/WS
*Uranium(chronic) = See 33.5(3) for details.		Chlorine	0.019	0.011	Mercury(T)	---	0.01
*Zinc(acute) = e^(0.9805(ln(hard)+1.402))		Cyanide	0.005	---	Molybdenum(T)	---	150
*Zinc(chronic) = e^(0.9805(ln(hard)+1.402))		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	SSE*	SSE*

2c. Mainstem of the Blue River from above the confluence with the Swan River to Dillon Reservoir.							
COUCBL02C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	1000
*Uranium(acute) = See 33.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 33.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)

2c. Mainstem of the Blue River from above the confluence with the Swan River to Dillon Reservoir.							
COUCBL02C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
*Uranium(acute) = See 33.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 33.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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

Blue River Basin

3. Deleted.

COUCBL03	Classifications	Physical and Biological		Metals (ug/L)	
Designation		DM	MWAT	acute	chronic
Qualifiers:		acute	chronic		
Other:					
		Inorganic (mg/L)			
		acute	chronic		

4a. All direct tributaries, including wetlands, to Dillon Reservoir and all tributaries, including wetlands, to the Blue River above Dillon Reservoir, except for specific listings in Segments 1, 2a, 2b, 2c, 4b, 6a, 10-14 and 16.

COUCBL04A	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I CS-I	Arsenic	340 ---
	Recreation E	acute	chronic	Arsenic(T)	--- 0.02
	Water Supply	D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS
Qualifiers:		D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---
Other:		pH	6.5 - 9.0 ---	Chromium III	--- TVS
	Temporary Modification(s):	chlorophyll a (mg/m ²)	--- 450 TVS	Chromium III(T)	50 ---
	Arsenic(chronic) = hybrid	E. Coli (per 100 mL)	--- 126	Chromium VI	TVS TVS
	Expiration Date of 12/31/2024			Copper	TVS TVS
		Inorganic (mg/L)		Iron	--- WS
	*Uranium(acute) = See 33.5(3) for details.	acute	chronic	Iron(T)	--- 1000
	*Uranium(chronic) = See 33.5(3) for details.	Ammonia	TVS TVS	Lead	TVS TVS
		Boron	--- 0.75	Lead(T)	50 ---
		Chloride	--- 250	Manganese	TVS TVS/WS
		Chlorine	0.019 0.011	Mercury(T)	--- 0.01
		Cyanide	0.005 ---	Molybdenum(T)	--- 150
		Nitrate	10 ---	Nickel	TVS TVS
		Nitrite	--- 0.05	Nickel(T)	--- 100
		Phosphorus	--- 0.44 TVS	Selenium	TVS TVS
		Sulfate	--- WS	Silver	TVS TVS(tr)
		Sulfide	--- 0.002	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

Blue River Basin

4b. North Fork of the Swan River, including all tributaries and wetlands, from the source to the confluence with the Swan River.							
COUCBL04B		Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
					Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)

5. Deleted.						
COUCBL05	Classifications	Physical and Biological			Metals (ug/L)	
Designation		DM	MWAT		acute	chronic
Qualifiers:		acute	chronic			
Other:		Inorganic (mg/L)				
		acute	chronic			

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

Blue River Basin

6a. Mainstem of the Snake River, including all tributaries and wetlands, from the source to Dillon Reservoir, except for specific listings in Segments 6b, 7, 8 and 9.						
COUCBL06A	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Aq Life Cold 1	Temperature °C	CS-I CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	450*TVS	Chromium III(T)	50
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)		Copper	TVS	TVS
*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 33.5(4).		acute	chronic	Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).		Ammonia	TVS	TVS	Iron(T)	---
*Uranium(acute) = See 33.5(3) for details.		Boron	---	0.75	Lead	TVS
*Uranium(chronic) = See 33.5(3) for details.		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Phosphorus	---	0.44*TVS*	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
					Uranium	varies*
					Zinc	TVS
						TVS
6b. Mainstem of Camp Creek, including all tributaries and wetlands, from the source to the confluence with the Snake River.						
COUCBL06B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
*Uranium(acute) = See 33.5(3) for details.		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	50
*Uranium(chronic) = See 33.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
*Zinc(acute) = 0.978*e^0.8537(ln Hardness)+1.5227		Inorganic (mg/L)		Copper	TVS	TVS
*Zinc(chronic) = 0.986*e^0.8537(ln Hardness)+1.3519		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Phosphorus	---	0.44*TVS	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
					Uranium	varies*
					Zinc	---
						SSE*

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

Blue River Basin

7. Mainstem of Peru Creek, including all tributaries and wetlands, from the source to the confluence with the Snake River, except for specific listings in Segment 8.

COUCBL07	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Aq Life Cold 1	DM		MWAT	acute		chronic
UP	Recreation E	Temperature °C	CS-I	CS-I	Arsenic	340	---
Qualifiers:		acute	chronic		Arsenic(T)	---	7.6
Other: *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium VI	TVS	TVS
		chlorophyll a (mg/m ²)	---	150TVS	Copper	TVS	TVS
		E. Coli (per 100 mL)	---	126	Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
					Manganese	TVS	TVS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	---
		Ammonia	TVS	TVS	Nickel	TVS	TVS
		Boron	---	---	Selenium	TVS	TVS
		Chloride	---	---	Silver	TVS	TVS(tr)
		Chlorine	0.019	0.011	Uranium	varies*	varies*
		Cyanide	0.005	---	Zinc	TVS	TVS
		Nitrate	---	---			
		Nitrite	---	0.05			
		Phosphorus	---	0.11TVS			
		Sulfate	---	---			
		Sulfide	---	0.002			

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 Snake River, including all tributaries and wetlands, from the source to the confluence with the Snake River. Mainstem of Jones Gulch, including all tributaries and wetlands, from the source to the confluence with the Snake River.

COUCBL08	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m²)	---	150*TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024					Iron	---	WS
*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.		Inorganic (mg/L)			Iron(T)	---	1000
			acute	chronic	Lead	TVS	TVS
		Ammonia	TVS	TVS	Lead(T)	50	---
		Boron	---	0.75	Manganese	TVS	TVS/WS
		Chloride	---	250	Mercury(T)	---	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	10	---	Nickel(T)	---	100
		Nitrite	---	0.05	Selenium	TVS	TVS
		Phosphorus	---	0.14TVS*	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	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

Blue River Basin

9. Mainstem of Deer Creek, including all tributaries and wetlands, from the source to the confluence with the Snake River.								
COUCBL09	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
					Iron(T)	---	1000	
					Lead	TVS	TVS	
					Lead(T)	50	---	
					Manganese	TVS	TVS/WS	
					Mercury(T)	---	0.01	
					Molybdenum(T)	---	150	
					Nickel	TVS	TVS	
					Nickel(T)	---	100	
					Selenium	TVS	TVS	
					Silver	TVS	TVS(tr)	
					Uranium	varies*	varies*	
					Zinc	TVS	TVS	
10. Mainstem of French Gulch, including all tributaries and wetlands, from the source to a point 1.5 miles below Lincoln (39.484661, -105.995074).								
COUCBL10	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
					Iron(T)	---	1000	
					Lead	TVS	TVS	
					Lead(T)	50	---	
					Manganese	TVS	TVS/WS	
					Mercury(T)	---	0.01	
					Molybdenum(T)	---	150	
					Nickel	TVS	TVS	
					Nickel(T)	---	100	
					Selenium	TVS	TVS	
					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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Blue River Basin

11. Mainstem of French Gulch from a point 1.5 miles below Lincoln (39.484661, -105.995074) to the confluence with the Blue River.							
COUCBL11	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation P	acute	chronic	Arsenic(T)	---	7.6	
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	EQ*	EQ*
Other: *Cadmium(acute) = existing quality *Cadmium(chronic) = existing quality *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. *Zinc(acute) = existing quality *Zinc(chronic) = existing quality		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m²)	---	450 TVS	Chromium VI	TVS	TVS
		E. Coli (per 100 mL)	---	205	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)		Lead	TVS	TVS	
		acute	chronic	Manganese	TVS	TVS	
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	EQ*	EQ*
		Phosphorus	---	0.14 TVS			
		Sulfate	---	---			
Sulfide	---	0.002					
12. Mainstem of Illinois Gulch and Fredonia Gulch from their sources to their confluences with the Blue River.							
COUCBL12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation P	acute	chronic	Arsenic(T)	---	0.02-10	^A
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)		Iron	---	WS	
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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

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	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation P	acute	chronic		Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
<p>*Any water quality based effluent limit shall not cause or contribute to exceedances of water quality standards adopted to protect downstream uses.</p> <p>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 33.5(4).</p> <p>*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).</p> <p>*Uranium(acute) = See 33.5(3) for details.</p> <p>*Uranium(chronic) = See 33.5(3) for details.</p>		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m ²)	---	150*TVS	Chromium VI	TVS	TVS
		E. Coli (per 100 mL)	---	205	Copper	TVS	TVS
		Inorganic (mg/L)			Iron(T)	---	1000
		acute	chronic		Lead	TVS	TVS
		Ammonia	TVS	TVS	Manganese	TVS	TVS
		Boron	---	0.75	Mercury(T)	---	0.01
		Chloride	---	---	Molybdenum(T)	---	---
		Chlorine	0.019	0.011	Nickel	TVS	TVS
		Cyanide	0.005	---	Selenium	TVS	TVS
		Nitrate	100	---	Silver	TVS	TVS(tr)
		Nitrite	---	0.05	Uranium	varies*	varies*
		Phosphorus	---	0.44TVS*	Zinc	TVS	TVS/TVS(sc)
		Sulfate	---	---			
		Sulfide	---	0.002			

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	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
<p>Temporary Modification(s):</p> <p>Arsenic(chronic) = hybrid</p> <p>Expiration Date of 12/31/2024</p> <p>Molybdenum(chronic) = current conditions*</p> <p>Expiration Date of 12/31/2023</p> <p>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 33.5(4).</p> <p>*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).</p> <p>*Uranium(acute) = See 33.5(3) for details.</p> <p>*Uranium(chronic) = See 33.5(3) for details.</p> <p>*TempMod: Molybdenum = Adopted 6/9/2014</p>		chlorophyll a (mg/m ²)	---	150*TVS	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)	---	210
		Nitrite	---	0.05	Nickel	TVS	TVS
		Phosphorus	---	0.44TVS*	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

Blue River Basin

15. Mainstem of Clinton Creek from the source to the confluence with Tenmile Creek.								
COUCBL15	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	150TVS	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
		acute	chronic	Iron(T)	---	1000		
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	210	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	
		16. All tributaries to the Blue River, including all wetlands, within the Eagles Nest and Ptarmigan Peak Wilderness Areas.						
		COUCBL16	Classifications	Physical and Biological			Metals (ug/L)	
		Designation	Agriculture	DM	MWAT	acute	chronic	
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	150TVS	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
		acute	chronic	Iron(T)	---	1000		
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	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

Blue River Basin

17. Mainstem of the Blue River from the outlet of Dillon Reservoir to the confluence with the Colorado River.							
COUCBL17	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)
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 listings in Segment 16.							
COUCBL18	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)

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 listings in Segment 16.							
COUCBL18	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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

Blue River Basin

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.

COUCBL19	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation N	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	---	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	630	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

20. Mainstems of Elliot Creek and Spruce Creek, including all tributaries and wetlands, from their sources to the confluence with the Blue River.

COUCBL20	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation N	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	---	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	630	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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

Blue River Basin

21. All lakes and reservoirs tributary to the Blue River within the Eagles Nest and Ptarmigan Peak Wilderness Areas.

COUCBL21	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute		chronic	
OW	Aq Life Cold 1	Temperature °C	CL,CLL	CL,CLL	Arsenic	340	---	
	Recreation E	acute		chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
<div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 33.5(3) for details.</div> <div>*Uranium(chronic) = See 33.5(3) for details.</div>		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
				acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		<u>Nitrogen</u>	---	TVS	Selenium	TVS	TVS	
		Phosphorus	---	0.025*TVS	Silver	TVS	TVS(tr)	
		Sulfate	---	WS	Uranium	varies*	varies*	
		Sulfide	---	0.002	Zinc	TVS	TVS	

22. Dillon Reservoir and all lakes and reservoirs tributary to the Blue River above Dillon Reservoir, except for specific listings in Segment 21.

COUCBL22	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CL,CLL	CL,CLL	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
	DUWS*	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 <u>*chlorophyll a (ug/L)(chronic) – applies only above the facilities listed at 33.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.*Classification: DUWS applies to Goose Pasture Tam.</u> <u>*Classification: DUWS Applies only to Goose Pasture Tam*Nitrogen(chronic) = applies only above the facilities listed at 33.5(4) and in DUWS waterbodies.</u> *Phosphorus(chronic) = 0.0074 mg/l for Dillon Reservoir in the top 15 meters of the water column for the months of July, August, September & October. Additional total phosphorus or Chla standards adopted for this segment do not apply to Dillon Reservoir. *Phosphorus(chronic) = applies only above the facilities listed at 33.5(4), applies only to lakes and reservoirs larger than 25 acres surface area-) and in DUWS waterbodies. *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		chlorophyll a (ug/L)	---	<u>8*DUWS</u>	Chromium III(T)	50	---
		<u>chlorophyll a (ug/L)</u>	---	<u>TVS</u>	Chromium VI	TVS	TVS
		E. Coli (per 100 mL)	---	126	Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		<u>Nitrogen</u>	---	<u>TVS*</u>	Selenium	TVS	TVS
		Phosphorus	---	0.0074*	Silver	TVS	TVS(tr)
		Phosphorus	---	<u>0-025TVS*</u>	Uranium	varies*	varies*
		Sulfate	---	WS	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

Blue River Basin

23. All lakes and reservoirs tributary to the Blue River below Dillon Reservoir, except for specific listings in Segment 21.

COUCBL23	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
<div>*chlorophyll a (ug/L)(Nitrogen)(chronic) = applies only above the facilities listed at 33.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.)</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.)</div> <div>*Uranium(acute) = See 33.5(3) for details.</div> <div>*Uranium(chronic) = See 33.5(3) for details.</div> <div>*Temperature = DM and MWAT=CL/CLL from 1/1-3/31 Green Mountain Reservoir DM=22.4 and MWAT=16.6 from 4/1-12/31 All others DM and MWAT=CL/CLL from 4/1-12/31</div>		chlorophyll a (ug/L)	---	8*TVS	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
		Nitrogen	---	TVS*	Nickel(T)	---	100
		Phosphorus	---	0.025TVS*	Selenium	TVS	TVS
Sulfate	---	WS	Silver	TVS	TVS(tr)		
Sulfide	---	0.002	Uranium	varies*	varies*		
			Zinc	TVS	TVS		

*chlorophyll a (ug/L)(Nitrogen(chronic) = applies only above the facilities listed at 33.5(4); applies only to lakes and reservoirs larger than 25 acres surface area.)

*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4); applies only to lakes and reservoirs larger than 25 acres surface area.)

*Uranium(acute) = See 33.5(3) for details.

*Uranium(chronic) = See 33.5(3) for details.

*Temperature =
DM and MWAT=CL/CLL from 1/1-3/31
Green Mountain Reservoir
DM=22.4 and MWAT=16.6 from 4/1-12/31
All others
DM and MWAT=CL/CLL from 4/1-12/31

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

Eagle River Basin

1. All tributaries to the Eagle River, including all wetlands, within the Gore Range - Eagles Nest and Holy Cross Wilderness Areas.								
COUCEA01	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
OW*	Aq Life Cold 1	Temperature °C	CS-I CS-I	Arsenic	340	---		
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS TVS		
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---		
Other:	*Designation: 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. *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.	pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
					Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.14TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS/TVS(sc)	
		2. Mainstem of the Eagle River from the source to above the compressor house bridge at Belden (39.526879, -106.394950).						
		COUCEA02	Classifications	Physical and Biological			Metals (ug/L)	
		Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I CS-I	Arsenic	340	---		
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS TVS		
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---		
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *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.	pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	450*TVS	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
					Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.14TVS*	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	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

Eagle River Basin

3. All tributaries to the Eagle River, including wetlands, from the source to above the compressor house bridge at Belden (39.526879, -106.394950), except for the specific listings in Segments 1 and 4.

COUCEA03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 33.5(3) for details.		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)

4. Mainstem of Homestake Creek from the confluence of the East Fork to the confluence with the Eagle River.

COUCEA04	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 33.5(3) for details.		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
*Uranium(chronic) = See 33.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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

Eagle River Basin

5a. Mainstem of the Eagle River from above the compressor house bridge at Belden (39.526879, -106.394950) to a point immediately above the Highway 24 Bridge near Tigiwon Road (39.554936, -106.401691).

COUCEA05A	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable*	Aq Life Cold 1	Temperature °C	CS-I CS-I	Arsenic	340 ---
	Recreation E	acute	chronic	Arsenic(T)	--- 0.02
	Water Supply	D.O. (mg/L)	--- 6.0	Cadmium	TVS SSE*
Qualifiers:		D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---
Other:		pH	6.5 - 9.0 ---	Chromium III	--- TVS
		chlorophyll a (mg/m ²)	--- TVS	Chromium III(T)	50 ---
		E. Coli (per 100 mL)	--- 126	Chromium VI	TVS TVS
		Inorganic (mg/L)		Copper	--- SSE*
		acute	chronic	Copper	SSE* ---
		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)	--- 150
		Phosphorus	--- ---	Nickel	TVS TVS
		Sulfate	--- WS	Nickel(T)	--- 100
		Sulfide	--- 0.002	Selenium	TVS TVS
				Silver	TVS TVS(tr)
				Uranium	varies* varies*
				Zinc	--- SSE*
				Zinc	SSE* ---

5b. Mainstem of the Eagle River from a point immediately above the Highway 24 Bridge near Tigiwon Road (39.554936, -106.401691) to a point immediately above the confluence with Martin Creek.

COUCEA05B	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable*	Aq Life Cold 1	Temperature °C	CS-I CS-I	Arsenic	340 ---
	Recreation E	acute	chronic	Arsenic(T)	--- 0.02
	Water Supply	D.O. (mg/L)	--- 6.0	Cadmium	TVS SSE*
Qualifiers:		D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---
Other:		pH	6.5 - 9.0 ---	Chromium III	--- TVS
		chlorophyll a (mg/m ²)	--- TVS	Chromium III(T)	50 ---
		E. Coli (per 100 mL)	--- 126	Chromium VI	TVS TVS
		Inorganic (mg/L)		Copper	--- SSE*
		acute	chronic	Copper	SSE* ---
		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)	--- 150
		Phosphorus	--- ---	Nickel	TVS TVS
		Sulfate	--- WS	Nickel(T)	--- 100
		Sulfide	--- 0.002	Selenium	TVS TVS
				Silver	TVS TVS(tr)
				Uranium	varies* varies*
				Zinc	--- SSE*
				Zinc	SSE* ---

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

Eagle River Basin

5c. Mainstem of the Eagle River from a point immediately above Martin Creek to a point immediately above the confluence with Gore Creek.							
COUCEA05C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable*	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	SSE*
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	---	SSE*
		Inorganic (mg/L)			Copper	SSE*	---
		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	---	SSE*
					Zinc	SSE*	---

6. All tributaries to the Eagle River, including all wetlands, from above the compressor house bridge at Belden (39.526879, -106.394950) to a point immediately below the confluence with Lake Creek, except for the specific listings in Segments 1, 7a, 7b, and 8.							
COUCEA06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)

6. All tributaries to the Eagle River, including all wetlands, from above the compressor house bridge at Belden (39.526879, -106.394950) to a point immediately below the confluence with Lake Creek, except for the specific listings in Segments 1, 7a, 7b, and 8.

COUCEA06	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT		acute	chronic	
	Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
		Recreation E		acute	chronic	Arsenic(T)	---	0.02
		Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
			acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	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

Eagle River Basin

7a. Mainstem of Cross Creek from the source to below the Minturn Water Facility (39.565419, -106.417032), except for the specific listings in Segment 1.						
COUCEA07A	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	50
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Phosphorus	---	0.44TVS	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
					Uranium	varies*
					Zinc	TVS
						TVS/TVS(sc)
7b. Mainstem of Cross Creek from below the Minturn Water Facility (39.565419, -106.417032) to the confluence with the Eagle River.						
COUCEA07B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable*	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	50
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	---	SSE*
		acute	chronic	Copper	SSE*	---
		Ammonia	TVS	TVS	Iron	---
		Boron	---	0.75	Iron(T)	---
		Chloride	---	250	Lead	TVS
		Chlorine	0.019	0.011	Lead(T)	50
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	---	0.05	Molybdenum(T)	---
		Phosphorus	---	0.44TVS	Nickel	TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	---
					Zinc	SSE*

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 Eagle River Basin

8. Mainstem of Gore Creek from the confluence with the confluence with Black Gore Creek to the confluence with the Eagle River.							
COUCEA08	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I*	varies*	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150*TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*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. *Temperature = MWAT= 14 from 6/1 - 6/30 MWAT=CS-I from 7/1 - 9/30 MWAT=12 from 10/1 - 10/15 MWAT=CS-I from 10/16 - 5/31		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
		Zinc	TVS	TVS/TVS(sc)			

9a. Mainstem of the Eagle River from above Gore Creek to a point immediately below the confluence with Squaw Creek.							
COUCEA09A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I*	varies*	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. *Temperature = MWAT=16 from 6/1 - 6/30 MWAT=CS-I from 7/1 - 9/30 MWAT=12 from 10/1 - 10/15 MWAT=11 from 10/16 - 10/31 MWAT=CS-I from 11/1 - 5/31		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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

Eagle River Basin

9b. Mainstem of the Eagle River from a point immediately below the confluence with Squaw Creek to a point immediately below the confluence with Rube Creek.							
COUCEA09B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)		Iron	---	WS	
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

9c. Mainstem of the Eagle River from a point immediately below the confluence with Rube Creek to the confluence with the Colorado River.							
COUCEA09C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)		Iron	---	WS	
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

9c. Mainstem of the Eagle River from a point immediately below the confluence with Rube Creek to the confluence with the Colorado River.							
COUCEA09C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	—TVS -	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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

Eagle River Basin

10a. 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 10b, 11 and 12, and those waters included in Segment 1.

COUCEA10A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

10b. Abrams Creek, including all tributaries and wetlands, from the source to the eastern boundary of the United States Bureau of Land Management lands.

COUCEA10B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 33.5(3) for details.		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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

Eagle River Basin

11. Mainstem of Alkali Creek (near Wolcott) from the source to the confluence with the Eagle River. Mainstem of Milk Creek from the source to the confluence with the Eagle River.								
COUCEA11	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute			chronic	
	Reviewable	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	---
		Recreation P	acute	chronic	Arsenic(T)	---	7.6	
Qualifiers:		D.O. (mg/L)	---	6.0	Beryllium(T)	---	100	
Fish Ingestion Standards Apply		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS	
Other: *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS	
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	---	100	
		E. Coli (per 100 mL)	---	205	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron(T)	---	1000	
					Lead	TVS	TVS	
					Manganese	TVS	TVS	
					Manganese(T)	---	200	
					Mercury(T)	---	0.01	
					Molybdenum(T)	---	150	
					Nickel	TVS	TVS	
					Selenium	TVS	TVS	
					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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Eagle River Basin

13. All lakes and reservoirs tributary to the Eagle River within the Gore Range - Eagles Nest and Holy Cross Wilderness Areas.

COUCEA13	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
OW	Aq Life Cold 1	Temperature °C	CL,CLL	CL,CLL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS

14. All lakes and reservoirs tributary to the Eagle River except for specific listings in Segment 13.

COUCEA14	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CL,CLL	CL,CLL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	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

Roaring Fork River Basin

1. All tributaries to the Roaring Fork River, including all wetlands, within the Maroon Bells/Snowmass, Holy Cross, Raggeds, Collegiate Peaks and Hunter/Fryingpan Wilderness Areas.

COUCRF01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	150 TVS	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	---	0.14 TVS	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	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.

COUCRF02	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	150 TVS	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	---	0.14 TVS	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

Roaring Fork River Basin

3a. Mainstem of the Roaring Fork River, from a point immediately below the confluence with Hunter Creek, to a point immediately below the confluence with the Fryingpan River. All tributaries to the Roaring Fork River, including 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, 3b, 3d, 4-10b.

COUCRF03A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	450 <u>TVS</u>	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 33.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).</div> <div>*Uranium(acute) = See 33.5(3) for details.</div> <div>*Uranium(chronic) = See 33.5(3) for details.</div>		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 <u>TVS</u> *	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

3b. Mainstem of Red Canyon, including all tributaries and wetlands, from the source to the confluence with the Roaring Fork River, except for Landis Creek from the source to the Hopkins Ditch (39.522138, -107.223479).

COUCRF03B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		chlorophyll a (mg/m ²)	---	450 TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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

Roaring Fork River Basin

3c. Mainstem of the Roaring Fork River from a point immediately below the confluence with the Frypanpan River to the confluence with the Colorado River.					
COUCRF03C	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic 340 ---
	Recreation E	acute	chronic	Arsenic(T) --- 0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium TVS TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T) 5.0 ---
Other:		pH	6.5 - 9.0	---	Chromium III --- TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	450*TVS	Chromium III(T) 50 ---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI TVS TVS
Expiration Date of 12/31/2024					Copper TVS TVS
		Inorganic (mg/L)		Iron --- WS	
		acute	chronic	Iron(T) --- 1000	
		Ammonia	TVS	TVS	Lead TVS TVS
		Boron	---	0.75	Lead(T) 50 ---
		Chloride	---	250	Manganese TVS TVS/WS
		Chlorine	0.019	0.011	Mercury(T) --- 0.01
		Cyanide	0.005	---	Molybdenum(T) --- 150
		Nitrate	10	---	Nickel TVS TVS
		Nitrite	---	0.05	Nickel(T) --- 100
		Phosphorus	---	0.44TVS*	Selenium TVS TVS
		Sulfate	---	WS	Silver TVS TVS(tr)
		Sulfide	---	0.002	Uranium varies* varies*
					Zinc TVS TVS

*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.
 *Temperature = See 33.6(4) for temperature standards.

3d. Mainstem of Cattle Creek, including all tributaries and wetlands, from the source to the most downstream White River National Forest boundary.					
COUCRF03D	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic 340 ---
	Recreation E	acute	chronic	Arsenic(T) --- 0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium TVS TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T) 5.0 ---
Other:		pH	6.5 - 9.0	---	Chromium III --- TVS
		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T) 50 ---
		E. Coli (per 100 mL)	---	126	Chromium VI TVS TVS
					Copper TVS TVS
		Inorganic (mg/L)		Iron --- WS	
		acute	chronic	Iron(T) --- 1000	
		Ammonia	TVS	TVS	Lead TVS TVS
		Boron	---	0.75	Lead(T) 50 ---
		Chloride	---	250	Manganese TVS TVS/WS
		Chlorine	0.019	0.011	Mercury(T) --- 0.01
		Cyanide	0.005	---	Molybdenum(T) --- 150
		Nitrate	10	---	Nickel TVS TVS
		Nitrite	---	0.05	Nickel(T) --- 100
		Phosphorus	---	0.44TVS	Selenium TVS TVS
		Sulfate	---	WS	Silver TVS TVS(tr)
		Sulfide	---	0.002	Uranium varies* varies*
					Zinc TVS TVS

*Uranium(acute) = See 33.5(3) for details.
 *Uranium(chronic) = See 33.5(3) for details.

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

Roaring Fork River Basin

4. Mainstem of Brush Creek from the source to the confluence with the Roaring Fork River.							
COUCRF04	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450 *TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 33.5(4).		Inorganic (mg/L)			Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).		acute	chronic		Iron(T)	---	1000
*Uranium(acute) = See 33.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 33.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

5. Mainstem of the Fryingpan River from the source to the confluence with the North Fork Fryingpan River, except for the portion included in Segment 1.							
COUCRF05	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 33.5(3) for details.		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
*Uranium(chronic) = See 33.5(3) for details.		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	---	0.44 TVS	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

Roaring Fork River Basin

6. Mainstem of the Fryingpan River from the confluence with the North Fork Fryingpan River to the confluence with the Roaring Fork River.							
COUCRF06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 33.5(3) for details.		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)

7. All tributaries to the Fryingpan River, including all wetlands, from the source to the confluence with the Roaring Fork River, except for those tributaries included in Segment 1.							
COUCRF07	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 33.5(3) for details.		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
*Uranium(chronic) = See 33.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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

Roaring Fork River Basin

8. Mainstem of the Crystal River, including all tributaries and wetlands, from the source to the confluence with the Roaring Fork River, except for the specific listings in Segments 1, 9, 10a and 10b.

COUCRF08	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 *TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 33.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).</div> <div>*Uranium(acute) = See 33.5(3) for details.</div> <div>*Uranium(chronic) = See 33.5(3) for details.</div>		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 *TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

9. Mainstem of Coal Creek, including all tributaries and wetlands, from the source to the confluence with the Crystal River.

COUCRF09	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 33.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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

Roaring Fork River Basin

10a. Mainstem of Thompson Creek, including all tributaries and wetlands, from the source to the confluence with the Crystal River, except for specific listings in Segment 10b.							
COUCRF10A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
*Uranium(acute) = See 33.5(3) for details.		acute	chronic		Iron(T)	---	1000
*Uranium(chronic) = See 33.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)
10b. Mainstem of North Thompson Creek, including all tributaries and wetlands, from the source to the White River National Forest boundary. Mainstem of Middle Thompson Creek, including all tributaries and wetlands, from the source to a point immediately below the confluence with the South Branch of Middle Thompson Creek.							
COUCRF10B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
*Uranium(acute) = See 33.5(3) for details.		acute	chronic		Iron(T)	---	1000
*Uranium(chronic) = See 33.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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

Roaring Fork River Basin

11. All lakes and reservoirs tributary to the Roaring Fork River within the Maroon Bells/Snowmass, Holy Cross, Raggeds, Collegiate Peaks and Hunter/Fryingpan Wilderness Areas.					
COUCRF11	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
OW	Aq Life Cold 1	varies*	varies*	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	0.02
	Water Supply	D.O. (mg/L)	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	Chromium III	TVS
<p>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Uranium(acute) = See 33.5(3) for details.</p> <p>*Uranium(chronic) = See 33.5(3) for details.</p> <p>*Temperature = DM and MWAT=CL,CLL from 1/1-3/31 Savage Lake, Ivanhoe Lake DM=CL and MWAT=16.6 from 4/1-12/31 All others DM and MWAT=CL,CLL from 4/1-12/31</p>		chlorophyll a (ug/L)	8*TVS	Chromium III(T)	50
		E. Coli (per 100 mL)	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS
		acute	chronic	Iron	WS
		Ammonia	TVS	Iron(T)	1000
		Boron	0.75	Lead	TVS
		Chloride	250	Lead(T)	50
		Chlorine	0.019	Manganese	TVS
		Cyanide	0.005	Mercury(T)	TVS/WS
		Nitrate	10	Molybdenum(T)	0.01
		Nitrite	0.05	Nickel	TVS
		Nitrogen	TVS	Nickel(T)	100
		Phosphorus	0.025*TVS	Selenium	TVS
		Sulfate	WS	Silver	TVS(tr)
		Sulfide	0.002	Uranium	varies*
				Zinc	TVS
12. All lakes and reservoirs tributary to the Roaring Fork River, except for the specific listings in Segment 11.					
COUCRF12	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	varies*	varies* ^B	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	0.02
	Water Supply	D.O. (mg/L)	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	Chromium III	TVS
<p>Temporary Modification(s):</p> <p>Arsenic(chronic) = hybrid</p> <p>Expiration Date of 12/31/2024</p> <p>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Classification: DUWS Applies only applies to Leonard Thomas ResReservoir and Wildcat ResReservoir.</p> <p>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Uranium(acute) = See 33.5(3) for details.</p> <p>*Uranium(chronic) = See 33.5(3) for details.</p> <p>*Temperature = DM and MWAT=CL,CLL from 1/1-3/31 Ruedi Reservoir DM=22.4 and MWAT=20.3 from 4/1-12/31 All others DM and MWAT=CL,CLL from 4/1-12/31</p>		chlorophyll a (ug/L)	8*DUWS	Chromium III(T)	50
		chlorophyll a (ug/L)	TVS	Chromium VI	TVS
		E. Coli (per 100 mL)	126	Copper	TVS
		Inorganic (mg/L)		Iron	WS
		acute	chronic	Iron(T)	1000
		Ammonia	TVS	Lead	TVS
		Boron	0.75	Lead(T)	50
		Chloride	250	Manganese	TVS
		Chlorine	0.019	Mercury(T)	TVS/WS
		Cyanide	0.005	Mercury(T)	0.01
		Nitrate	10	Molybdenum(T)	150
		Nitrite	0.05	Nickel	TVS
		Nitrogen	TVS	Nickel(T)	100
		Phosphorus	0.025*TVS	Selenium	TVS
		Sulfate	WS	Silver	TVS
		Sulfide	0.002	Uranium	TVS(tr)
				Uranium	varies*
				Zinc	varies*
					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

North Platte River Basin

1. All tributaries to the North Platte and Encampment Rivers, including all wetlands, within the Mount Zirkel, Never Summer, and Platte River Wilderness Areas.								
COUCNP01	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
					Iron(T)	---	1000	
					Lead	TVS	TVS	
					Lead(T)	50	---	
					Manganese	TVS	TVS/WS	
					Mercury(T)	---	0.01	
					Molybdenum(T)	---	150	
					Nickel	TVS	TVS	
					Nickel(T)	---	100	
					Selenium	TVS	TVS	
					Silver	TVS	TVS(tr)	
					Uranium	varies*	varies*	
					Zinc	TVS	TVS	
		2. Mainstem of the Encampment River, including all tributaries and wetlands, from the source to the Colorado/Wyoming border, except for those tributaries included in Segment 1.						
		COUCNP02	Classifications	Physical and Biological			Metals (ug/L)	
		Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation P	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	---	205	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
					Iron(T)	---	1000	
					Lead	TVS	TVS	
					Lead(T)	50	---	
					Manganese	TVS	TVS/WS	
					Mercury(T)	---	0.01	
					Molybdenum(T)	---	150	
					Nickel	TVS	TVS	
					Nickel(T)	---	100	
					Selenium	TVS	TVS	
					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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

North Platte River Basin

3. Mainstem of the North Platte River from the confluence of Grizzly Creek and Little Grizzly Creek to the Colorado/Wyoming border.						
COUCNP03	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
<p>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 33.5(4).</p> <p>*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).</p> <p>*Uranium(acute) = See 33.5(3) for details.</p> <p>*Uranium(chronic) = See 33.5(3) for details.</p>		chlorophyll a (mg/m ²)	---	450*TVS	Chromium III(T)	50
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Iron	---	WS
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	0.44TVS*	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS
4a. All tributaries to the North Platte River, including all wetlands, from the source to the Colorado/Wyoming border, except for those tributaries included in Segments 1, 4b, 5a, 5b, 6, 7a and 7b.						
COUCNP04A	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
<p>Temporary Modification(s):</p> <p>Arsenic(chronic) = hybrid</p> <p>Expiration Date of 12/31/2024</p> <p>*Uranium(acute) = See 33.5(3) for details.</p> <p>*Uranium(chronic) = See 33.5(3) for details.</p>		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	50
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Iron	---	WS
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	0.44TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	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

North Platte River Basin

4b. Mainstem of the Illinois River, including all tributaries and wetlands, from a point immediately below the confluence with Indian Creek to the confluence with the Michigan River, except for specific listings in Segments 7a and 7b. Mainstem of the Canadian River from below 12E Road (40.720033, -106.088912) to the confluence with the North Platte River. All tributaries to the Canadian River, including wetlands, which enter the mainstem from the southwest from below 12E Road to the confluence with the North Platte River.

COUCNP04B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Copper	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.		acute		chronic	Iron	---	WS
*Uranium(chronic) = See 33.5(3) for details.		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	---	0.44 TVS	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

5a. Mainstem of the Michigan River from the source to a point immediately below the confluence with the North Fork Michigan River.

COUCNP05A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Copper	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.		acute		chronic	Iron	---	WS
*Uranium(chronic) = See 33.5(3) for details.		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	---	0.44 TVS	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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

North Platte River Basin

5b. Mainstem of the Michigan River from a point immediately below the confluence with the North Fork Michigan River to the confluence with the North Platte River.							
COUCNP05B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation N	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *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.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	---	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	630	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

6. Mainstem of Pinkham Creek from the Routt National Forest boundary to the confluence with the North Platte River.							
COUCNP06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation N	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	---	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	630	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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

North Platte River Basin

7a. 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 Spring Creek (Number 31) Reservoir.

COUCNP07A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture			DM	MWAT		
	Reviewable	Aq Life Cold 2	Temperature °C	CS-I	CS-I	acute	chronic
		Recreation N					
Qualifiers:		D.O. (mg/L)	---	6.0	Arsenic(T)	---	7.6
Fish Ingestion Standards Apply		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m²)	---	---	Chromium III(T)	---	100
		E. Coli (per 100 mL)	---	630	Chromium VI	TVS	TVS
					Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
					Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	TVS	TVS
		Phosphorus	---	0.41TVS			
Sulfate	---	---					
Sulfide	---	0.002					

7b. Mainstem of Spring Creek from the outlet of Spring Creek (Number 31) Reservoir to the confluence with the Illinois River.

COUCNP07B	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute		chronic	
	Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
		Recreation E	acute		chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Fish Ingestion Standards Apply		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS	
Other: *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III(T)	---	100	
		chlorophyll a (mg/m²)	---	150 TVS	Chromium VI	TVS	TVS	
		E. Coli (per 100 mL)	---	126	Copper	TVS	TVS	
					Iron(T)	---	1000	
		Inorganic (mg/L)			Lead	TVS	TVS	
					Manganese	TVS	TVS	
		Ammonia	TVS	TVS	Mercury(T)	---	0.01	
		Boron	---	0.75	Molybdenum(T)	---	150	
		Chloride	---	---	Nickel	TVS	TVS	
		Chlorine	0.019	0.011	Selenium	TVS	TVS	
		Cyanide	0.005	---	Silver	TVS	TVS(tr)	
		Nitrate	100	---	Uranium	varies*	varies*	
		Nitrite	---	0.05	Zinc	TVS	TVS	
		Phosphorus	---	0.41 TVS				
		Sulfate	---	---				
		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

North Platte River Basin

8. All lakes and reservoirs tributary to the North Platte and Encampment Rivers within the Mount Zirkel, Never Summer, and Platte River Wilderness Areas.					
COUCNP08	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
OW	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic 340 ---
	Recreation E	acute	chronic	Arsenic(T) ---	0.02
	Water Supply	D.O. (mg/L) ---	6.0	Cadmium TVS	TVS
Qualifiers:		D.O. (spawning) ---	7.0	Cadmium(T) 5.0	---
Other:		pH 6.5 - 9.0	---	Chromium III ---	TVS
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. *Temperature = DM and MWAT=CL,CLL from 1/1-3/31 Blue Lake, Lower Big Twin Lake, Katherine Lake DM=CL and MWAT=16.6 from 4/1-12/31 All others DM and MWAT=CL,CLL from 4/1-12/31		chlorophyll a (ug/L) ---	8*TVS	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
		Nitrogen --- -	TVS	Nickel(T) ---	100
		Phosphorus ---	0.025*TVS	Selenium TVS	TVS
		Sulfate ---	WS	Silver TVS	TVS(tr)
		Sulfide ---	0.002	Uranium varies*	varies*
				Zinc TVS	TVS
9. All lakes and reservoirs tributary to the North Platte and Encampment Rivers except for specific listings in Segment 8.					
COUCNP09	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	varies* varies* ^B	Arsenic 340	---
	Recreation E	acute	chronic	Arsenic(T) ---	0.02
	Water Supply	D.O. (mg/L) ---	6.0	Cadmium TVS	TVS
Qualifiers:		D.O. (spawning) ---	7.0	Cadmium(T) 5.0	---
Other:		pH 6.5 - 9.0	---	Chromium III ---	TVS
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. *Temperature = See 33.6(4) for temperature standards.		chlorophyll a (ug/L) ---	8*TVS	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
		Nitrogen --- -	TVS	Nickel(T) ---	100
		Phosphorus ---	0.025*TVS	Selenium TVS	TVS
		Sulfate ---	WS	Silver TVS	TVS(tr)
		Sulfide ---	0.002	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

1. All tributaries to the Yampa River, including all wetlands, which are within the Mount Zirkel, Flat Tops and Sarvis Creek Wilderness Areas.						
COUCYA01	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
*Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		chlorophyll a (mg/m ²)	---	150TVS	Chromium III(T)	50
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Phosphorus	---	0.14TVS	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
					Uranium	varies*
					Zinc	TVS
2a. Mainstem of the Yampa River from the confluence of the Bear River and Phillips Creek to a point immediately above the confluence with Oak Creek.						
COUCYA02A	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
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.		chlorophyll a (mg/m ²)	---	150*TVS	Chromium III(T)	50
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Phosphorus	---	0.14TVS*	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
					Uranium	varies*
					Zinc	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

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	Temperature °C	varies*	varies*	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
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		chlorophyll a (mg/m²)	---	TVS	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	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *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.		chlorophyll a (mg/m²)	---	150 TVS	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	---	0.14 TVS*	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	Temperature °C	CS-I	CS-I	Arsenic	340	---
		Recreation E		acute	chronic	Arsenic(T)	---	0.02
		Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *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.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
			acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.14 TVS*	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	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

4. Mainstem of Little White Snake Creek from the source to the confluence with the Yampa River.

COUCYA04	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation N	acute	chronic		Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*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.		chlorophyll a (mg/m ²)	---	---	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	630	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	---	0.44TVS*	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

5. Mainstem of Chimney Creek and Phillips Creek, including all tributaries and wetlands, which are not on National Forest lands, from their sources to the confluence with the Yampa River.

COUCYA05	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Water Supply	acute	chronic		Arsenic(T)	---	0.02
	Recreation P	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		chlorophyll a (mg/m ²)	---	150TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	205	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	---	0.44TVS	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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Yampa River Basin

6. Mainstem of Oak Creek, including all tributaries and wetlands, from the source to a point 0.25 mile below County Road 27 (40.279241, -106.965405).							
COUCYA06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 33.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
7. Mainstem of Oak Creek, including all tributaries and wetlands, from a point 0.25 mile below County Road 27 (40.279241, -106.965405) to the confluence with the Yampa River.							
COUCYA07	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation P	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150* TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
Discharger Specific Variance(s):		Inorganic (mg/L)			Iron	---	WS
Nitrate(acute) = See Section 33.6(c) for details on variance for the Town of Oak Creek.		acute	chronic	Iron(T)	---	1000	
Expiration Date of 6/30/2026		Ammonia	TVS	TVS	Lead	TVS	TVS
*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 33.5(4).		Boron	---	0.75	Lead(T)	50	---
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).		Chloride	---	250	Manganese	TVS	TVS/WS
*Uranium(acute) = See 33.5(3) for details.		Chlorine	0.019	0.011	Mercury(T)	---	0.01
*Uranium(chronic) = See 33.5(3) for details.		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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

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 Segments 1 and 20a. Mainstem of the West Fork Elk River from the source to the confluence with the Yampa River.

COUCYA08	Classifications	Physical and Biological		Metals (ug/L)	
Designation Reviewable	Agriculture	DM	MWAT	acute	chronic
	Aq Life Cold 1	Temperature °C	CS-I CS-I	Arsenic	340 ---
	Recreation E	acute	chronic	Arsenic(T)	--- 0.02
	Water Supply	D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS
Qualifiers:		D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---
Other:		pH	6.5 - 9.0 ---	Chromium III	--- TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	--- 150 TVS	Chromium III(T)	50 ---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	--- 126	Chromium VI	TVS TVS
Expiration Date of 12/31/2024				Copper	TVS TVS
*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.		Inorganic (mg/L)		Iron	--- WS
		acute	chronic	Iron(T)	--- 1000
		Ammonia	TVS TVS	Lead	TVS TVS
		Boron	--- 0.75	Lead(T)	50 ---
		Chloride	--- 250	Manganese	TVS TVS/WS
		Chlorine	0.019 0.011	Mercury(T)	--- 0.01
		Cyanide	0.005 ---	Molybdenum(T)	--- 150
		Nitrate	10 ---	Nickel	TVS TVS
		Nitrite	--- 0.05	Nickel(T)	--- 100
		Phosphorus	--- 0.44 TVS*	Selenium	TVS TVS
		Sulfate	--- WS	Silver	TVS TVS(tr)
		Sulfide	--- 0.002	Uranium	varies* varies*
				Zinc	TVS TVS/TVS(sc)

9. Deleted.

COUCYA09	Classifications	Physical and Biological		Metals (ug/L)	
Designation		DM	MWAT	acute	chronic
Qualifiers:		acute	chronic		
Other:					
		Inorganic (mg/L)			
		acute	chronic		

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

10. Deleted.						
COUCYA10	Classifications	Physical and Biological		Metals (ug/L)		
Designation		DM	MWAT	acute	chronic	
Qualifiers:		acute	chronic			
Other:		Inorganic (mg/L)				
		acute	chronic			
11. Fish Creek, including all tributaries and wetlands, from the source to County Road 27 (40.355559, -107.105131), except for specific listings in Segment 20a.						
COUCYA11	Classifications	Physical and Biological		Metals (ug/L)		
Designation		DM	MWAT	acute	chronic	
Reviewable	Agriculture	CS-I	CS-I	Arsenic	340	---
	Aq Life Cold 1	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	6.0	Cadmium	TVS	TVS
	Recreation N	D.O. (spawning)	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	Chromium III	---	TVS
Other:		chlorophyll a (mg/m ²)	---	Chromium III(T)	50	---
Temporary Modification(s):		E. Coli (per 100 mL)	630	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid		Inorganic (mg/L)		Copper	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic	Iron	---	WS
*Uranium(acute) = See 33.5(3) for details.		Ammonia	TVS	Iron(T)	---	1000
*Uranium(chronic) = See 33.5(3) for details.		Boron	0.75	Lead	TVS	TVS
		Chloride	250	Lead(T)	50	---
		Chlorine	0.019	Manganese	TVS	TVS/WS
		Cyanide	0.005	Manganese(T)	---	200
		Nitrate	10	Mercury(T)	---	0.01
		Nitrite	0.05	Molybdenum(T)	---	150
		Phosphorus	0.14TVS	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)

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

12. All tributaries to the Yampa River, including all wetlands, from above the confluence with the Elk River to above the confluence with Elkhead Creek, except for specific listings in Segments 8, 11, 13a-13j and 20a.

COUCYA12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 2 Recreation N	Temperature °C	CS-II	CS-II	Arsenic	340	---
Qualifiers:		acute	chronic		Arsenic(T)	---	100
		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
*Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		chlorophyll a (mg/m ²)	---	---	Chromium VI	TVS	TVS
		E. Coli (per 100 mL)	---	630	Copper	TVS	TVS
		Inorganic (mg/L)			Iron(T)	---	1000
		acute	chronic		Lead	TVS	TVS
		Ammonia	TVS	TVS	Manganese	TVS	TVS
		Boron	---	0.75	Manganese(T)	---	200
		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(tr)
		Phosphorus	---	0.14 TVS	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

13a. Mainstem of Trout Creek, including all tributaries and wetlands, from the source to the headgate of Spruce Hill Ditch (40.317190, -107.005110), except for specific listings in Segments 1 and 20a. Mainstem of Middle Creek, including all tributaries and wetlands, from the source to County Road 27 (40.339183, -107.025533), except for specific listings in Segment 20a.

COUCYA13A	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:		acute	chronic		Arsenic(T)	---	0.02
		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024		chlorophyll a (mg/m ²)	---	450 TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		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	---	0.14 TVS	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

13b. Mainstem of Foidel Creek, including all tributaries and wetlands, from the source to the confluence with Middle Creek. Mainstem of Fish Creek, including all tributaries and wetlands, from County Road 27 (40.355559, -107.105131) to the confluence with Trout Creek, except for specific listings in Segment 13g. Mainstem of Middle Creek, including all tributaries and wetlands, from County Road 27 (40.339183, -107.025533) to the confluence with Trout Creek.

COUCYA13B	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Warm 1	Temperature °C	varies*	varies*	
	Recreation E	acute	chronic		
Qualifiers:		D.O. (mg/L)	---	6.0	
Other: *Iron(T)(chronic) = See section 33.6(4) for standards and assessment locations for Foidel Creek and Middle Creek. *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. *Temperature = See 33.6(4) for temperature standards.		D.O. (spawning)	---	7.0	
		pH	6.5 - 9.0	---	
		chlorophyll a (mg/m ²)	---	150 TVS	
		E. Coli (per 100 mL)	---	126	
		Inorganic (mg/L)			
		acute	chronic		
		Ammonia	TVS	TVS	
		Boron	---	0.75	
		Chloride	---	---	
		Chlorine	0.019	0.011	
		Cyanide	0.005	---	
		Nitrate	100	---	
		Nitrite	---	0.05	
		Phosphorus	---	0.44 TVS	
		Sulfate	---	---	
		Sulfide	---	0.002	
				Lead	TVS
				Iron(T)	---
				Iron(T)	1000
				Manganese	TVS
				Mercury(T)	---
				Molybdenum(T)	---
				Nickel	TVS
				Selenium	TVS
				Silver	TVS
				Uranium	varies*
				Zinc	TVS

13c. Mainstem of Trout Creek, including all tributaries and wetlands, from the headgate of Spruce Hill Ditch (40.317190, -107.005110) to the confluence with Fish Creek, except for specific listings in Segment 13b.

COUCYA13C	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	
	Recreation E	acute	chronic		
	Water Supply	D.O. (mg/L)	---	6.0	
Qualifiers:		D.O. (spawning)	---	7.0	
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	
		chlorophyll a (mg/m ²)	---	150 TVS	
		E. Coli (per 100 mL)	---	126	
		Inorganic (mg/L)			
		acute	chronic		
		Ammonia	TVS	TVS	
		Boron	---	0.75	
		Chloride	---	250	
		Chlorine	0.019	0.011	
		Cyanide	0.005	---	
		Nitrate	10	---	
		Nitrite	---	0.05	
		Phosphorus	---	0.44 TVS	
		Sulfate	---	WS	
		Sulfide	---	0.002	
				Lead	TVS
				Lead(T)	50
				Manganese	TVS
				Mercury(T)	---
				Molybdenum(T)	---
				Nickel	TVS
				Nickel(T)	---
				Selenium	TVS
				Silver	TVS
				Uranium	varies*
				Zinc	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

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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	Temperature °C	WS-II	WS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS
Other: *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.		pH	6.5 - 9.0	---	Chromium III	TVS
		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron(T)	---	varies*
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Manganese	TVS
		Chloride	---	---	Mercury(T)	---
		Chlorine	0.019	0.011	Molybdenum(T)	---
		Cyanide	0.005	---	Nickel	TVS
		Nitrate	100	---	Selenium	TVS
		Nitrite	---	0.05	Silver	TVS
		Phosphorus	---	0.47 TVS	Uranium	varies*
		Sulfate	---	---	Zinc	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	Temperature °C	WS-II	WS-II	Arsenic	340
	Water Supply	acute	chronic	Arsenic(T)	---	0.02-10 ^A
	Recreation N	D.O. (mg/L)	---	5.0	Cadmium	TVS
		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Qualifiers:		chlorophyll a (mg/m ²)	---	---	Chromium III	---
Other: 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		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	---
		Boron	---	0.75	Iron(T)	---
		Chloride	---	250	Iron(T)	1000
		Chlorine	0.019	0.011	Lead	TVS
		Cyanide	0.005	---	Lead(T)	50
		Nitrate	10	---	Manganese	TVS
		Nitrite	---	0.05	Mercury(T)	---
		Phosphorus	---	0.47 TVS	Molybdenum(T)	---
		Sulfate	---	WS	Nickel	TVS
		Sulfide	---	0.002	Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	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	Temperature °C	varies*	varies*	Arsenic 340 ---
	Recreation E	acute	chronic	Arsenic(T) --- 0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium TVS TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T) 5.0 ---
Other:		pH	6.5 - 9.0	---	Chromium III --- TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T) 50 ---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI TVS TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)		Copper TVS TVS	
*Uranium(acute) = See 33.5(3) for details.		acute	chronic	Iron --- WS	
*Uranium(chronic) = See 33.5(3) for details.		Ammonia	TVS	TVS	Iron(T) --- 1000
*Temperature =		Boron	---	0.75	Lead TVS TVS
See 33.6(4) for temperature standards.		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	---	0.44TVS	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	Temperature °C	WS-II	WS-II	Arsenic 340 ---
	Recreation E	acute	chronic	Arsenic(T) --- 7.6	
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium TVS TVS
Other:		pH	6.5 - 9.0	---	Chromium III TVS TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T) --- 100
Selenium(chronic) = current conditions*		E. Coli (per 100 mL)	---	126	Chromium VI TVS TVS
Expiration Date of 12/31/2023		Inorganic (mg/L)		Copper TVS TVS	
*Uranium(acute) = See 33.5(3) for details.		acute	chronic	Iron(T) --- 1000	
*Uranium(chronic) = See 33.5(3) for details.		Ammonia	TVS	TVS	Lead TVS TVS
*TempMod: Selenium = Adopted 6/9/2014		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	---	0.47TVS	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

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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
Other:		pH	6.5 - 9.0	---	Chromium III	TVS
		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Manganese	TVS
		Chloride	---	---	Mercury(T)	---
		Chlorine	0.019	0.011	Molybdenum(T)	---
		Cyanide	0.005	---	Nickel	TVS
		Nitrate	100	---	Selenium	TVS
		Nitrite	---	0.05	Silver	TVS
		Phosphorus	---	0.47 TVS	Uranium	varies*
		Sulfate	---	---	Zinc	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
Other:		pH	6.5 - 9.0	---	Chromium III	TVS
		chlorophyll a (mg/m ²)	---	---	Chromium III(T)	---
		E. Coli (per 100 mL)	---	630	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Manganese	TVS
		Chloride	---	---	Mercury(T)	---
		Chlorine	0.019	0.011	Molybdenum(T)	---
		Cyanide	0.005	---	Nickel	TVS
		Nitrate	100	---	Selenium	TVS
		Nitrite	---	0.05	Silver	TVS
		Phosphorus	---	0.47 TVS	Uranium	varies*
		Sulfate	---	---	Zinc	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

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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	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation N	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):		chlorophyll a (mg/m²)	---	---	Chromium III(T)	---	100
Selenium(chronic) = current conditions*		E. Coli (per 100 mL)	---	630	Chromium VI	TVS	TVS
Expiration Date of 12/31/2023		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic		Iron(T)	---	1000
*Uranium(acute) = See 33.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 33.5(3) for details.		Boron	---	0.75	Manganese	TVS	TVS
*TempMod: Selenium = Adopted 12/11/2017		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	---	0.47 TVS	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	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Uranium(acute) = See 33.5(3) for details.		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
Uranium(chronic) = See 33.5(3) for details.		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	---	0.44 TVS	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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

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15. Mainstem of Elkhead Creek, including all tributaries and wetlands, from a point immediately below the confluence with Calf Creek to the confluence with the Yampa River. Dry Fork Elkhead Creek, including all tributaries and wetlands, from a point immediately below 80A Road (40.612676, -107.228533) to the confluence with Elkhead Creek.							
COUCYA15	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		chlorophyll a (mg/m²)	---	450TVS	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)	---	150
		Phosphorus	---	0.17TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
			Zinc	TVS	TVS		
16. Deleted.							
COUCYA16	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT	acute		chronic	
Qualifiers:		acute	chronic				
Other:							
		Inorganic (mg/L)					
		acute	chronic				

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

17. Deleted.

COUCYA17	Classifications	Physical and Biological		Metals (ug/L)	
Designation		DM	MWAT	acute	chronic
Qualifiers:		acute	chronic		
Other:					
		Inorganic (mg/L)			
		acute	chronic		

18. South Fork Little Snake River and Middle Fork Little Snake River, including all tributaries and wetlands, from their sources to the confluence with the Little Snake River, which are not on National Forest lands. North Fork Little Snake River, including all tributaries and wetlands, from the Colorado/Wyoming border to the confluence with the Little Snake River.

COUCYA18	Classifications	Physical and Biological		Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)		Iron	---	WS	
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)

*Uranium(acute) = See 33.5(3) for details.
*Uranium(chronic) = See 33.5(3) for details.

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.

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19. All tributaries to the South Fork Little Snake River and Middle Fork Little Snake River, including all wetlands, which are on National Forest lands in Routt County.							
COUCYA19	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)
20a. All tributaries to the Yampa River, including all wetlands, from above the confluence with the Elk River to below the confluence with Elkhead Creek, which are on National Forest lands, except for specific listings in Segment 20b.							
COUCYA20A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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

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20b. Mainstem of First Creek from the eastern boundary of state lands in California Park (40.731309, -107.141684) to the confluence with Elkhead Creek. Mainstem of Elkhead Creek from the eastern boundary of state lands in California Park (40.743796, -107.141684) to the National Forest boundary.

COUCYA20B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation N	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	---	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	630	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

21. All lakes and reservoirs tributary to the Yampa River within the Mount Zirkel, Flat Tops and Sarvis Creek Wilderness Areas, except for those lakes and reservoirs included in Lower Yampa River Segment 28.

COUCYA21	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
OW	Aq Life Cold 1	Temperature °C	CL,CLL	CL,CLL	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (ug/L)	---	8 TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		<u>Nitrogen</u>	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	0.025 TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS

*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.

*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.

*Uranium(acute) = See 33.5(3) for details.

*Uranium(chronic) = See 33.5(3) for details.

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

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22. All lakes and reservoirs tributary to the Yampa River from the source to the confluence with Elkhead Creek, except for those listed in Segment 21. All lakes and reservoirs tributary to Elkhead Creek from the source to the confluence with the Yampa River, except for specific listings in Segment 23. All lakes and reservoirs tributary to the Little Snake River, including those on National Forest lands.

COUCYA22	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	varies* varies* B	Arsenic	340 ---
	Recreation E	acute	chronic	Arsenic(T)	--- 0.02
	Water Supply	D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS
	DUWS*	D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---
Qualifiers:		pH	6.5 - 9.0 ---	Chromium III	--- TVS
Other: *chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 33.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.*Classification: DUWS applies to Stagecoach Reservoir, Steamboat Lake, and Yampa River Holding Pond. *Classification: DUWS Applies only to Stagecoach Res. Steamboat Lake and Yampa River Holding Pond.*Nitrogen(chronic) = applies only above the facilities listed at 33.5(4) and in DUWS waterbodies. *Phosphorus(chronic) = applies only above the facilities listed at 33.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.) and in DUWS waterbodies. *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. *Temperature = See 33.6(4) for temperature standards.		chlorophyll a (ug/L)	--- 8*DUWS	Chromium III(T)	50 ---
		chlorophyll a (ug/L)	--- TVS	Chromium VI	TVS TVS
		E. Coli (per 100 mL)	--- 126	Copper	TVS TVS
		Inorganic (mg/L)		Iron	--- WS
		acute	chronic	Iron(T)	--- 1000
		Ammonia	TVS TVS	Lead	TVS TVS
		Boron	--- 0.75	Lead(T)	50 ---
		Chloride	--- 250	Manganese	TVS TVS/WS
		Chlorine	0.019 0.011	Mercury(T)	--- 0.01
		Cyanide	0.005 ---	Molybdenum(T)	--- 150
		Nitrate	10 ---	Nickel	TVS TVS
		Nitrite	--- 0.05	Nickel(T)	--- 100
		Nitrogen	--- - TVS*	Selenium	TVS TVS
		Phosphorus	--- 0.025TVS*	Silver	TVS TVS(tr)
		Sulfate	--- WS	Uranium	varies* varies*
		Sulfide	--- 0.002	Zinc	TVS TVS

23. Elkhead Reservoir

COUCYA23	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Warm 1	Temperature °C	WL WL	Arsenic	340 ---
	Recreation E	acute	chronic	Arsenic(T)	--- 0.02
	Water Supply	D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS
Qualifiers:		D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---
Other: *chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 33.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.) *Phosphorus(chronic) = applies only above the facilities listed at 33.5(4); applies only to lakes and reservoirs larger than 25 acres surface area.) *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0 ---	Chromium III	--- TVS
		chlorophyll a (ug/L)	--- 8*TVS	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
		Nitrogen	--- - TVS	Nickel(T)	--- 100
		Phosphorus	--- 0.025TVS*	Selenium	TVS TVS
		Sulfate	--- WS	Silver	TVS TVS
		Sulfide	--- 0.002	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.

DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Water Quality Control Commission

REGULATION NO. 34 - CLASSIFICATIONS AND NUMERIC STANDARDS FOR SAN JUAN RIVER AND DOLORES RIVER BASINS

5 CCR 1002-34

34.1 AUTHORITY

These regulations are promulgated pursuant to section 25-8-101 et seq. C.R.S., as amended, and in particular, 25-8-203 and 25-8-204.

34.2 PURPOSE

These regulations establish classifications and numeric standards for the San Juan and the Dolores River Basins, including all tributaries and standing bodies of water south of the northern Dolores County lines, as indicated in section 34.6. The classifications identify the actual beneficial uses of the water. The numeric standards are assigned to determine the allowable concentrations of various parameters. Discharge permits will be issued by the Water Quality Control Division to comply with basic, narrative, and numeric standards and control regulations so that all discharges to waters of the state protect the classified uses. It is intended that these and all other stream classifications and numeric standards be used in conjunction with and be an integral part of Regulation No. 31 Basic Standards and Methodologies for Surface Water.

34.3 INTRODUCTION

These regulations and tables present the classifications and numeric standards assigned to stream segments listed in the attached tables (See Appendix 34-1). As additional stream segments are classified and numeric standards for designated parameters are assigned for this drainage system, they will be added to or replace the numeric standards in the tables in Appendix 34-1. Any additions or revisions of classifications or numeric standards can be accomplished only after public hearing by the Commission and proper consideration of evidence and testimony as specified by the statute and the "basic regulations".

34.4 DEFINITIONS

See the Colorado Water Quality Control Act and the codified water quality regulations for definitions.

34.5 BASIC STANDARDS

(1) Temperature

All waters of the San Juan/Dolores River Basin are subject to the following standard for temperature. (Discharges regulated by permits, which are within the permit limitations, shall not be subject to enforcement proceedings under this standard). Temperature shall maintain a normal pattern of diurnal and seasonal fluctuations with no abrupt changes and shall have no increase in temperature of a magnitude, rate, and duration deemed deleterious to the resident aquatic life. This standard shall not be interpreted or applied in a manner inconsistent with section 25-8-104, C.R.S.

(2) Qualifiers

See Basic Standards and Methodologies for Surface Water for a listing of organic standards at 31.11 Table B and metal standards found at 31.16 Table III. The column in the tables headed "Water + Fish" are presumptively applied to all aquatic life class 1 streams which also have a water supply classification, and are applied to aquatic life class 2 streams which also have a water supply classification, on a case-by-case basis as shown in the Appendix 34-1. The column in the tables at 31.11 and 31.16 Table III headed "Fish Ingestion" is presumptively applied to all aquatic life class 1 streams which do not have a water supply classification, and are applied to aquatic life class 2 streams which do not have a water supply classification, on a case-by-case basis as shown in Appendix 34-1.

(3) Uranium

- (a) All waters of the San Juan/Dolores River Basin, are subject to the following basic standard for uranium, unless otherwise specified by a water quality standard applicable to a particular segment. However, discharges of uranium regulated by permits which are within these permit limitations shall not be a basis for enforcement proceedings under this basic standard.
- (b) Uranium level in surface waters shall be maintained at the lowest practicable level.
- (c) In no case shall uranium levels in waters assigned a water supply classification be increased by any cause attributable to municipal, industrial, or agricultural discharges so as to exceed 16.8-30 µg/L or naturally-occurring concentrations (as determined by the State of Colorado), whichever is greater.
 - (i) The first number in the 16.8-30 µg/L 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.

(4) Indian Reservations

Some of the waterbodies in the San Juan/Dolores River Basin cross boundaries of Indian Reservations of the Southern Ute and Ute Mountain Ute Tribes. The Commission has included water quality classifications and standards on lands within the boundaries of these reservations in order to avoid a gap in the classifications and standards adopted for the river basins in question. EPA has granted the Southern Ute and Ute Mountain Ute Indian tribes' applications for treatment as a state with respect to adoption of water quality standards. The Commission intends that the classifications and standards that it is adopting apply to the lands in question only to the extent that the state has jurisdiction and is not attempting to resolve that jurisdictional issue here. Segments within Reservation boundaries are noted in the segment description and Appendix 34-1 tables.

(5) Nutrients

See Basic Standards and Methodologies for Surface Water at 31.17 for a listing of chlorophyll a, total nitrogen, and total phosphorus standards for lakes and reservoirs (Table V) and rivers and streams (Table VI). As described in 31.17(2), total nitrogen and total phosphorus standards will be considered for adoption in phases.

Prior to ~~May 31, 2022, interim nutrient~~December 31, 2027, total nitrogen and total phosphorus values will be considered for adoption only in the limited circumstances defined at 31.17(e). ~~These~~2)(a)(i) and (ii). For lakes and reservoirs, these circumstances include ~~headwaters, waterbodies upstream of certain domestic and non-domestic wastewater treatment facilities (31.17(2)(a)(i)(A)), waterbodies with a Direct Use Water Supply (DUWS) Lakes and Reservoirs, sub-classification (31.17(2)(a)(i)(B)), waterbodies with public swim beaches (31.17(2)(a)(i)(C)), and other special circumstances determined by the Commission. Additionally, prior to May 31, 2017, only total phosphorus and chlorophyll a will be considered for adoption. After May 31, 2017, total nitrogen will be considered for adoption per the (31.17(2)(a)(i)(D)). For rivers and streams, these circumstances outlined in 31.17(e).~~

Prior to May 31, 2022, nutrient criteria will be adopted for headwaters on a segment by segment basis for the San Juan River Basin. Moreover, pursuant to 31.17(e) nutrient standards will only be adopted for waters upstream of all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012, and any non-domestic include waterbodies upstream of certain domestic and non-domestic wastewater treatment facilities subject to Regulation 85 effluent limits and discharging prior to May 31, 2012. ~~The~~(31.17(2)(a)(ii)(A)) and other special circumstances determined by the Commission (31.17(2)(a)(ii)(B)).

Pursuant to 31.17(2)(a)(i)(A) and 31.17(2)(a)(ii)(A), the following is a list of all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012, cooling tower discharges, and any non-domestic facilities subject to Regulation 85 effluent limits and discharging prior to May 31, 2012 in the San Juan River Basin:

Segment	Permittee	Facility name	Permit No.
COSJSJ05	San Juan River Village Metro	San Juan River Village Metro WWTF	COG588013
COSJSJ06a	High Country Lodge LLC	High Country Lodge	COG588002
COSJSJ06b	Pagosa Springs Sanitation District	Pagosa Springs San District WWTF	CO0022845
COSJPI06d	Pagosa Area Water and San Dist	Vista WWTF	CO0031755
COSJPN02a	Bayfield Town of	Bayfield Town of	CO0048291
COSJPN02a	Five Branches Camper Park	Five Branches Camper Park	COG588054
COSJPN02a	Forest Lake Metro Dist	Forest Lakes Metro District	CO0048160
COSJPN02a	Pine River Camp LLC	Kanakuk Colorado Youth Camp	COG588059
COSJPN04	Lipslea Enterprises LLC	Vallecito Resort	COG588026
COSJAF03b	Silverton Town of	Silverton Town of WWTF	CO0020311
COSJAF04b	Herrick Durango Land Co LLC	Durango North Ponderosa KOA	COG588020
COSJAF05a	Hermosa Sanitation District	Hermosa Sanitation District	COG588010
COSJAF05a	Durango City of	Durango City of	CO0024082
COSJAF05a	South Durango Sanitation District	South Durango SD WWTF	COG588057
COSJAF10a	Edgemont Ranch Metro Dist	Edgemont Ranch Metro District WWTF	CO0040266
COSJAF10b	Forest Groves Estates	Forest Groves Estates WWTP	COG588030
COSJAF11b	Durango La Plata County Airport	Durango/La Plata County Airport	CO0047457
COSJAF12a	Grizzly Peak Water Sales&Distribution LLC	Cascade Village WWTF	CO0039691

Segment	Permittee	Facility name	Permit No.
COSJAF12a	Purgatory Metropolitan District	Purgatory Metropolitan Dist	COG589010
COSJAF13c	Durango West Metro Dist #2	Durango West Metro Dist #2 WWTF	COG589115
COSJAF13d	Narrow Gauge MHP	Narrow Gauge MHP	COG589077
COSJAF14b	MacArthur Apartments LLC	Lightner Creek Campground	CO0026468
COSJLP05	Mancos Town of	Mancos Town of	CO0021687
COSJLP05	Upper Valley Sanitation	Upper Valley Sanitation Dist.	CO0047147
COSJLP07a	Cortez Sanitation District	Southwest WWTF	CO0027545
COSJLP07a	Vista Verde Village LLC	Vista Verde Village	CO0037702
COSJLP08	Elegant Hills Park and Estates LLC	Lakeside WWTF	COG589098
COSJLP09	Lee Mobile Home Park	Lee Mobile Home Park	COG589070
COSJLP10	Dove Creek Town of	Dove Creek WWTF	COG589079
COSJDO04a	Fort Beyhan LLC	Dolores River RV Park and Cabins	COG588071
COSJDO04a	Dolores Town of	Dolores WWTF	CO0040509

Prior to ~~May~~December 31, ~~2022~~2027:

- For segments located entirely above these facilities, ~~nutrient~~total nitrogen and total phosphorus standards apply to the entire segment.
- For segments with portions downstream of these facilities, ~~nutrient~~total nitrogen and total phosphorus standards only apply above these facilities, except where a waterbody has a DUWS sub-classification or public swim beach. A note was added to the total phosphorus and ~~chlorophyll a~~total nitrogen standards in these segments. The note references the table of qualified facilities at 34.5(5).
- For segments located entirely below these facilities, ~~nutrient~~total nitrogen and total phosphorus standards do not apply, except where a waterbody has a DUWS sub-classification or public swim beach.
- Additionally, for segments with portions downstream of these facilities or for segments located entirely below these facilities, total nitrogen and total phosphorus standards may apply where special circumstances have been identified by the Commission (31.17(2)(a)(i)(D) and 31.17(2)(a)(ii)(B)).

~~A note was added to the total phosphorus and chlorophyll a standards in lakes segments as nutrients standards apply only to lakes and reservoirs larger than 25 acres surface area.~~

34.6 TABLES

(1) Introduction

The numeric standards for various parameters in this regulation and in the tables in Appendix 34-1 were assigned by the Commission after a careful analysis of the data presented on actual stream conditions and on actual and potential water uses. For each parameter listed in the tables in Appendix 34-1, only the most stringent standard is shown. Additional, less stringent standards may apply to protect additional uses and can be found in the tables in Regulation No. 31.

Numeric standards are not assigned for all parameters listed in the tables in Regulation No. 31. If additional numeric standards are found to be needed during future periodic reviews, they can be assigned by following the proper hearing procedures.

(2) Abbreviations:

- (a) The following abbreviations are used in this regulation and the tables in Appendix 34-1:

ac	=	acute (1-day)
AEL	=	alternative effluent limit
°C	=	degrees Celsius
ch	=	chronic (30-day)
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
DM	=	daily maximum temperature
D.O.	=	dissolved oxygen
DUWS	=	direct use water supply
<i>E. coli</i>	=	Escherichia coli
mg/L	=	milligrams per liter
MWAT	=	maximum weekly average temperature
OW	=	outstanding waters
sc	=	sculpin
sp	=	spawning
SSE	=	site-specific equation
t	=	total
T	=	total recoverable
tr	=	trout
TVS	=	table value standard
µg/L	=	micrograms per liter
UP	=	use-protected
WL	=	warm lake temperature tier
WS	=	water supply
WS-II	=	warm stream temperature tier two
WS-III	=	warm stream temperature tier three

(b) In addition, the following abbreviations are used:

Iron (chronic)	=	WS
Manganese (chronic)	=	WS
Sulfate (chronic)	=	WS

These abbreviations mean: For all surface waters with an actual water supply use, the less restrictive of the following two options shall apply as numerical standards, as specified in the Basic Standards and Methodologies at 31.16 Table II and III:

- (i) existing quality as of January 1, 2000; or
- (ii)

Iron	=	300 µg/L (dissolved)
Manganese	=	50 µg/L (dissolved)
Sulfate	=	250 mg/L (dissolved)

For all surface waters with a “water supply” classification that are not in actual use as a water supply, no water supply standards are applied for iron, manganese or sulfate, unless the Commission determines as the result of a site-specific rulemaking hearing that such standards are appropriate.

(c) Temporary Modification for Water + Fish Chronic Arsenic Standard

- (i) The temporary modification for chronic arsenic standards applied to segments with an arsenic standard of 0.02 µg/L that has been set to protect the Water + Fish qualifier is listed in the Other column in Appendix 34-1 tables as As(ch)=hybrid.

- (ii) For discharges existing on or before 6/1/2013, the temporary modification is: As(ch)=current condition, expiring on 12/31/2024. Where a permit for an existing discharge is reissued or modified while the temporary modification is in effect, the division will include additional permit Terms and Conditions, which may include requirements for additional monitoring, source identification, and characterization of source control and treatment options for reducing arsenic concentrations in effluent.
- (iii) For new or increased discharges commencing on or after 6/1/2013, the temporary modification is: As(ch)=0.02-3.0 µg/L (total recoverable), expiring on 12/31/2024.
- (a) The first number in the range is the health-based water quality standard previously adopted by the Commission for the segment.
- (b) The second number in the range is a technology-based value established by the Commission for the purpose of this temporary modification.
- (c) 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.
- (3) Table Value Standards

In certain instances in the tables in Appendix 34-1, the designation “TVS” is used to indicate that for a particular parameter a “table value standard” has been adopted. This designation refers to numerical criteria set forth in the Basic Standards and Methodologies for Surface Water. The criteria for which the TVS are applicable are on the following table.

TABLE VALUE STANDARDS
(Concentrations in µg/L unless noted)

PARAMETER ⁽¹⁾	TABLE VALUE STANDARDS ⁽²⁾⁽³⁾
Aluminum(T)	<p>Acute = $e^{(1.3695 \ln(\text{hardness}) + 1.8308)}$</p> <p>pH equal to or greater than 7.0</p> <p>Chronic = $e^{(1.3695 \ln(\text{hardness}) - 0.1158)}$</p> <p>pH less than 7.0</p> <p>Chronic = $e^{(1.3695 \ln(\text{hardness}) - 0.1158)}$ or 87, whichever is less</p>
Ammonia ⁽⁴⁾	<p>Cold Water = (mg/L as N) Total</p> $acute = \frac{0.275}{1 + 10^{7.204 - pH}} + \frac{39.0}{1 + 10^{pH - 7.204}}$ $chronic = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * MIN \left(2.85, 1.45 * 10^{0.028(25 - T)} \right)$ <p>Warm Water = (mg/L as N) Total</p> $acute = \frac{0.411}{1 + 10^{7.204 - pH}} + \frac{58.4}{1 + 10^{pH - 7.204}}$ $chronic (Apr1 - Aug31) = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * MIN \left(2.85, 1.45 * 10^{0.028(25 - T)} \right)$ $chronic (Sep1 - Mar31) = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * 1.45 * 10^{0.028 * (25 - MAX(T, 7))}$

Cadmium	$\text{Acute(warm)}^{(5)} = (1.136672 - (\ln(\text{hardness}) * 0.041838)) * e^{(0.9789 * \ln(\text{hardness}) - 3.443)}$ $\text{Acute(cold)}^{(5)} = (1.136672 - (\ln(\text{hardness}) * 0.041838)) * e^{(0.9789 * \ln(\text{hardness}) - 3.866)}$ $\text{Chronic} = (1.101672 - (\ln(\text{hardness}) * 0.041838)) * e^{(0.7977 * \ln(\text{hardness}) - 3.909)}$					
<u>Chlorophyll a⁽⁶⁾</u>	<u>See 31.17 TVS for Aquatic Life and/or Recreation and Direct Use Water Supply (DUWS).</u>					
Chromium III ⁽⁷⁶⁾	$\text{Acute} = e^{(0.819 * \ln(\text{hardness}) + 2.5736)}$ $\text{Chronic} = e^{(0.819 * \ln(\text{hardness}) + 0.5340)}$					
Chromium VI ⁽⁷⁶⁾	$\text{Acute} = 16$ $\text{Chronic} = 11$					
Copper	$\text{Acute} = e^{(0.9422 * \ln(\text{hardness}) - 1.7408)}$ $\text{Chronic} = e^{(0.8545 * \ln(\text{hardness}) - 1.7428)}$					
Lead	$\text{Acute} = (1.46203 - (\ln(\text{hardness}) * 0.145712)) * e^{(1.273 * \ln(\text{hardness}) - 1.46)}$ $\text{Chronic} = (1.46203 - (\ln(\text{hardness}) * 0.145712)) * e^{(1.273 * \ln(\text{hardness}) - 4.705)}$					
Manganese	$\text{Acute} = e^{(0.3331 * \ln(\text{hardness}) + 6.4676)}$ $\text{Chronic} = e^{(0.3331 * \ln(\text{hardness}) + 5.8743)}$					
Nickel	$\text{Acute} = e^{(0.846 * \ln(\text{hardness}) + 2.253)}$ $\text{Chronic} = e^{(0.846 * \ln(\text{hardness}) + 0.0554)}$					
<u>Nitrogen⁽⁶⁾</u>	<u>See 31.17 TVS for Aquatic Life and/or Recreation.</u>					
<u>Phosphorus⁽⁶⁾</u>	<u>See 31.17 TVS for Aquatic Life and/or Recreation.</u>					
Selenium ⁽⁸⁷⁾	$\text{Acute} = 18.4$ $\text{Chronic} = 4.6$					
Silver	$\text{Acute} = 0.5 * e^{(1.72 * \ln(\text{hardness}) - 6.52)}$ $\text{Chronic} = e^{(1.72 * \ln(\text{hardness}) - 9.06)}$ $\text{Chronic(Trout)} = e^{(1.72 * \ln(\text{hardness}) - 10.51)}$					
Temperature	TEMPERATURE TIER	TIER CODE	SPECIES EXPECTED TO BE PRESENT	APPLICABLE MONTHS	TEMPERATURE STANDARD (°C)	
	Cold Stream Tier I	CS-I	brook trout, cutthroat trout	June – Sept.	MWAT	DM
				Oct. – May	17.0	21.7
	Cold Stream Tier II	CS-II	all other cold-water species	April – Oct.	9.0	13.0
				Nov. – March	18.3	24.3
	Cold Lakes	CL	brook trout, brown trout, cutthroat trout, lake trout, rainbow trout, Arctic grayling, sockeye salmon	April – Dec.	9.0	13.0
				Jan. – March	17.0	21.2
	Cold Large Lakes (>100 acres surface area)	CLL	rainbow trout, brown trout, lake trout	April – Dec.	18.3	24.2
				Jan. – March	9.0	13.0
	Warm Stream Tier II	WS-II	brook stickleback, central stoneroller, creek chub, longnose dace, northern redbelly dace, finescale dace, razorback sucker, white sucker, mountain sucker	March – Nov.	27.5	28.6
				Dec. – Feb.	13.8	25.2
	Warm Stream Tier III	WS-III	all other warm-water species	March – Nov.	28.7	31.8
				Dec. – Feb.	14.3	24.9
	Warm Lakes	WL	black crappie, bluegill, common carp, gizzard shad, golden shiner, largemouth bass, northern	April – Dec.	26.2	29.3

			pike, pumpkinseed, sauger, smallmouth bass, spottail shiner, stonecat, striped bass, tiger muskellunge, walleye, wiper, white bass, white crappie, yellow perch	Jan. – March	13.1	24.1
Uranium	Acute = $e^{(1.1021 \cdot \ln(\text{hardness}) + 2.7088)}$ Chronic = $e^{(1.1021 \cdot \ln(\text{hardness}) + 2.2382)}$					
Zinc	Acute = $0.978 \cdot e^{(0.9094 \cdot \ln(\text{hardness}) + 0.9095)}$ Chronic = $0.986 \cdot e^{(0.9094 \cdot \ln(\text{hardness}) + 0.6235)}$ Where hardness is less than 102 mg/L CaCO ³ and mottled sculpin are expected to be present: Chronic (sculpin) = $e^{(2.140 \cdot \ln(\text{hardness}) - 5.084)}$					

TABLE VALUE STANDARDS - FOOTNOTES

- (1) Metals are stated as dissolved unless otherwise specified. Nitrogen and phosphorus standards are based upon the concentration of total nitrogen and total phosphorus.
- (2) Hardness values to be used in equations are in mg/L as calcium carbonate and shall be no greater than 400 mg/L, except for aluminum for which hardness shall be no greater than 220 mg/L. The hardness values used in calculating the appropriate metal standard should be based on the lower 95 per cent confidence limit of the mean hardness value at the periodic low flow criteria as determined from a regression analysis of site-specific data. Where insufficient site-specific data exists to define the mean hardness value at the periodic low flow criteria, representative regional data shall be used to perform the regression analysis. Where a regression analysis is not appropriate, a site-specific method should be used. In calculating a hardness value, regression analyses should not be extrapolated past the point that data exist.
- (3) Both acute and chronic numbers adopted as stream standards are levels not to be exceeded more than once every three years on the average.
- (4) For acute conditions the default assumption is that salmonids could be present in cold water segments and should be protected, and that salmonids do not need to be protected in warm water segments. For chronic conditions, the default assumptions are that early life stages could be present all year in cold water segments and should be protected. In warm water segments the default assumption is that early life stages are present and should be protected only from April 1 through August 31. These assumptions can be modified by the commission on a site-specific basis where appropriate evidence is submitted. The "T" in the chronic equations stands for temperature.
- (5) The acute(warm) cadmium equation applies to segments classified as Aquatic Life Warm Class 1 or 2. The acute(cold) cadmium equation applies to segments classified as Aquatic Life Cold Class 1 or 2.
- (6) For lakes and reservoirs, the chlorophyll a, total nitrogen, and total phosphorus standards for Aquatic Life and Recreation apply only to lakes and reservoirs greater than 25 acres in surface area. The chlorophyll a standard for Direct Use Water Supply (DUWS) applies to lakes and reservoirs of any size.
- (76) Unless the stable forms of chromium in a waterbody have been characterized and shown not to be predominantly chromium VI, data reported as the measurement of all valence states of chromium combined should be treated as chromium VI. In addition, in no case can the sum of the concentrations of chromium III and chromium VI or data reported as

the measurement of all valence states of chromium combined exceed the water supply standards of 50 µg/L chromium in those waters classified for domestic water use.

- (87) Selenium is a bioaccumulative metal and subject to a range of toxicity values depending upon numerous site-specific variables.

(4) Discharger-specific Variances

- (a) Animas and Florida River Segment 13c (COSJAF13c):

Discharger-specific Variance, Durango West Metro Dist. #2 (COG589115), Adopted 8/11/2014.

Ammonia (acute/chronic): AEL=25 mg/L (starting 1/1/2017);
Ammonia (acute/chronic): AEL=15 mg/L (starting 1/1/2019).
Expiration Date: 12/31/2024.

- (b) La Plata Segment 7a (COSJLP07a):

Discharger-specific Variance, Vista Verde Village, LLC (CO0037702), Adopted 12/14/2020.

Ammonia (acute/chronic): AEL=14 mg/L (5/1-10/31);
Ammonia (acute/chronic): AEL=24 mg/L (11/1-4/30).
Expiration date: 6/30/2031. Effluent concentrations shall not exceed the current condition.

- (c) La Plata Segment 10 (COSJLP10):

Discharger-specific Variance, Town of Dove Creek (COG589079), Adopted 12/14/2020.

Ammonia (acute/chronic): AEL=10 mg/L (6/1-10/31);
Ammonia (acute/chronic): AEL=20 mg/L (11/1-5/31).
Expiration date: 6/30/2025. Effluent concentrations shall not exceed the current condition.

(5) Stream Classifications and Water Quality Standards Tables

The stream classifications and water quality standards tables in Appendix 34-1 are incorporated herein by reference.

The following is information regarding duration and measured form of standards in Appendix 34-1:

- (a) *E. coli* criteria and resulting standards for individual water segments, are established as indicators of the potential presence of pathogenic organisms. Standards for *E. coli* are expressed as a two-month geometric mean. Site-specific or seasonal standards are also two-month geometric means unless otherwise specified.
- ~~(b) All phosphorus standards are based upon the concentration of total phosphorus. For total phosphorus, stream standards are expressed as an annual median and for lakes standards as a summer (July 1–September 30) average in the mixed layer. For chlorophyll a, stream standards are expressed as a maximum of attached algae and lakes standards as a summer (July 1–September 30) average in the mixed layer. For additional assessment details, see tables at Regulation 31.17(b) and (d).~~

- (~~eb~~) The pH standards of 6.5 (or 5.0) and 9.0 are an instantaneous minimum and maximum, respectively to be applied as effluent limits. In determining instream attainment of water quality standards for pH, appropriate averaging periods may be applied, provided that beneficial uses will be fully protected.
- (~~ec~~) All mercury standards apply to the total recoverable fraction of all forms, both organic and inorganic, of mercury in water.
- (~~ed~~) All ammonia, nitrate, and nitrite standards are based upon the concentration reported as nitrogen.

(6) Site-specific Standards, Assessment Locations, and Assessment Criteria

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

- (a) San Juan Segment 6b: Temperature Assessment Locations
 - Mill Creek at 119 Road: 37.245588, -107.004398
 - San Juan River below Pagosa Springs: 37.25171, -107.01037
- (b) San Juan Segment 6c: Temperature Assessment Location
 - Above Taylor Canyon: 37.172002, -107.035838
- (c) San Juan Segment 6d: Temperature Assessment Location
 - Above Rio Blanco: 37.121112, -107.044364
- (d) San Juan Segment 6e: Temperature Assessment Location
 - Above Navajo River: 37.04672, -107.1404
- (e) San Juan Segment 6f: Temperature Assessment Location
 - Above Navajo Reservoir: 37.01456, -107.30516
- (f) San Juan Segment 11c: Temperature Assessment Location
 - McCabe Creek at 400 Road: 37.265722, -107.013905
- (g) Piedra Segment 4a: Temperature Assessment Locations
 - Piedra River at Highway 160: 37.224016, -107.342255
 - Devil Creek at Highway 160: 37.211038, -107.297370
- (h) Piedra Segment 4b: Temperature Assessment Location
 - Piedra River at SUIT boundary: 37.141004, -107.355045
- (i) Piedra Segment 4c: Temperature Assessment Location
 - Piedra River below Stollsteimer Creek: 37.112804, -107.38508

(j) Site-specific Standards for Animas River Segments 3a, 4a, and 9:

Segment 3a (COSJAF03a):

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
Acute Standards												
Zn	720	780	1060	1200	760	410	280	340	380	440	510	590
Chronic Standards												
Mn	TVS	TVS	2571	2179	TVS	TVS	TVS	TVS	TVS	TVS	TVS	TVS
Zn	720	780	1060	1200	760	410	280	340	380	440	510	590

Segment 4a (COSJAF04a):

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

Segment 9 (COSJAF09):

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

34.7 – 34.14 RESERVED

34.56 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; NOVEMBER 14, 2022 RULEMAKING; FINAL ACTION _____; EFFECTIVE DATE APRIL 30, 2023

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

BASIS AND PURPOSE

A. Revision of Total Nitrogen and Total Phosphorus Table Value Standards for Lakes and Reservoirs at 31.17

In March 2012, the commission adopted interim numerical nutrient table value standards for chlorophyll *a* to protect the Aquatic Life, Recreation, and Direct Use Water Supply (DUWS) uses and table value standards for total nitrogen and total phosphorus to protect the Aquatic Life and Recreation uses (31.50) in lakes, reservoirs, rivers, and streams. In its July 2016 action letter for the March 2012 rulemaking hearing, EPA recommended revisiting the classification analysis for lakes and reservoirs to account for the variability between lakes (e.g., Cold and Warm lakes), evaluating confounding factors in the stressor-response relationship between nutrients and chlorophyll *a*, and evaluating whether the standards are protective of lakes with a high chlorophyll *a* yield per unit of nutrient.

In this hearing, the commission adopted revised total nitrogen and total phosphorus standards for lakes and reservoirs to address EPA's 2016 recommendations and ensure protective standards are adopted on lakes and reservoirs with Aquatic Life, Recreation, and/or DUWS uses (31.17 Table V). The numeric nutrient standards for total nitrogen and total phosphorus represent growing season (July through September) average concentrations with an allowable exceedance frequency is once in five years, and apply to lakes greater than 25 acres in size and with a residence time of at least 14 days. The commission adopted these standards into Regulation No. 31 and the basin regulations (Regulation Nos. 32-38) in this rulemaking; additional details about the revised total nitrogen and total phosphorus standards for lakes and reservoirs are included in 31.60.

B. Implementation of Nutrients Table Value Standards

The commission revised 34.5(5) to reflect the current status of the phased implementation framework for nutrients standards and remove information regarding implementation that concludes December 31, 2022. These revisions included removing language regarding phased implementation of chlorophyll *a* standards for lakes, reservoirs, rivers, and streams, as these standards now apply to all waterbodies with Aquatic Life, Recreation, and/or DUWS uses in Colorado. The information regarding the specific circumstances where nitrogen and phosphorus standards will apply before December 31, 2027 was clarified and includes additional references to 31.17. Also, to be consistent with past practice and the commission's intent in 31.55, the word "headwaters" was replaced with "waterbodies upstream of certain domestic and non-domestic wastewater treatment facilities". Finally, references to new Tables V (nutrients standards for lakes and reservoirs) and VI (nutrients standards for rivers and streams) in 31.17 were also added.

The commission revised the Table Value Standards table in 34.6(3) to include chlorophyll *a*, total nitrogen, and total phosphorus. Instead of replicating the numerical values for these table value standards, the table references 31.17, as 31.17 contains the numeric standards (in Tables V and VI), implementation information, and additional details regarding the phased implementation framework. As part of this change, the commission revised Footnote 1 to specify that the nitrogen and phosphorus standards are based upon the total concentration; this information was previously contained in 34.6(5)(b), which was deleted. Additionally, the commission adopted a new Footnote 6 that clarifies that, with the exception of the chlorophyll *a* standard to protect the DUWS sub-classification, the chlorophyll *a*, total nitrogen, and total phosphorus standards apply only to lakes and reservoirs larger than 25 acres surface area. The chlorophyll *a* standard to protect DUWS lakes and reservoirs applies to lakes and reservoirs of

all sizes. This information was previously included in the segment tables in Appendix 34-1, but was moved to Footnote 6 for clarity.

1. Nitrogen and Phosphorus Standards for Lakes, Reservoirs, Rivers, and Streams

a. Lakes and Reservoirs

Adoption of total phosphorus standards was previously limited to specific segments or portions of segments, as outlined in 31.50(VI)(A) (i.e., waterbodies above certain discharge facilities and site-specific situations where numeric standards were needed to protect uses). Prior to this rulemaking hearing, total nitrogen standards had not been adopted on any waterbodies. However, consistent with the phased implementation strategy developed in 2012 (31.50(VI)(A)) and 2017 (31.55), the commission expanded the adoption of the total phosphorus standards to also include all lake and reservoirs with the DUWS sub-classification and waterbodies with a public swim beach (defined as waterbodies with a natural swimming area per C.R.S § 25-5-801, including having a fee-based cordoned off swim area). The commission also adopted total nitrogen standards on the same set of waterbodies (i.e., waterbodies above certain discharge facilities, site-specific situations where numeric standards were needed to protect uses, DUWS, and swim beaches). Consistent with 31.17, the total phosphorus and total nitrogen standards apply only to lakes and reservoirs greater than 25 acres.

The commission previously adopted the DUWS sub-classification and notation in the Appendix 34-1 tables on several waterbodies in previous rulemaking hearings, but public swim beaches were identified in the current rulemaking. However, it was only necessary to specify the presence of a public swim beach in limited cases, because most public swim beaches in Colorado are also either classified as DUWS or located above certain discharge facilities; waterbodies falling into either of those categories are also assigned total nitrogen and total phosphorus standards. Therefore, the “Public Swim Beach” notation only needed to be applied to waterbodies where the total nitrogen and total phosphorus standards were only being applied due to the presence of a swim beach. In Regulation No. 34, all public swim beaches are also classified as DUWS or located above certain discharge facilities, so total nitrogen and total phosphorus standards were adopted for those reasons. As a result, there was not a need to add total nitrogen and total phosphorus standards solely due to the presence of a public swim beach on any waterbodies.

b. Rivers and Streams

In rivers and streams, the commission did not adopt total phosphorus standards on any additional river or stream waterbodies or total nitrogen table value standards on any waterbodies, consistent with the phased implementation timeline outlined in 31.17 and 34.5(5).

c. Formatting of Nitrogen and Phosphorus Standards in Appendix 34-1

The commission changed how previously-adopted total phosphorus table value standards were presented in the segment tables in Appendix 34-1. Specifically, the table value standards were previously shown as numeric values, which were replaced with “TVS”. Similarly, any total nitrogen or total phosphorus standards adopted in this rulemaking hearing were adopted into the Appendix 34-1 tables as “TVS”. This approach allows the regulation to point directly to 31.17, which has a complete record of information regarding these table value standards.

2. Chlorophyll a Standards for Lakes, Reservoirs, Rivers, and Streams

The commission made no changes to the chlorophyll a standards to protect Aquatic Life, Recreation, and/or DUWS uses in lakes, reservoirs, rivers, or streams. In addition, the commission made no changes to existing site-specific chlorophyll a standards.

Adoption of chlorophyll a standards was previously limited to specific segments or portions of segments, as outlined in 31.50(VI)(A) (i.e., waterbodies above certain discharge facilities and site-specific situations where numeric standards were needed to protect uses). However, consistent with the phased implementation strategy developed in 2012 (31.50(VI)(A)) and 2017 (31.55), the commission expanded the adoption of chlorophyll a standards to all segments with Aquatic Life, Recreation, and/or DUWS uses.

Specifically, in this rulemaking hearing, the commission adopted the chlorophyll a table value standard of 8 µg/L for all cold water lakes or reservoirs (larger than 25 acres) with Aquatic Life or Recreation E, U, or P uses; 20 µg/L for all warm water lakes or reservoirs (larger than 25 acres) with Aquatic Life or Recreation E, U, or P uses; and 150 mg/m² for all cold or warm water streams with a Recreation E, U, or P use. In the segment tables in Appendix 34-1, these table value standards were adopted as “TVS” and any previously-adopted table value standards shown as numeric values were changed to “TVS”. This approach allows the regulation to point directly to 31.17, which has a complete record of information regarding these table value standards.

In addition, the commission adopted the table value standard of 5 µg/L for all lakes or reservoirs (of any size) with DUWS; in Appendix 34-1, these table value standards are shown as “DUWS”. The phased implementation of the chlorophyll a standards adoption is now complete.

C. Clarifications and Corrections

The following edits were made to the regulation and Appendix 34-1 to improve clarity and correct errors:

- The Direct Use Water Supply (DUWS) references in segments in Appendix 34-1 were revised to improve clarity and consistency.
- Where the chlorophyll a and phosphorus standards adopted in previous rulemaking hearings were not consistent with the use(s), the commission made the following corrections:

La Plata River: 3a (COSJLP03a), 3b (COSJLP03b), and 3e (COSJLP03b); chlorophyll a; delete because the chlorophyll a standard of 150 mg/m² does not apply to river and stream segments with a Recreation N use

- In Appendix 34-1, on La Plata River Segment 4b (COSJLP04b), the Direct Use Water Supply (DUWS) note specifying that “DUWS applies to Jackson Gulch Reservoir only” was deleted. Mancos Reservoir (Jackson Gulch Reservoir) is the only waterbody included in this segment, so it is not necessary to specify which waterbody is DUWS.

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

5 CCR 1002-34

**REGULATION NO. 34
CLASSIFICATIONS AND NUMERIC STANDARDS
FOR
SAN JUAN RIVER AND DOLORES RIVER BASINS**

**APPENDIX 34-1
Stream Classifications and Water Quality Standards Tables**

Effective ~~09/30/2022~~04/30/2023

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 #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Juan River Basin

1a. Mainstem of the Navajo River including all wetlands and tributaries from the boundary of the South San Juan Wilderness Area to below the confluence with Sheep Creek. Mainstem of the Little Navajo River, including all wetlands and tributaries, from the boundary of the South San Juan Wilderness Area to the San Juan-Chama Diversion.							
COSJSJ01A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
Water Supply		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m²)	---	150TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
					Iron	---	WS
					Iron(T)	---	1000
					Lead	TVS	TVS
					Lead(T)	50	---
					Manganese	TVS	TVS/WS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

1b. Mainstem of the Navajo River, including all wetlands and tributaries from below the confluence with Sheep Creek to the Colorado/New Mexico border, except for specific listings in Segment 3.							
COSJSJ01B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
Water Supply		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m²)	---	150TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
					Iron	---	WS
					Iron(T)	---	1000
					Lead	TVS	TVS
					Lead(T)	50	---
					Manganese	TVS	TVS/WS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Juan River Basin

2. Mainstem of the Navajo River from the Colorado/New Mexico border to the confluence with the San Juan River.						
COSJSJ02	Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture		DM	MWAT	acute	chronic
Reviewable	Aq Life Warm 1		WS-II	WS-II	Arsenic	340
	Recreation E		acute	chronic	Arsenic(T)	0.02
Qualifiers:	Water Supply		D.O. (mg/L)	6.0	Cadmium	TVS
			D.O. (spawning)	7.0	Cadmium(T)	5.0
Other:			pH	6.5 - 9.0	Chromium III	TVS
			chlorophyll a (mg/m ²)	150TVS	Chromium III(T)	50
Temporary Modification(s):			E. Coli (per 100 mL)	126	Chromium VI	TVS
					Copper	TVS
Arsenic(chronic) = hybrid			Inorganic (mg/L)		Iron	WS
			acute	chronic	Iron(T)	1000
Expiration Date of 12/31/2024			Ammonia	TVS	Lead	TVS
			Boron	0.75	Lead(T)	50
*Southern Ute Indian Reservation			Chloride	250	Manganese	TVS/WS
			Chlorine	0.019	Mercury(T)	0.01
*Uranium(acute) = See 34.5(3) for details.			Cyanide	0.005	Molybdenum(T)	150
			Nitrate	10	Nickel	TVS
*Uranium(chronic) = See 34.5(3) for details.			Nitrite	0.05	Nickel(T)	100
			Phosphorus	0.47TVS	Selenium	TVS
			Sulfate	WS	Silver	TVS
			Sulfide	0.002	Uranium	varies*
					Zinc	TVS

3. Mainstem of the Little Navajo River from the San Juan-Chama diversion to the confluence with the Navajo River; all tributaries to the Navajo River and the Little Navajo River, including all wetlands, from the San Juan-Chama diversions to the confluence with the San Juan River.						
COSJSJ03	Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture		DM	MWAT	acute	chronic
Reviewable	Aq Life Warm 2		WS-II	WS-II	Arsenic	340
	Recreation N	11/1 - 4/30	acute	chronic	Arsenic(T)	100
Qualifiers:	Recreation P	5/1 - 10/31	D.O. (mg/L)	5.0	Beryllium(T)	100
			pH	6.5 - 9.0	Cadmium	TVS
Other:			chlorophyll a (mg/m ²)	150TVS	Chromium III	TVS
			E. Coli (per 100 mL)	205	Chromium III(T)	100
*Uranium(acute) = See 34.5(3) for details.			E. Coli (per 100 mL)	630	Chromium VI	TVS
					Copper	TVS
*Uranium(chronic) = See 34.5(3) for details.			Inorganic (mg/L)		Iron(T)	1000
			acute	chronic	Lead	TVS
			Ammonia	TVS	Manganese	TVS
			Boron	0.75	Mercury(T)	0.01
			Chloride	---	Molybdenum(T)	150
			Chlorine	0.019	Nickel	TVS
			Cyanide	0.005	Selenium	TVS
			Nitrate	100	Silver	TVS
			Nitrite	---	Uranium	varies*
			Phosphorus	0.47TVS	Zinc	TVS
			Sulfate	---		
			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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Juan River Basin

4. All tributaries to the San Juan River, Rio Blanco, and Navajo River including all wetlands which are within the Weminuche Wilderness area and South San Juan Wilderness Area. Mainstem of Fall Creek, including tributaries and wetlands, from its source to the irrigation diversion just upstream from the confluence with Wolf Creek. Mainstem of Wolf Creek, including tributaries and wetlands, from the boundary of the Weminuche Wilderness area to the confluence with Fall Creek. Mainstem of Quartz Creek, including tributaries and wetlands, from the boundary of the South San Juan Wilderness area to the boundary of the San Juan National Forest.

COSJSJ04	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute		chronic	
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute		chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
*Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
				acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	

5. The East and West Forks of the San Juan River, including all tributaries and wetlands, from the boundary of the Weminuche Wilderness Area (West Fork) and the source (East Fork) to the confluence of the mainstem of the San Juan River, except for the listings in Segment 4. All tributaries and wetlands to the San Juan River from a point below the confluence with the West Fork to a point below the confluence with Fourmile Creek.

COSJSJ05	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 *TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 34.5(5).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 34.5(5).</div> <div>*Uranium(acute) = See 34.5(3) for details.</div> <div>*Uranium(chronic) = See 34.5(3) for details.</div>		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 *TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Juan River Basin

6a. Mainstem of the San Juan River from a point immediately below the confluence with the West Fork to Highway 160 in Pagosa Springs.							
COSJSJ06A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150*TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 34.5(5). *Phosphorus(chronic) = applies only above the facilities listed at 34.5(5). *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS(sc)

6b. Mainstem of the San Juan River from Highway 160 in Pagosa Springs to the Southern Ute Indian Reservation Northern boundary. Mainstem of Mill Creek, including wetlands, from the source to the confluence with the San Juan River.								
COSJSJ06B	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	11/1 - 3/31	CS-II	CS-II	Arsenic	340	---
	Recreation E	Temperature °C	4/1 - 10/31	varies*	varies* C	Arsenic(T)	---	0.02
	Water Supply				Cadmium	TVS	TVS	
Qualifiers:		acute		chronic	Cadmium(T)	5.0	---	
*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 34.5(5). *Phosphorus(chronic) = applies only above the facilities listed at 34.5(5). *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details. *Temperature(4/1 - 10/31) = San Juan River MWAT=21.4 and DM=26.2 Mill Creek MWAT=21.1 and DM=27.8 See Section 34.6(6) for assessment locations.		D.O. (mg/L)	---	6.0	Chromium III	---	TVS	
		D.O. (spawning)	---	7.0	Chromium III(T)	50	---	
		pH	6.5 - 9.0	---	Chromium VI	TVS	TVS	
		chlorophyll a (mg/m²)	---	150*TVS	Copper	TVS	TVS	
		E. Coli (per 100 mL)	---	126	Iron	---	WS	
					Iron(T)	---	1000	
		Inorganic (mg/L)			Lead	TVS	TVS	
		acute		chronic	Lead(T)	50	---	
		Ammonia	TVS	TVS	Manganese	TVS	TVS/WS	
		Boron	---	0.75	Mercury(T)	---	0.01	
		Chloride	---	250	Molybdenum(T)	---	150	
		Chlorine	0.019	0.011	Nickel	TVS	TVS	
		Cyanide	0.005	---	Nickel(T)	---	100	
		Nitrate	10	---	Selenium	TVS	TVS	
Nitrite	---	0.05	Silver	TVS	TVS(tr)			
Phosphorus	---	0.14TVS*	Uranium	varies*	varies*			
Sulfate	---	WS	Zinc	TVS	TVS(sc)			
Sulfide	---	0.002						

6b. Mainstem of the San Juan River from Highway 160 in Pagosa Springs to the Southern Ute Indian Reservation Northern boundary. Mainstem of Mill Creek, including wetlands, from the source to the confluence with the San Juan River.								
COSJSJ06B	Classifications	Physical and Biological				Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	11/1 - 3/31	CS-II	CS-II	Arsenic	340	---
	Recreation E	Temperature °C	4/1 - 10/31	varies*	varies* ^C	Arsenic(T)	---	0.02
	Water Supply					Cadmium	TVS	TVS
Qualifiers:		acute		chronic		Cadmium(T)	5.0	---
Other:		D.O. (mg/L)	---	6.0		Chromium III	---	TVS
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 34.5(5).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 34.5(5).</div> <div>*Uranium(acute) = See 34.5(3) for details.</div> <div>*Uranium(chronic) = See 34.5(3) for details.</div> <div>*Temperature(4/1 - 10/31) = San Juan River MWAT=21.4 and DM=26.2 Mill Creek MWAT=21.1 and DM=27.8 See Section 34.6(6) for assessment locations.</div>		D.O. (spawning)	---	7.0		Chromium III(T)	50	---
		pH	6.5 - 9.0	---		Chromium VI	TVS	TVS
		chlorophyll a (mg/m²)	---	150*TVS		Copper	TVS	TVS
		E. Coli (per 100 mL)	---	126		Iron	---	WS
						Iron(T)	---	1000
		Inorganic (mg/L)				Lead	TVS	TVS
		acute		chronic		Lead(T)	50	---
		Ammonia	TVS	TVS		Manganese	TVS	TVS/WS
		Boron	---	0.75		Mercury(T)	---	0.01
		Chloride	---	250		Molybdenum(T)	---	150
		Chlorine	0.019	0.011		Nickel	TVS	TVS
		Cyanide	0.005	---		Nickel(T)	---	100
		Nitrate	10	---		Selenium	TVS	TVS
		Nitrite	---	0.05		Silver	TVS	TVS(tr)
		Phosphorus	---	0.14TVS*		Uranium	varies*	varies*
Sulfate	---	WS		Zinc	TVS	TVS(sc)		
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 34.6 for further details on applied standards.

San Juan River Basin

6c. Mainstem of the San Juan River from the Southern Ute Indian Reservation northern boundary to the confluence with Taylor Canyon.										
COSJSJ06C		Classifications		Physical and Biological				Metals (ug/L)		
Designation	Agriculture				DM	MWAT			acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	11/1 - 3/31	CS-II	CS-II			Arsenic	340	---
	Recreation E	Temperature °C	4/1 - 10/31	26.4*	22.1* °C			Arsenic(T)	---	0.02
	Water Supply							Cadmium	TVS	TVS
Qualifiers:									acute	chronic
Other: *Southern Ute Indian Reservation *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details. *Temperature(4/1 - 10/31) = See Section 34.6(6) for assessment locations.		D.O. (mg/L)		---	6.0			Cadmium(T)	5.0	---
		D.O. (spawning)		---	7.0			Chromium III	---	TVS
		pH		6.5 - 9.0	---			Chromium III(T)	50	---
		chlorophyll a (mg/m²)		---	TVS -			Chromium VI	TVS	TVS
		E. Coli (per 100 mL)		---	126			Copper	TVS	TVS
								Iron	---	WS
								Iron(T)	---	1000
		Inorganic (mg/L)						Lead	TVS	TVS
				acute	chronic			Lead(T)	50	---
		Ammonia		TVS	TVS			Manganese	TVS	TVS/WS
		Boron		---	0.75			Mercury(T)	---	0.01
		Chloride		---	250			Molybdenum(T)	---	150
		Chlorine		0.019	0.011			Nickel	TVS	TVS
		Cyanide		0.005	---			Nickel(T)	---	100
		Nitrate		10	---			Selenium	TVS	TVS
		Nitrite		---	0.05			Silver	TVS	TVS(tr)
		Phosphorus		---	---			Uranium	varies*	varies*
Sulfate		---	WS			Zinc	TVS	TVS		
Sulfide		---	0.002							

6d. Mainstem of the San Juan River from the confluence with Taylor Canyon to the confluence with the Rio Blanco.										
COSJSJ06D		Classifications		Physical and Biological				Metals (ug/L)		
Designation	Agriculture				DM	MWAT			acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	11/1 - 3/31	CS-II	CS-II			Arsenic	340	---
	Recreation E	Temperature °C	4/1 - 10/31	27.1*	22.5* °C			Arsenic(T)	---	0.02
	Water Supply							Cadmium	TVS	TVS
Qualifiers:									acute	chronic
Other: *Southern Ute Indian Reservation *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details. *Temperature(4/1 - 10/31) = See Section 34.6(6) for assessment locations.		D.O. (mg/L)		---	6.0			Cadmium(T)	5.0	---
		D.O. (spawning)		---	7.0			Chromium III	---	TVS
		pH		6.5 - 9.0	---			Chromium III(T)	50	---
		chlorophyll a (mg/m²)		---	TVS -			Chromium VI	TVS	TVS
		E. Coli (per 100 mL)		---	126			Copper	TVS	TVS
								Iron	---	WS
								Iron(T)	---	1000
		Inorganic (mg/L)						Lead	TVS	TVS
				acute	chronic			Lead(T)	50	---
		Ammonia		TVS	TVS			Manganese	TVS	TVS/WS
		Boron		---	0.75			Mercury(T)	---	0.01
		Chloride		---	250			Molybdenum(T)	---	150
		Chlorine		0.019	0.011			Nickel	TVS	TVS
		Cyanide		0.005	---			Nickel(T)	---	100
		Nitrate		10	---			Selenium	TVS	TVS
		Nitrite		---	0.05			Silver	TVS	TVS(tr)
		Phosphorus		---	---			Uranium	varies*	varies*
Sulfate		---	WS			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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Juan River Basin

6e. Mainstem of the San Juan River from the confluence with the Rio Blanco to the confluence with the Navajo River.						
COSJSJ06E	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture			DM	MWAT	
Reviewable	Aq Life Cold 1	Temperature °C	11/1 - 3/31	CS-II	CS-II	Arsenic
	Recreation E	Temperature °C	4/1 - 10/31	28.7*	23.5* C	Arsenic(T)
	Water Supply					Cadmium
Qualifiers:				acute	chronic	
Other:		D.O. (mg/L)		---	6.0	Cadmium(T)
		D.O. (spawning)		---	7.0	Chromium III
		pH	6.5 - 9.0	---		Chromium III(T)
		chlorophyll a (mg/m ²)		---	--TVS -	Chromium VI
		E. Coli (per 100 mL)		---	126	Copper
						Iron
						Iron(T)
		Inorganic (mg/L)				Lead
				acute	chronic	Lead(T)
		Ammonia		TVS	TVS	Manganese
		Boron		---	0.75	Mercury(T)
		Chloride		---	250	Molybdenum(T)
		Chlorine	0.019	0.011		Nickel
		Cyanide	0.005	---		Nickel(T)
		Nitrate	10	---		Selenium
		Nitrite	---	0.05		Silver
		Phosphorus	---	---		Uranium
		Sulfate	---	WS		Zinc
		Sulfide	---	0.002		

6f. Mainstem of the San Juan River from the confluence with the Navajo River to Navajo Reservoir.						
COSJSJ06F	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture			DM	MWAT	
Reviewable	Aq Life Cold 1	Temperature °C	11/1 - 3/31	CS-II	CS-II	Arsenic
	Recreation E	Temperature °C	4/1 - 10/31	28.8*	24.2* C	Arsenic(T)
	Water Supply					Cadmium
Qualifiers:				acute	chronic	
Other:		D.O. (mg/L)		---	6.0	Cadmium(T)
		D.O. (spawning)		---	7.0	Chromium III
		pH	6.5 - 9.0	---		Chromium III(T)
		chlorophyll a (mg/m ²)		---	--TVS -	Chromium VI
		E. Coli (per 100 mL)		---	126	Copper
						Iron
						Iron(T)
		Inorganic (mg/L)				Lead
				acute	chronic	Lead(T)
		Ammonia		TVS	TVS	Manganese
		Boron		---	0.75	Mercury(T)
		Chloride		---	250	Molybdenum(T)
		Chlorine	0.019	0.011		Nickel
		Cyanide	0.005	---		Nickel(T)
		Nitrate	10	---		Selenium
		Nitrite	---	0.05		Silver
		Phosphorus	---	---		Uranium
		Sulfate	---	WS		Zinc
		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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

7. Mainstem of the Rio Blanco, including all tributaries and wetlands, from the boundary of the South San Juan Wilderness Area to below the confluence with Leche Creek.

COSJSJ07	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
			D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other: *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		chlorophyll a (mg/m²)	---	150TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS(sc)

8. Navajo Reservoir, Echo Canyon Reservoir.

COSJSJ08	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Warm 1	Temperature °C	WL WL	Arsenic	340 ---
	Recreation E		acute chronic	Arsenic(T)	--- 0.02
	Water Supply	D.O. (mg/L)	--- 5.0	Cadmium	TVS TVS
Qualifiers:		pH	6.5 - 9.0 ---	Cadmium(T)	5.0 ---
Other:		chlorophyll a (ug/L)	--- 20*TVS	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	--- 0.5	Molybdenum(T)	--- 150
		Nitrogen	--- - TVS*	Nickel	TVS TVS
		Phosphorus	--- 0.083TVS*	Nickel(T)	--- 100
		Sulfate	--- WS	Selenium	TVS TVS
		Sulfide	--- 0.002	Silver	TVS TVS
				Uranium	varies* varies*
				Zinc	TVS TVS

*chlorophyll a (ug/L)(Nitrogen(chronic) = applies only above the facilities listed at 34.5(5); applies only to lakes and reservoirs larger than 25 acres surface area.)

*Phosphorus(chronic) = applies only above the facilities listed at 34.5(5); applies only to lakes and reservoirs larger than 25 acres surface area.)

*Uranium(acute) = See 34.5(3) for details.

*Uranium(chronic) = See 34.5(3) for details.

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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Juan River Basin

9a. Mainstem of the Rio Blanco, including all tributaries and wetlands, from a point immediately below the confluence with Leche Creek to the Southern Ute Indian Reservation boundary, except for specific listings in Segment 10.							
COSJSJ09A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 34.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 34.5(3) for details.		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS(sc)

9b. Mainstem of the Rio Blanco, including all tributaries and wetlands, from the boundary of the Southern Ute Indian Reservation to the confluence with the San Juan River.							
COSJSJ09B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Southern Ute Indian Reservation		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
*Uranium(acute) = See 34.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(chronic) = See 34.5(3) for details.					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Juan River Basin

10. Mainstem of the Rito Blanco River, including wetlands, from Echo Ditch to the confluence with the Rio Blanco River.										
COSJSJ10	Classifications			Physical and Biological			Metals (ug/L)			
Designation	Agriculture			DM	MWAT	acute		chronic		
Reviewable	Aq Life Cold 2			Temperature °C	CS-II	CS-II	Arsenic	340	---	
	Recreation E			acute	chronic	Arsenic(T)	---	0.02-10 ^A		
	Water Supply			D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:				D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.				pH	6.5 - 9.0	---	Chromium III	---	TVS	
				chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---	
				E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
							Copper	TVS	TVS	
				Inorganic (mg/L)			Iron	---	WS	
							Iron(T)	---	1000	
				Ammonia	TVS	TVS	Lead	TVS	TVS	
				Boron	---	0.75	Lead(T)	50	---	
				Chloride	---	250	Manganese	TVS	TVS/WS	
				Chlorine	0.019	0.011	Mercury(T)	---	0.01	
				Cyanide	0.005	---	Molybdenum(T)	---	150	
				Nitrate	10	---	Nickel	TVS	TVS	
				Nitrite	---	0.05	Nickel(T)	---	100	
				Phosphorus	---	0.14 TVS	Selenium	TVS	TVS	
				Sulfate	---	WS	Silver	TVS	TVS(tr)	
				Sulfide	---	0.002	Uranium	varies*	varies*	
								Zinc	TVS	TVS
11a. All tributaries to the San Juan River, including wetlands, from a point immediately below the confluence with Fourmile Creek to the Southern Ute Indian Reservation boundary except for the specific listings in Segments 6a, 6b, 9a, 9b and 11c.										
COSJSJ11A	Classifications			Physical and Biological			Metals (ug/L)			
Designation	Agriculture			DM	MWAT	acute		chronic		
Reviewable	Aq Life Warm 1			Temperature °C	WS-II	WS-II	Arsenic	340	---	
	Recreation E	5/1 - 10/31		acute	chronic	Arsenic(T)	---	0.02		
	Recreation N	11/1 - 4/30		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
	Water Supply			pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
Qualifiers:				chlorophyll a (mg/m²)	---	150 TVS	Chromium III	---	TVS	
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.				E. Coli (per 100 mL)	5/1 - 10/31	---	126	Chromium III(T)	50	---
				E. Coli (per 100 mL)	11/1 - 4/30	---	630	Chromium VI	TVS	TVS
							Copper	TVS	TVS	
				Inorganic (mg/L)			Iron	---	WS	
							Iron(T)	---	1000	
				Ammonia	TVS	TVS	Lead	TVS	TVS	
				Boron	---	0.75	Lead(T)	50	---	
				Chloride	---	250	Manganese	TVS	TVS/WS	
				Chlorine	0.019	0.011	Mercury(T)	---	0.01	
				Cyanide	0.005	---	Molybdenum(T)	---	150	
				Nitrate	10	---	Nickel	TVS	TVS	
				Nitrite	---	0.05	Nickel(T)	---	100	
				Phosphorus	---	0.14 TVS	Selenium	TVS	TVS	
				Sulfate	---	WS	Silver	TVS	TVS(tr)	
				Sulfide	---	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Juan River Basin

11b. All tributaries to the San Juan River, including wetlands, from the Southern Ute Indian Reservation boundary to the Colorado/New Mexico border except for the specific listings in Segments 6a, 6b, 9a and 9b. Sambrito Creek, Scaggs Canyon, Sandoval Canyon and other unnamed tributaries and wetlands that flow directly into Navajo Reservoir.

COSJSJ11B	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute		chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---	
	Recreation E 5/1 - 10/31	acute		chronic	Arsenic(T)	---	0.02	
	Recreation N 11/1 - 4/30	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
	Water Supply	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
Qualifiers:		chlorophyll a (mg/m²)	---	450 TVS	Chromium III	TVS	TVS	
Other: *Southern Ute Indian Reservation *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		E. Coli (per 100 mL) 5/1 - 10/31	---	126	Chromium III(T)	---	100	
		E. Coli (per 100 mL) 11/1 - 4/30	---	630	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
				acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.47 TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	

11c. McCabe Creek, including wetlands, from the source to the confluence with the San Juan River.

COSJSJ11C	Classifications	Physical and Biological				Metals (ug/L)					
Designation	Agriculture			DM	MWAT	acute		chronic			
Reviewable	Aq Life Cold 1	Temperature °C	11/1 - 3/31	CS-II	CS-II	Arsenic	340	---			
	Recreation E	Temperature °C	4/1 - 10/31	25.1*	21.6* °C	Arsenic(T)	---	0.02			
	Water Supply					Cadmium	TVS	TVS			
Qualifiers:						Cadmium(T)	5.0	---			
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details. *Temperature(4/1 - 10/31) = See Section 34.6(6) for assessment locations.		D.O. (mg/L)		---	5.0	Chromium III	---	TVS			
		pH		6.5 - 9.0		---	Chromium III(T)	50	---		
		chlorophyll a (mg/m²)		---		450 TVS	Chromium VI	TVS	TVS		
		E. Coli (per 100 mL)		---		126	Copper	TVS	TVS		
		Inorganic (mg/L)				Iron				---	WS
						acute	chronic	Iron(T)		---	1000
		Ammonia		TVS		TVS	Lead	TVS	TVS		
		Boron		---		0.75	Lead(T)	50	---		
		Chloride		---		250	Manganese	TVS	TVS/WS		
		Chlorine		0.019		0.011	Mercury(T)	---	0.01		
		Cyanide		0.005		---	Molybdenum(T)	---	150		
		Nitrate		10		---	Nickel	TVS	TVS		
		Nitrite		---		0.05	Nickel(T)	---	100		
		Phosphorus		---		0.44 TVS	Selenium	TVS	TVS		
		Sulfate		---		WS	Silver	TVS	TVS		
		Sulfide		---		0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Juan River Basin

12. All tributaries to the San Juan River in Archuleta County, including all wetlands, except for specific listings in Segments 1a, 1b, 2, 3, 4, 5, 6a, 6b, 7, 9a, 9b, 10, 11a, 11b and 12b. This segment includes Coyote Creek from its source to the Colorado/New Mexico border.

COSJSJ12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 2	WS-III		WS-III	340		---
	Recreation N 11/1 - 4/30	acute		chronic	Arsenic(T)		---
	Recreation P 5/1 - 10/31	---		5.0	Beryllium(T)		100
Qualifiers:		pH 6.5 - 9.0		---	Cadmium		TVS
Other:		chlorophyll a (mg/m ²)		---	Chromium III		TVS
		E. Coli (per 100 mL) 5/1 - 10/31		205	Chromium III(T)		100
		E. Coli (per 100 mL) 11/1 - 4/30		630	Chromium VI		TVS
					Copper		TVS
		Inorganic (mg/L)			Iron(T)		1000
		acute		chronic	Lead		TVS
		Ammonia		TVS	Manganese		TVS
		Boron		0.75	Mercury(T)		0.01
		Chloride		---	Molybdenum(T)		150
		Chlorine		0.019	Nickel		TVS
		Cyanide		0.005	Selenium		TVS
		Nitrate		100	Silver		TVS
		Nitrite		---	Uranium		varies*
		Phosphorus		---	Zinc		TVS
		Sulfate		---			
		Sulfide		0.002			

13. All lakes and reservoirs that are tributary to the mainstem of the Navajo River and the Little Navajo River, from the boundary of the South San Juan Wilderness Area to the Colorado/New Mexico border, except for specific listings in Segment 14. This segment includes Gardner Lake, Fall View Lake, Hidden Lake, Dolomite Lake, Bull Elk Pond, Price Lakes, and Spence Reservoir.

COSJSJ13	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	CL		CL	340		---
	Recreation E	acute		chronic	Arsenic(T)		0.02
	Water Supply	---		6.0	Cadmium		TVS
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)		---
Other:		pH 6.5 - 9.0		---	Chromium III		TVS
		chlorophyll a (ug/L)		---	Chromium III(T)		50
		E. Coli (per 100 mL)		126	Chromium VI		TVS
					Copper		TVS
		Inorganic (mg/L)			Iron		WS
		acute		chronic	Iron(T)		1000
		Ammonia		TVS	Lead		TVS
		Boron		0.75	Lead(T)		50
		Chloride		250	Manganese		TVS
		Chlorine		0.019	Mercury(T)		0.01
		Cyanide		0.005	Molybdenum(T)		150
		Nitrate		10	Nickel		TVS
		Nitrite		0.05	Nickel(T)		100
		Nitrogen		---	Selenium		TVS
		Phosphorus		---	Silver		TVS
		Sulfate		WS	Uranium		varies*
		Sulfide		0.002	Zinc		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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Juan River Basin

14. All lakes and reservoirs that are tributary to the Navajo River and the Little Navajo River, from the San Juan-Chama diversions to the confluence with the San Juan River.											
COSJSJ14		Classifications		Physical and Biological			Metals (ug/L)				
Designation	Agriculture				DM	MWAT		acute	chronic		
	Reviewable	Aq Life Warm 2		Temperature °C	WL	WL	Arsenic	340	---		
		Recreation N	11/1 - 4/30		acute	chronic	Arsenic(T)	---	100		
		Recreation P	5/1 - 10/31	D.O. (mg/L)	---	5.0	Beryllium(T)	---	100		
Qualifiers:			pH	6.5 - 9.0	---	Cadmium	TVS	TVS			
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.			chlorophyll a (ug/L)	---	20*TVS	Chromium III	TVS	TVS			
			E. Coli (per 100 mL)	5/1 - 10/31	---	205	Chromium III(T)	---	100		
			E. Coli (per 100 mL)	11/1 - 4/30	---	630	Chromium VI	TVS	TVS		
						Inorganic (mg/L)			Copper	TVS	TVS
									Lead	TVS	TVS
									Manganese	TVS	TVS
									Mercury(T)	---	0.01
									Molybdenum(T)	---	150
									Nickel	TVS	TVS
									Selenium	TVS	TVS
									Silver	TVS	TVS
									Uranium	varies*	varies*
									Zinc	TVS	TVS
			15a. All lakes and reservoirs which are tributary to the Rio Blanco, from the boundary of South San Juan Wilderness Area to the Southern Ute Indian Reservation boundary. This segment includes Harris Lake, Buckles Lake, and Crested Lake.								
COSJSJ15A		Classifications		Physical and Biological			Metals (ug/L)				
Designation	Agriculture				DM	MWAT		acute	chronic		
	Reviewable	Aq Life Cold 1		Temperature °C	CL	CL	Arsenic	340	---		
		Recreation E			acute	chronic	Arsenic(T)	---	0.02		
		Water Supply		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS		
Qualifiers:			D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---			
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.			pH	6.5 - 9.0	---	Chromium III	---	TVS			
			chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---			
			E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS			
						Inorganic (mg/L)			Copper	TVS	TVS
									Iron	---	WS
									Iron(T)	---	1000
									Lead	TVS	TVS
									Lead(T)	50	---
									Manganese	TVS	TVS/WS
									Mercury(T)	---	0.01
									Molybdenum(T)	---	150
									Nickel	TVS	TVS
									Nickel(T)	---	100
									Selenium	TVS	TVS
									Silver	TVS	TVS(tr)
									Uranium	varies*	varies*
									Zinc	TVS	TVS

15a. All lakes and reservoirs which are tributary to the Rio Blanco, from the boundary of South San Juan Wilderness Area to the Southern Ute Indian Reservation boundary. This segment includes Harris Lake, Buckles Lake, and Crescent Lake.							
COSJSJ15A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
<div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 34.5(3) for details.</div> <div>*Uranium(chronic) = See 34.5(3) for details.</div>		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
					Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Juan River Basin

15b. All lakes and reservoirs which are tributary to the Rio Blanco, from the boundary of the Southern Ute Indian Reservation to the confluence with the San Juan River.							
COSJSJ15B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
<div>*Southern Ute Indian Reservation</div> <div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 34.5(3) for details.</div> <div>*Uranium(chronic) = See 34.5(3) for details.</div>		chlorophyll a (ug/L)	---	8±TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
					Iron	---	WS
					Iron(T)	---	1000
					Lead	TVS	TVS
		Ammonia	TVS	TVS	Lead(T)	50	---
		Boron	---	0.75	Manganese	TVS	TVS/WS
		Chloride	---	250	Mercury(T)	---	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	10	---	Nickel(T)	---	100
		Nitrite	---	0.05	Selenium	TVS	TVS
		Nitrogen	---	TVS	Silver	TVS	TVS(tr)
		Phosphorus	---	0.025±TVS	Uranium	varies*	varies*
		Sulfate	---	WS	Zinc	TVS	TVS
Sulfide	---	0.002					
16. All lakes and reservoirs which are tributary to the San Juan River, Rio Blanco, and Navajo River and located within the Weminuche Wilderness Area and South San Juan Wilderness Area. This segment includes Archuleta Lake, Spruce Lakes, Turkey Creek Lake, Fourmile Lake, Upper Fourmile Lake, Crater Lake, Quartz Lake, Fish Lake, and Opal Lake.							
COSJSJ16	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
OW	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
<div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 34.5(3) for details.</div> <div>*Uranium(chronic) = See 34.5(3) for details.</div>		chlorophyll a (ug/L)	---	8±TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
					Iron	---	WS
					Iron(T)	---	1000
					Lead	TVS	TVS
		Ammonia	TVS	TVS	Lead(T)	50	---
		Boron	---	0.75	Manganese	TVS	TVS/WS
		Chloride	---	250	Mercury(T)	---	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	10	---	Nickel(T)	---	100
		Nitrite	---	0.05	Selenium	TVS	TVS
		Nitrogen	---	TVS	Silver	TVS	TVS(tr)
		Phosphorus	---	0.025±TVS	Uranium	varies*	varies*
		Sulfate	---	WS	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Juan River Basin

17. All lakes and reservoirs that are tributary to the San Juan River and the East Fork and West Fork of the San Juan River, from the boundary of the Weminuche Wilderness Area (West Fork) and the source (East Fork) to the confluence with Fourmile Creek. This segment includes Born Lake, Hatcher Lakes, T Lazy T Reservoir, and Lost Lake.

COSJSJ17	Classifications	Physical and Biological		Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
<div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 34.5(3) for details.</div> <div>*Uranium(chronic) = See 34.5(3) for details.</div>		chlorophyll a (ug/L)	---	8*TVS	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
		Nitrogen	---	TVS	Nickel(T)	---	100
		Phosphorus	---	0.025*TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

18a. All lakes and reservoirs tributary to the San Juan River from a point immediately below the confluence with Fourmile Creek to the Southern Ute Indian Reservation boundary, except for the specific listings in Segment 8.

COSJSJ18A	Classifications		Physical and Biological			Metals (ug/L)				
Designation	Agriculture		DM	MWAT	acute		chronic			
Reviewable	Aq Life Warm 1		Temperature °C	WL	WL	Arsenic	340	---		
	Recreation E	5/1 - 10/31	acute	chronic	Arsenic(T)	---	7.6			
	Recreation N	11/1 - 4/30	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS		
Qualifiers:			pH	6.5 - 9.0	---	Chromium III	TVS	TVS		
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.			chlorophyll a (ug/L)	---	20*TVS	Chromium III(T)	---	100		
			E. Coli (per 100 mL)	5/1 - 10/31	---	126	Chromium VI	TVS	TVS	
			E. Coli (per 100 mL)	11/1 - 4/30	---	630	Copper	TVS	TVS	
						Iron(T)	---	1000		
			Inorganic (mg/L)			Lead	TVS	TVS		
						acute	chronic	Manganese	TVS	TVS
			Ammonia		TVS	TVS	Mercury(T)	---	0.01	
			Boron		---	0.75	Molybdenum(T)	---	150	
			Chloride		---	---	Nickel	TVS	TVS	
			Chlorine		0.019	0.011	Selenium	TVS	TVS	
			Cyanide		0.005	---	Silver	TVS	TVS(tr)	
			Nitrate		100	---	Uranium	varies*	varies*	
			Nitrite		---	0.05	Zinc	TVS	TVS	
			Nitrogen		---	TVS				
			Phosphorus		---	0.083*TVS				
Sulfate		---	---							
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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Juan River Basin

18b. All lakes and reservoirs which are tributary to the San Juan River from the Southern Ute Indian Reservation boundary to the Colorado/New Mexico border, except for the specific listing in Segment 8.

COSJSJ18B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E 5/1 - 10/31	acute	chronic		Arsenic(T)	---	7.6
	Recreation N 11/1 - 4/30	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
Other:		chlorophyll a (ug/L)	---	20 *TVS	Chromium III(T)	---	100
		E. Coli (per 100 mL)	5/1 - 10/31	---	Chromium VI	TVS	TVS
		E. Coli (per 100 mL)	11/1 - 4/30	---	Copper	TVS	TVS
		Inorganic (mg/L)			Lead	TVS	TVS
		acute	chronic		Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	TVS	TVS
		<u>Nitrogen</u>	---	TVS			
		Phosphorus	---	0.083 *TVS			
		Sulfate	---	---			
		Sulfide	---	0.002			

19. All lakes and reservoirs in Archuleta County which are tributary to the San Juan River, except for specific listings in Segment 18b. All lakes and reservoirs which are tributary to Coyote Creek from its source to the Colorado/New Mexico border.

COSJSJ19	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation N 11/1 - 4/30	acute	chronic		Arsenic(T)	---	7.6
	Recreation P 5/1 - 10/31	D.O. (mg/L)	---	5.0	Beryllium(T)	---	100
Qualifiers:		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
Fish Ingestion		chlorophyll a (ug/L)	---	20 *TVS	Chromium III	---	TVS
Other:		E. Coli (per 100 mL)	5/1 - 10/31	---	Chromium III(T)	100	---
		E. Coli (per 100 mL)	11/1 - 4/30	---	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	---	---	Silver	TVS	TVS
		<u>Nitrogen</u>	---	TVS	Uranium	varies*	varies*
		Phosphorus	---	0.083 *TVS	Zinc	TVS	TVS
		Sulfate	---	---			
		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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Piedra River Basin

1. All tributaries to the Piedra River, including all wetlands, which are within the Weminuche Wilderness Area.								
COSJPI01	Classifications		Physical and Biological			Metals (ug/L)		
Designation			DM	MWAT	acute	chronic		
OW	Agriculture							
	Aq Life Cold 1		Temperature °C	CS-I CS-I	Arsenic	340 ---		
	Recreation E		acute	chronic	Arsenic(T)	--- 0.02		
	Water Supply		D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS		
			D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---		
Qualifiers:			pH	6.5 - 9.0 ---	Chromium III	--- TVS		
Other:			chlorophyll a (mg/m²)	--- 150 TVS	Chromium III(T)	50 ---		
			E. Coli (per 100 mL)	--- 126	Chromium VI	TVS TVS		
					Copper	TVS TVS		
			Inorganic (mg/L)		Iron	--- WS		
			acute	chronic	Iron(T)	--- 1000		
			Ammonia	TVS TVS	Lead	TVS TVS		
			Boron	--- 0.75	Lead(T)	50 ---		
			Chloride	--- 250	Manganese	TVS TVS/WS		
			Chlorine	0.019 0.011	Mercury(T)	--- 0.01		
			Cyanide	0.005 ---	Molybdenum(T)	--- 150		
			Nitrate	10 ---	Nickel	TVS TVS		
			Nitrite	--- 0.05	Nickel(T)	--- 100		
			Phosphorus	--- 0.14 TVS	Selenium	TVS TVS		
			Sulfate	--- WS	Silver	TVS TVS(tr)		
			Sulfide	--- 0.002	Uranium	varies* varies*		
					Zinc	TVS TVS		
	2a. East Fork Piedra River and Middle Fork Piedra River, including all tributaries and wetlands, from the boundary of the Weminuche Wilderness Area to the confluence with the mainstem of the Piedra River, except for the specific listing in Segment 3.							
	COSJPI02A	Classifications		Physical and Biological			Metals (ug/L)	
	Designation			DM	MWAT	acute	chronic	
Reviewable	Agriculture							
	Aq Life Cold 1		Temperature °C	CS-I CS-I	Arsenic	340 ---		
	Recreation E	4/1 - 10/31	acute	chronic	Arsenic(T)	--- 0.02		
	Recreation N	11/1 - 3/31	D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS		
	Water Supply		D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---		
Qualifiers:			pH	6.5 - 9.0 ---	Chromium III	--- TVS		
Other:			chlorophyll a (mg/m²)	--- 150 TVS	Chromium III(T)	50 ---		
			E. Coli (per 100 mL) 4/1 - 10/31	--- 126	Chromium VI	TVS TVS		
			E. Coli (per 100 mL) 11/1 - 3/31	--- 630	Copper	TVS TVS		
			Inorganic (mg/L)		Iron	--- WS		
			acute	chronic	Iron(T)	--- 1000		
			Ammonia	TVS TVS	Lead	TVS TVS		
			Boron	--- 0.75	Lead(T)	50 ---		
			Chloride	--- 250	Manganese	TVS TVS/WS		
			Chlorine	0.019 0.011	Mercury(T)	--- 0.01		
			Cyanide	0.005 ---	Molybdenum(T)	--- 150		
			Nitrate	10 ---	Nickel	TVS TVS		
			Nitrite	--- 0.05	Nickel(T)	--- 100		
			Phosphorus	--- 0.14 TVS	Selenium	TVS TVS		
			Sulfate	--- WS	Silver	TVS TVS(tr)		
			Sulfide	--- 0.002	Uranium	varies* varies*		
					Zinc	TVS TVS(sc)		
	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.							

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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Piedra River Basin

2b. Mainstem of the Piedra River from the confluence with the East and Middle Forks to the confluence with Indian Creek.

COSJPI02B	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---	
	Recreation E		acute	chronic	Arsenic(T)	---	0.02	
	Recreation N	4/1 - 10/31	D.O. (mg/L)	---	6.0	Cadmium	TVS	
	Water Supply	11/1 - 3/31	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
Other: *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	4/1 - 10/31	---	126	Chromium VI	TVS	TVS
		E. Coli (per 100 mL)	11/1 - 3/31	---	630	Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS	
		acute		chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS(sc)	

3. Mainstem of the East Fork of the Piedra River, including wetlands, from the Piedra Falls Ditch to the confluence with Pagosa Creek.

COSJPI03	Classifications		Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT	acute			chronic	
Reviewable	Aq Life Cold 1		Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E 4/1 - 10/31			acute	chronic	Arsenic(T)	---	0.02	
	Recreation N 11/1 - 3/31		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
	Water Supply		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Qualifiers:			pH	6.5 - 9.0	---	Chromium III	---	TVS	
Other:			chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---	
*Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.			E. Coli (per 100 mL)	4/1 - 10/31	---	126	Chromium VI	TVS	TVS
			E. Coli (per 100 mL)	11/1 - 3/31	---	630	Copper	TVS	TVS
			Inorganic (mg/L)			Iron	---	WS	
				acute	chronic	Iron(T)	---	1000	
			Ammonia	TVS	TVS	Lead	TVS	TVS	
			Boron	---	0.75	Lead(T)	50	---	
			Chloride	---	250	Manganese	TVS	TVS/WS	
			Chlorine	0.019	0.011	Mercury(T)	---	0.01	
			Cyanide	0.005	---	Molybdenum(T)	---	150	
			Nitrate	10	---	Nickel	TVS	TVS	
			Nitrite	---	0.05	Nickel(T)	---	100	
			Phosphorus	---	0.14 TVS	Selenium	TVS	TVS	
			Sulfate	---	WS	Silver	TVS	TVS(tr)	
			Sulfide	---	0.002	Uranium	varies*	varies*	
						Zinc	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Piedra River Basin

4a. Mainstem of the Piedra River from a point immediately below the confluence with Indian Creek to the Southern Ute Indian Reservation boundary. Devil Creek, including wetlands, from Dunagan Canyon to the confluence with the Piedra River.

COSJPI04A	Classifications	Physical and Biological				Metals (ug/L)		
Designation	Agriculture	DM		MWAT		acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	11/1 - 3/31	CS-II	CS-II	Arsenic	340	---
	Recreation E	Temperature °C	4/1 - 10/31	varies*	varies* ^C	Arsenic(T)	---	0.02
	Water Supply					Cadmium	TVS	TVS
Qualifiers:				acute	chronic	Cadmium(T)	5.0	---
Other:		D.O. (mg/L)	---	6.0		Chromium III	---	TVS
		D.O. (spawning)	---	7.0		Chromium III(T)	50	---
		pH	6.5 - 9.0	---		Chromium VI	TVS	TVS
		chlorophyll a (mg/m ²)	---	450 TVS		Copper	TVS	TVS
		E. Coli (per 100 mL)	---	126		Iron	---	WS
						Iron(T)	---	1000
		Inorganic (mg/L)				Lead	TVS	TVS
				acute	chronic	Lead(T)	50	---
		Ammonia	TVS	TVS		Manganese	TVS	TVS/WS
		Boron	---	0.75		Mercury(T)	---	0.01
		Chloride	---	250		Molybdenum(T)	---	150
		Chlorine	0.019	0.011		Nickel	TVS	TVS
		Cyanide	0.005	---		Nickel(T)	---	100
		Nitrate	10	---		Selenium	TVS	TVS
		Nitrite	---	0.05		Silver	TVS	TVS(tr)
		Phosphorus	---	0.44 TVS		Uranium	varies*	varies*
		Sulfate	---	WS		Zinc	TVS	TVS(sc)
		Sulfide	---	0.002				

4b. Mainstem of the Piedra River from the Southern Ute Indian Reservation boundary to a point above the confluence with Stollsteimer Creek.

COSJPI04B	Classifications	Physical and Biological				Metals (ug/L)		
Designation	Agriculture	DM		MWAT		acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	11/1 - 3/31	CS-II	CS-II	Arsenic	340	---
	Recreation E	Temperature °C	4/1 - 10/31	28.8*	22.8* ^C	Arsenic(T)	---	0.02
	Water Supply					Cadmium	TVS	TVS
Qualifiers:				acute	chronic	Cadmium(T)	5.0	---
Other:		D.O. (mg/L)	---	6.0		Chromium III	---	TVS
		D.O. (spawning)	---	7.0		Chromium III(T)	50	---
		pH	6.5 - 9.0	---		Chromium VI	TVS	TVS
		chlorophyll a (mg/m ²)	---	TVS		Copper	TVS	TVS
		E. Coli (per 100 mL)	---	126		Iron	---	WS
						Iron(T)	---	1000
		Inorganic (mg/L)				Lead	TVS	TVS
				acute	chronic	Lead(T)	50	---
		Ammonia	TVS	TVS		Manganese	TVS	TVS/WS
		Boron	---	0.75		Mercury(T)	---	0.01
		Chloride	---	250		Molybdenum(T)	---	150
		Chlorine	0.019	0.011		Nickel	TVS	TVS
		Cyanide	0.005	---		Nickel(T)	---	100
		Nitrate	10	---		Selenium	TVS	TVS
		Nitrite	---	0.05		Silver	TVS	TVS(tr)
		Phosphorus	---	---		Uranium	varies*	varies*
		Sulfate	---	WS		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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Piedra River Basin

4c. Mainstem of the Piedra River from a point above the confluence with Stollsteimer Creek to Navajo Reservoir.											
COSJPI04C		Classifications		Physical and Biological				Metals (ug/L)			
Designation		Agriculture		DM		MWAT		acute		chronic	
Reviewable	Aq Life Cold 1			Temperature °C	11/1 - 3/31	CS-II	CS-II	Arsenic	340	---	
	Recreation E			Temperature °C	4/1 - 10/31	28.8*	22.8* °C	Arsenic(T)	---	0.02	
	Water Supply							Cadmium	TVS	TVS	
Qualifiers:						acute	chronic	Cadmium(T)	5.0	---	
Other:				D.O. (mg/L)		---	6.0	Chromium III	---	TVS	
Temporary Modification(s):				D.O. (spawning)		---	7.0	Chromium III(T)	50	---	
Arsenic(chronic) = hybrid				pH		6.5 - 9.0	---	Chromium VI	TVS	TVS	
Expiration Date of 12/31/2024				chlorophyll a (mg/m²)		---	--TVS -	Copper	TVS	TVS	
*Southern Ute Indian Reservation				E. Coli (per 100 mL)		---	126	Iron	---	WS	
*Uranium(acute) = See 34.5(3) for details.								Iron(T)	---	1000	
*Uranium(chronic) = See 34.5(3) for details.								Lead	TVS	TVS	
*Temperature(4/1 - 10/31) =								Lead(T)	50	---	
See Section 34.6(6) for assessment locations.								Manganese	TVS	TVS/WS	
						acute	chronic	Mercury(T)	---	0.01	
				Ammonia		TVS	TVS	Molybdenum(T)	---	150	
				Boron		---	0.75	Nickel	TVS	TVS	
				Chloride		---	250	Nickel(T)	---	100	
				Chlorine		0.019	0.011	Selenium	TVS	TVS	
				Cyanide		0.005	---	Silver	TVS	TVS(tr)	
				Nitrate		10	---	Uranium	varies*	varies*	
				Nitrite		---	0.05	Zinc	TVS	TVS	
				Phosphorus		---	---				
				Sulfate		---	WS				
				Sulfide		---	0.002				

5a. All tributaries to the Piedra River, including all wetlands, from the boundary of the Weminuche Wilderness Area to a point immediately below the confluence with the First Fork of the Piedra River. Devil Creek, including all tributaries and wetlands, from the source to a point below the confluence with Dunagan Canyon.											
COSJPI05A		Classifications		Physical and Biological				Metals (ug/L)			
Designation		Agriculture		DM		MWAT		acute		chronic	
Reviewable	Aq Life Cold 1			Temperature °C		CS-I	CS-I	Arsenic	340	---	
	Recreation E		5/1 - 10/31			acute	chronic	Arsenic(T)	---	0.02	
	Recreation N		11/1 - 4/30			D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
	Water Supply					D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:				pH		6.5 - 9.0	---	Chromium III	---	TVS	
Other:				chlorophyll a (mg/m²)		---	450TVS	Chromium III(T)	50	---	
Temporary Modification(s):				E. Coli (per 100 mL)	5/1 - 10/31	---	126	Chromium VI	TVS	TVS	
Arsenic(chronic) = hybrid				E. Coli (per 100 mL)	11/1 - 4/30	---	630	Copper	TVS	TVS	
Expiration Date of 12/31/2024								Iron	---	WS	
*Uranium(acute) = See 34.5(3) for details.								Iron(T)	---	1000	
*Uranium(chronic) = See 34.5(3) for details.								Lead	TVS	TVS	
				Ammonia		TVS	TVS	Lead(T)	50	---	
				Boron		---	0.75	Manganese	TVS	TVS/WS	
				Chloride		---	250	Mercury(T)	---	0.01	
				Chlorine		0.019	0.011	Molybdenum(T)	---	150	
				Cyanide		0.005	---	Nickel	TVS	TVS	
				Nitrate		10	---	Nickel(T)	---	100	
				Nitrite		---	0.05	Selenium	TVS	TVS	
				Phosphorus		---	0.44TVS	Silver	TVS	TVS(tr)	
				Sulfate		---	WS	Uranium	varies*	varies*	
				Sulfide		---	0.002	Zinc	TVS	TVS(sc)	

5a. All tributaries to the Piedra River, including all wetlands, from the boundary of the Weminuche Wilderness Area to a point immediately below the confluence with the First Fork of the Piedra River. Devil Creek, including all tributaries and wetlands, from the source to a point below the confluence with Dunagan Canyon.

COSJPI05A	Classifications		Physical and Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1		Temperature °C	CS-I CS-I		Arsenic	340 ---
	Recreation E	5/1 - 10/31	acute	chronic		Arsenic(T)	--- 0.02
	Recreation N	11/1 - 4/30	D.O. (mg/L)	---	6.0	Cadmium	TVS TVS
	Water Supply		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---
Qualifiers:			pH	6.5 - 9.0	---	Chromium III	--- TVS
Other:			chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50 ---
Temporary Modification(s):			E. Coli (per 100 mL)	5/1 - 10/31	---	Chromium VI	TVS TVS
Arsenic(chronic) = hybrid			E. Coli (per 100 mL)	11/1 - 4/30	---	Copper	TVS TVS
Expiration Date of 12/31/2024			Inorganic (mg/L)			Iron	--- WS
*Uranium(acute) = See 34.5(3) for details.			acute	chronic		Iron(T)	--- 1000
*Uranium(chronic) = See 34.5(3) for details.			Ammonia	TVS	TVS	Lead	TVS TVS
			Boron	---	0.75	Lead(T)	50 ---
			Chloride	---	250	Manganese	TVS TVS/WS
			Chlorine	0.019	0.011	Mercury(T)	--- 0.01
			Cyanide	0.005	---	Molybdenum(T)	--- 150
			Nitrate	10	---	Nickel	TVS TVS
			Nitrite	---	0.05	Nickel(T)	--- 100
			Phosphorus	---	TVS	Selenium	TVS TVS
			Sulfate	---	WS	Silver	TVS TVS(tr)
			Sulfide	---	0.002	Uranium	varies* varies*
						Zinc	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Piedra River Basin

5b. All tributaries to the Piedra River, including wetlands, from a point immediately below the confluence with the First Fork of the Piedra River to a point immediately below the confluence with Devil Creek, except for the specific listings in Segments 4a and 5a.

COSJPI05B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 34.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 34.5(3) for details.		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS(sc)

6a. All tributaries to the Piedra River, including all wetlands, from a point immediately below the confluence with Devil Creek to Southern Ute Indian Reservation boundary, except the specific listing in Segment 6d.

COSJPI06A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation P	acute		chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 34.5(5). *Phosphorus(chronic) = applies only above the facilities listed at 34.5(5). *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		chlorophyll a (mg/m²)	---	150 *TVS	Chromium III	---	TVS
		E. Coli (per 100 mL)	---	205	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	100	---	Mercury(T)	---	0.01
		Nitrite	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.17 TVS*	Nickel	TVS	TVS
		Sulfate	---	250	Nickel(T)	---	100
		Sulfide	---	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Piedra River Basin

6b. All tributaries including wetlands to the Piedra River from the Southern Ute Indian Reservation boundary to Navajo Reservoir, except for the specific listing in Segment 6c.						
COSJPI06B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture UP Aq Life Warm 2 Recreation P Water Supply	DM	MWAT	acute	chronic	
		WS-III	WS-III	Arsenic	340	---
		acute	chronic	Arsenic(T)	---	0.02-10 ^A
Qualifiers:	<p>Other:</p> <p>*Southern Ute Indian Reservation</p> <p>*Uranium(acute) = See 34.5(3) for details.</p> <p>*Uranium(chronic) = See 34.5(3) for details.</p>	D.O. (mg/L)	---	5.0	Cadmium	TVS
		pH	6.5 - 9.0	---	Cadmium(T)	5.0
		chlorophyll a (mg/m ²)	---	150TVS	Chromium III	---
		E. Coli (per 100 mL)	---	205	Chromium III(T)	50
		Inorganic (mg/L)		---	Chromium VI	---
		acute	chronic	---	Chromium VI	TVS
		Ammonia	TVS	TVS	Copper	TVS
		Boron	---	0.25	Iron	---
		Chloride	---	250	Iron(T)	WS
		Chlorine	0.019	0.011	Lead	1000
		Cyanide	0.005	---	Lead(T)	TVS
		Nitrate	10	---	Lead(T)	TVS
		Nitrite	---	0.5	Manganese	TVS/WS
		Phosphorus	---	0.17TVS	Manganese	TVS
		Sulfate	---	WS	Mercury(T)	---
		Sulfide	---	0.002	Mercury(T)	0.01
					Molybdenum(T)	---
					Molybdenum(T)	150
					Nickel	TVS
					Nickel(T)	TVS
					Nickel(T)	100
					Selenium	TVS
					Selenium	TVS
					Silver	TVS
					Silver	TVS
					Uranium	varies*
					Uranium	varies*
					Zinc	TVS
					Zinc	TVS

6c. Stollsteimer Creek, including all tributaries and wetlands, from the Southern Ute Indian Reservation boundary to the confluence with the Piedra River.						
COSJPI06C	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture UP Aq Life Warm 2 Recreation P Water Supply	DM	MWAT	acute	chronic	
		WS-II	WS-II	Arsenic	340	---
		acute	chronic	Arsenic(T)	---	0.02-10 ^A
Qualifiers:	<p>Other:</p> <p>*Southern Ute Indian Reservation</p> <p>*Uranium(acute) = See 34.5(3) for details.</p> <p>*Uranium(chronic) = See 34.5(3) for details.</p>	D.O. (mg/L)	---	5.0	Cadmium	TVS
		pH	6.5 - 9.0	---	Cadmium	TVS
		chlorophyll a (mg/m ²)	---	150TVS	Cadmium(T)	5.0
		E. Coli (per 100 mL)	---	205	Cadmium(T)	---
		Inorganic (mg/L)		---	Chromium III	TVS
		acute	chronic	---	Chromium III(T)	50
		Ammonia	TVS	TVS	Chromium VI	---
		Boron	---	0.25	Chromium VI	TVS
		Chloride	---	250	Copper	TVS
		Chlorine	0.019	0.011	Iron	---
		Cyanide	0.005	---	Iron	WS
		Nitrate	10	---	Iron(T)	1000
		Nitrite	---	0.5	Lead	TVS
		Phosphorus	---	0.17TVS	Lead	TVS
		Sulfate	---	WS	Lead(T)	---
		Sulfide	---	0.002	Lead(T)	TVS
					Manganese	TVS/WS
					Manganese	TVS
					Mercury(T)	---
					Mercury(T)	0.01
					Molybdenum(T)	---
					Molybdenum(T)	150
					Nickel	TVS
					Nickel	TVS
					Nickel(T)	---
					Nickel(T)	100
					Selenium	TVS
					Selenium	TVS
					Silver	TVS
					Silver	TVS
					Uranium	varies*
					Uranium	varies*
					Zinc	TVS
					Zinc	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Piedra River Basin

6d. Steven's draw, including wetlands, from the outlet of Lake Forest Reservoir to the confluence with Martinez Creek.										
COSJPI06D	Classifications			Physical and Biological			Metals (ug/L)			
Designation	Agriculture				DM	MWAT		acute	chronic	
UP	Aq Life Warm 2			Temperature °C	WS-II	WS-II	Arsenic	340	---	
	Recreation P				acute	chronic	Arsenic(T)	---	100	
Qualifiers:				D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
Other: *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 34.5(5). *Phosphorus(chronic) = applies only above the facilities listed at 34.5(5). *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.				pH	6.5 - 9.0	---	Chromium III	TVS	TVS	
				chlorophyll a (mg/m²)	---	150*TVS	Chromium VI	TVS	TVS	
				E. Coli (per 100 mL)	---	205	Copper	TVS	TVS	
				Inorganic (mg/L)			Iron(T)	---	1000	
					acute	chronic	Lead	TVS	TVS	
				Ammonia	TVS	TVS	Manganese	TVS	TVS	
				Boron	---	0.75	Mercury(T)	---	0.01	
				Chloride	---	250	Molybdenum(T)	---	150	
				Chlorine	0.019	0.011	Nickel	TVS	TVS	
				Cyanide	0.005	---	Selenium	TVS	TVS	
				Nitrate	100	---	Silver	TVS	TVS	
				Nitrite	---	0.5	Uranium	varies*	varies*	
				Phosphorus	---	0.47TVS*	Zinc	TVS	TVS	
				Sulfate	---	---				
				Sulfide	---	0.002				
				7. Hatcher Reservoir, Stevens Reservoir, Sullenbuger Reservoir, Village Lake and Forest Lake.						
COSJPI07	Classifications			Physical and Biological			Metals (ug/L)			
Designation	Agriculture				DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1			Temperature °C	WL	WL	Arsenic	340	---	
	Recreation E	3/2 - 11/30			acute	chronic	Arsenic(T)	---	0.02	
	Recreation N	12/1 - 3/1		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
	Water Supply	pH			6.5 - 9.0	---	Cadmium(T)	5.0	---	
	DUWS*	chlorophyll a (mg/m²ug/L)			---	DUWS	Chromium III	---	TVS	
Qualifiers:				chlorophyll a (ug/L)			---	TVS		
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Classification: DUWS applies to Hatcher Reservoir and Stevens Reservoirs-only. *Nitrogen(chronic) = applies only to DUWS waterbodies *Phosphorus(chronic) = applies only to DUWS waterbodies *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.				E. Coli (per 100 mL)	3/2 - 11/30	---	126	Chromium III(T)	50	---
				E. Coli (per 100 mL)	12/1 - 3/1	---	630	Chromium VI	TVS	TVS
				Inorganic (mg/L)			Copper	TVS	TVS	
					acute	chronic	Iron	---	WS	
				Ammonia	TVS	TVS	Iron(T)	---	1000	
				Boron	---	0.25	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	---	0.5	Nickel	TVS	TVS	
				Nitrogen	---	TVS	Nickel(T)	---	100	
				Phosphorus	---	TVS	Selenium	TVS	TVS	
				Sulfate	---	WS	Silver	TVS	TVS	
				Sulfide	---	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Piedra River Basin

8. Williams Creek Reservoir.

COSJPI08	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	CLL	CLL	Temperature °C	340	---	
	Recreation E 5/1 - 10/31	acute	chronic				
	Recreation N 11/1 - 4/30			D.O. (mg/L)	TVS	TVS	
	Water Supply			D.O. (spawning)	5.0	---	
Qualifiers:		6.5 - 9.0	---	pH	---	TVS	
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.			8*TVS	chlorophyll a (ug/L)	50	---	
			126	E. Coli (per 100 mL) 5/1 - 10/31	TVS	TVS	
			630	E. Coli (per 100 mL) 11/1 - 4/30	TVS	TVS	
		Inorganic (mg/L)			---	WS	
		acute	chronic		---	1000	
		TVS	TVS	Ammonia	TVS	TVS	
		---	0.75	Boron	50	---	
		---	250	Chloride	TVS	TVS/WS	
		0.019	0.011	Chlorine	---	0.01	
		0.005	---	Cyanide	---	150	
		10	---	Nitrate	TVS	TVS	
		---	0.05	Nitrite	---	100	
		---	TVS	Nitrogen	TVS	TVS	
		---	0-025*TVS	Phosphorus	TVS	TVS(tr)	
		---	WS	Sulfate	varies*	varies*	
		---	0.002	Sulfide	TVS	TVS	

9. All lakes and reservoirs tributary to the Piedra River which are within the Weminuche Wilderness Area. This segment includes Window Lake, Monument Lake, Hossick Lake, and Williams Lakes.

COSJPI09	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
OW	Aq Life Cold 1	CL	CL	Temperature °C	340	---	
	Recreation E	acute	chronic				
	Water Supply			D.O. (mg/L)	TVS	TVS	
Qualifiers:				D.O. (spawning)	5.0	---	
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		6.5 - 9.0	---	pH	---	TVS	
			8*TVS	chlorophyll a (ug/L)	50	---	
			126	E. Coli (per 100 mL)	TVS	TVS	
		Inorganic (mg/L)			---	WS	
		acute	chronic		---	1000	
		TVS	TVS	Ammonia	TVS	TVS	
		---	0.75	Boron	50	---	
		---	250	Chloride	TVS	TVS/WS	
		0.019	0.011	Chlorine	---	0.01	
		0.005	---	Cyanide	---	150	
		10	---	Nitrate	TVS	TVS	
		---	0.05	Nitrite	---	100	
		---	TVS	Nitrogen	TVS	TVS	
		---	0-025*TVS	Phosphorus	TVS	TVS(tr)	
		---	WS	Sulfate	varies*	varies*	
		---	0.002	Sulfide	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Piedra River Basin

10. All lakes and reservoirs which are tributary to the Piedra River, from the boundary of the Weminuche Wilderness Area to a point immediately below the confluence with Devil Creek, except the specific listing in Segment 8. This segment includes Palisade Lake, Martin Lake, and O'Connell Lake.										
COSJPI10		Classifications		Physical and Biological			Metals (ug/L)			
Designation	Agriculture			DM	MWAT		acute	chronic		
Reviewable	Aq Life Cold 1			Temperature °C	CL	CL	Arsenic	340	---	
	Recreation E	5/1 - 10/31		acute	chronic		Arsenic(T)	---	0.02	
	Recreation N	11/1 - 4/30		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
	Water Supply			D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Qualifiers:				pH	6.5 - 9.0	---	Chromium III	---	TVS	
Other:				chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---	
				E. Coli (per 100 mL)	5/1 - 10/31	---	126	Chromium VI	TVS	TVS
				E. Coli (per 100 mL)	11/1 - 4/30	---	630	Copper	TVS	TVS
				Inorganic (mg/L)			Iron	---	WS	
				acute	chronic		Iron(T)	---	1000	
				Ammonia	TVS	TVS	Lead	TVS	TVS	
				Boron	---	0.75	Lead(T)	50	---	
				Chloride	---	250	Manganese	TVS	TVS/WS	
				Chlorine	0.019	0.011	Mercury(T)	---	0.01	
				Cyanide	0.005	---	Molybdenum(T)	---	150	
				Nitrate	10	---	Nickel	TVS	TVS	
				Nitrite	---	0.05	Nickel(T)	---	100	
				Nitrogen	---	TVS	Selenium	TVS	TVS	
				Phosphorus	---	0.025*TVS	Silver	TVS	TVS(tr)	
				Sulfate	---	WS	Uranium	varies*	varies*	
				Sulfide	---	0.002	Zinc	TVS	TVS	
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.										

11a. All lakes and reservoirs which are tributary to the Piedra River, from a point immediately below the confluence with Devil Creek to the Southern Ute Indian Reservation boundary. This segment includes Capote Lake.									
COSJPI11A		Classifications		Physical and Biological			Metals (ug/L)		
Designation	Agriculture			DM	MWAT		acute	chronic	
UP	Aq Life Warm 2			Temperature °C	WL	WL	Arsenic	340	---
	Recreation E			acute	chronic		Arsenic(T)	---	0.02
	Water Supply			D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:				pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Water + Fish Standards				chlorophyll a (ug/L)	---	20*TVS	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	---	0.5	Molybdenum(T)	---	150
				Nitrogen	---	TVS	Nickel	TVS	TVS
				Phosphorus	---	0.083*TVS	Nickel(T)	---	100
				Sulfate	---	WS	Selenium	TVS	TVS
				Sulfide	---	0.002	Silver	TVS	TVS
							Uranium	varies*	varies*
							Zinc	TVS	TVS
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.									

11a. All lakes and reservoirs which are tributary to the Piedra River, from a point immediately below the confluence with Devil Creek to the Southern Ute Indian Reservation boundary. This segment includes Capote Lake.							
COSJPI11A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Qualifiers:							
Water + Fish Standards		chlorophyll a (ug/L)	---	20*TVS	Chromium III	---	TVS
Other:		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	---	0.5	Molybdenum(T)	---	150
		Nitrogen	---	TVS	Nickel	TVS	TVS
		Phosphorus	---	0.083*TVS	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.
*Uranium(acute) = See 34.5(3) for details.
*Uranium(chronic) = See 34.5(3) for details.

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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Piedra River Basin

11b. All lakes and reservoirs which are tributary to the Piedra River from the Southern Ute Indian Reservation boundary to Navajo Reservoir.					
COSJPI11B	Classifications	Physical and Biological		Metals (ug/L)	
Designation		DM	MWAT	acute	chronic
UP	Agriculture				
	Aq Life Warm 2	WL	WL	Arsenic	340
	Recreation P	acute	chronic	Arsenic(T)	0.02-10 ^A
	Water Supply			Cadmium	TVS
Qualifiers:		D.O. (mg/L)	5.0	Cadmium(T)	TVS
Other: *Southern Ute Indian Reservation *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		pH	6.5 - 9.0	Cadmium(T)	5.0
		chlorophyll a (ug/L)	20*TVS	Chromium III	TVS
		E. Coli (per 100 mL)	205	Chromium III(T)	50
		Inorganic (mg/L)		Chromium VI	TVS
		acute	chronic	Copper	TVS
		Ammonia	TVS	Iron	WS
		Boron	0.25	Iron(T)	1000
		Chloride	250	Lead	TVS
		Chlorine	0.019	Lead(T)	50
		Cyanide	0.005	Manganese	TVS
		Nitrate	10	Mercury(T)	0.01
		Nitrite	0.5	Molybdenum(T)	150
		Nitrogen	TVS	Nickel	TVS
		Phosphorus	0.083*TVS	Nickel(T)	100
		Sulfate	WS	Selenium	TVS
		Sulfide	0.002	Silver	TVS
				Uranium	varies*
				Zinc	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Los Pinos River Basin

1. All tributaries to the Los Pinos River, including all wetlands, which are within the Weminuche Wilderness Area.

COSJPN01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		chlorophyll a (mg/m ²)	---	150 TVS	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	---	0.14 TVS	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

2a. Mainstem of the Los Pinos River from the boundary of the Weminuche Wilderness Area to the boundary of the Southern Ute Indian Reservation except for the specific listing in Segment 3.

COSJPN02A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
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 34.5(5). *Phosphorus(chronic) = applies only above the facilities listed at 34.5(5). *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		chlorophyll a (mg/m ²)	---	150 TVS	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	---	0.14 TVS*	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Los Pinos River Basin

2b. Mainstem of the Los Pinos River from the boundary of the Southern Ute Indian Reservation to the Pine Ditch Diversion (37.1906, -107.58778).							
COSJPN02B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	1000
*Southern Ute Indian Reservation		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(acute) = See 34.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
*Uranium(chronic) = See 34.5(3) for details.		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

2c. Mainstem of the Los Pinos River from the Pine Ditch Diversion (37.1906, -107.58778) to above the confluence with Dry Creek. --Mainstem of Beaver Creek, including wetlands, from the boundary of the Southern Ute Indian Reservation to the confluence with the Los Pinos River.							
COSJPN02C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
*Southern Ute Indian Reservation		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(acute) = See 34.5(3) for details.					Copper	TVS	TVS
*Uranium(chronic) = See 34.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Los Pinos River Basin

2d. Mainstem of the Los Pinos River from above the confluence with Dry Creek to New Mexico state line. Mainstems of Dry Creek, Ute Creek, Spring Creek and Rock Creek, including wetlands, from the boundary of the Southern Ute Indian Reservation to the confluence with the Los Pinos River.

COSJPN02D	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---	
	Recreation E	acute		chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
*Southern Ute Indian Reservation *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		chlorophyll a (mg/m²)	---	--- TVS	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
				acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	---	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	

3. Vallecito Reservoir.

COSJPN03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CLL	CLL	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (ug/L)	---	---TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Los Pinos River Basin

4. All tributaries to the Los Pinos River and Vallecito Reservoir, including all wetlands, from the boundary of the Weminuche Wilderness Area to a point immediately below the confluence with Bear Creek-, except for the specific listing in Segment 5; mainstems of Beaver Creek, Ute Creek, and Spring Creek, including wetlands, from their sources to the boundary of the Southern Ute Indian Reservation.

COSJPN04	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 34.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 34.5(3) for details.		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS(sc)

5. Mainstem of Vallecito Creek, including wetlands, from the boundary of the Weminuche Wilderness Area to Vallecito Reservoir.

COSJPN05	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 34.5(5).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 34.5(5).</div> <div>*Uranium(acute) = See 34.5(3) for details.</div> <div>*Uranium(chronic) = See 34.5(3) for details.</div>		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Los Pinos River Basin

6. All tributaries to the Los Pinos River, including all wetlands, from a point immediately below the confluence with Bear Creek to the boundary of the Southern Ute Indian Reservation except for specific listings in Segment 4.

COSJPN06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Beryllium(T)	---	100
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
Fish Ingestion		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	150 TVS	Chromium III	TVS	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	---	100
Arsenic(chronic) = hybrid					Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Copper	TVS	TVS
*Uranium(acute) = See 34.5(3) for details.		acute		chronic	Iron	---	WS
*Uranium(chronic) = See 34.5(3) for details.		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	---	---	Nickel	TVS	TVS
		Phosphorus	---	0.14 TVS	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

7a. All tributaries to the Los Pinos River, including wetlands, from the Southern Ute Indian Reservation boundary to the Colorado/New Mexico border, except for the specific listings in Segments 2c and 2d.

COSJPN07A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 2	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	6.0	Beryllium(T)	---	100
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
Other:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
*Southern Ute Indian Reservation *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		chlorophyll a (mg/m²)	---	150 TVS	Chromium III	TVS	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	---	100
					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	---	---	Nickel	TVS	TVS
		Phosphorus	---	0.17 TVS	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Los Pinos River Basin

7b. Trail Canyon, including all tributaries and wetlands, from their sources to the New Mexico border.

COSJPN07B		Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m ²)	---	150TVS	Chromium VI	TVS	TVS
		E. Coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron(T)	---	1000
					Lead	TVS	TVS
		Inorganic (mg/L)			Manganese	TVS	TVS
			acute	chronic	Mercury(T)	---	0.01
		Ammonia	TVS	TVS	Molybdenum(T)	---	150
		Boron	---	0.75	Nickel	TVS	TVS
		Chloride	---	---	Selenium	TVS	TVS
		Chlorine	0.019	0.011	Silver	TVS	TVS
		Cyanide	0.005	---	Uranium	varies*	varies*
		Nitrate	100	---	Zinc	TVS	TVS
		Nitrite	---	0.05			
		Phosphorus	---	0.47TVS			
		Sulfate	---	---			
		Sulfide	---	0.002			

8. All lakes and reservoirs tributary to the Los Pinos River which are within the Weminuche Wilderness Area, except for the specific listing in Segment 9. This includes Granite Lake, Divide Lakes, Elk Lake, Flint Lakes, Moon Lake, Rock Lake, Betty Lake, Lost Lake, Hidden Lake, Vallecito Lake, Eldorado Lake, Trinity Lake, Leviathan Lake, Sunlight Lake, Hazel Lake, and Columbine Lake.

COSJPN08	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
OW	Aq Life Cold 1	Temperature °C	CL CL	Arsenic	340 ---	
	Recreation E	acute	chronic	Arsenic(T)	--- 0.02	
	Water Supply	D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS	
Qualifiers:		D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---	
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		pH	6.5 - 9.0 ---	Chromium III	--- TVS	
		chlorophyll a (ug/L)	--- 8*TVS	Chromium III(T)	50 ---	
		E. Coli (per 100 mL)	--- 126	Chromium VI	TVS TVS	
				Copper	TVS TVS	
		Inorganic (mg/L)		Iron	--- WS	
			acute	chronic	Iron(T)	--- 1000
		Ammonia	TVS	TVS	Lead	TVS TVS
		Boron	---	0.75	Lead(T)	50 ---
		Chloride	---	250	Manganese	TVS TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	--- 0.01
		Cyanide	0.005	---	Molybdenum(T)	--- 150
		Nitrate	10	---	Nickel	TVS TVS
		Nitrite	---	0.05	Nickel(T)	--- 100
		<u>Nitrogen</u>	---	TVS	Selenium	TVS TVS
		Phosphorus	---	0.025*TVS	Silver	TVS TVS(tr)
Sulfate	---	WS	Uranium	varies* varies*		
Sulfide	---	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Los Pinos River Basin

9. Emerald Lake.

COSJPN09	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute		chronic	
OW	Aq Life Cold 1	Temperature °C	CLL	CLL	Arsenic	340	---	
	Recreation E	acute		chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
<div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 34.5(3) for details.</div> <div>*Uranium(chronic) = See 34.5(3) for details.</div>		chlorophyll a (ug/L)	---	8±TVS	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
		Inorganic (mg/L)			Copper	TVS	TVS	
					Iron	---	WS	
					Iron(T)	---	1000	
					Lead	TVS	TVS	
					Lead(T)	50	---	
					Manganese	TVS	TVS/WS	
					Mercury(T)	---	0.01	
					Molybdenum(T)	---	150	
					Nickel	TVS	TVS	
					Nickel(T)	---	100	
					Selenium	TVS	TVS	
					Silver	TVS	TVS(tr)	
					Uranium	varies*	varies*	
					Sulfide	---	0.002	Zinc

10. All lakes and reservoirs tributary to the Los Pinos River and Vallecito Reservoir from the boundary of the Weminuche Wilderness Area to a point immediately below the confluence with Bear Creek (T35N, R7W), except for the specific listing in Segment 3. This segment includes Lake Simpatico.

COSJPN10	Classifications	Physical and Biological		Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
<div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 34.5(3) for details.</div> <div>*Uranium(chronic) = See 34.5(3) for details.</div>		chlorophyll a (ug/L)	---	8±TVS	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
		Nitrogen	---	TVS	Nickel(T)	---	100
		Phosphorus	---	0-025*TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Los Pinos River Basin

11a. All lakes and reservoirs tributary to the Los Pinos River, from a point immediately below the confluence with Bear Creek (T35N, R7W) to the boundary of the Southern Ute Indian Reservation.

COSJPN11A	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 2 Recreation E	CL	CL	Arsenic	340
Qualifiers:		acute	chronic	Arsenic(T)	---
Other:				Beryllium(T)	100
<p>*Chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Uranium(acute) = See 34.5(3) for details.</p> <p>*Uranium(chronic) = See 34.5(3) for details.</p>	D.O. (mg/L)	---	6.0	Cadmium	TVS
	D.O. (spawning)	---	7.0	Chromium III	TVS
	pH	6.5 - 9.0	---	Chromium III(T)	100
	chlorophyll a (ug/L)	---	8*TVS	Chromium VI	TVS
	E. Coli (per 100 mL)	---	126	Copper	TVS
				Iron(T)	---
				Lead	TVS
				Manganese	TVS
				Mercury(T)	---
				Molybdenum(T)	150
				Nickel	TVS
				Selenium	TVS
				Silver	TVS
				Uranium	varies*
				Zinc	TVS

11b. All lakes and reservoirs tributary to the Los Pinos River, from the Southern Ute Indian Reservation boundary to the Colorado/New Mexico border. This segment includes Harper Pond.

COSJPN11B	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 2 Recreation E	CL	CL	Arsenic	340
Qualifiers:		acute	chronic	Arsenic(T)	---
Other:				Beryllium(T)	100
<p>*Southern Ute Indian Reservation</p> <p>*Chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Uranium(acute) = See 34.5(3) for details.</p> <p>*Uranium(chronic) = See 34.5(3) for details.</p>	D.O. (mg/L)	---	6.0	Cadmium	TVS
	D.O. (spawning)	---	7.0	Chromium III	TVS
	pH	6.5 - 9.0	---	Chromium III(T)	100
	chlorophyll a (ug/L)	---	20*TVS	Chromium VI	TVS
	E. Coli (per 100 mL)	---	126	Copper	TVS
				Iron(T)	---
				Lead	TVS
				Manganese	TVS
				Mercury(T)	---
				Molybdenum(T)	150
				Nickel	TVS
				Selenium	TVS
				Silver	TVS
				Uranium	varies*
				Zinc	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Animas and Florida River Basins

1. All tributaries to the Animas River and Florida River, including all wetlands, which are within the Weminuche Wilderness Area. Mainstem Grasshopper Creek including tributaries and wetlands from source to confluence with Animas River. Mainstem Lime Creek including tributaries and wetlands from source to confluence with Cascade Creek.

COSJAF01	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT		acute	chronic	
OW	Agriculture						
	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	150 TVS	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	---	0.14 TVS	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

2. Mainstem of the Animas River, including all tributaries and wetlands, from the outlet of Denver Lake to a point immediately above the confluence with Minnie Gulch, except for specific listings in Segment 6.

COSJAF02	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT		acute	chronic	
UP	Agriculture						
	Recreation E				Arsenic(T)	---	100
Qualifiers:		acute	chronic		Beryllium(T)	---	100
Other: *The concentration of dissolved aluminum, cadmium, copper, iron, lead, manganese, and zinc that is directed toward maintaining and achieving standards established for segments 3a, 4a and 4b. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		D.O. (mg/L)	---	3.0	Cadmium(T)	---	10
		pH	5.8-9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m ²)	---	150 TVS	Chromium VI(T)	---	100
		E. Coli (per 100 mL)	---	126	Copper(T)	---	200
		Inorganic (mg/L)			Iron	---	---
		acute	chronic		Lead(T)	---	100
		Ammonia	---	---	Manganese	---	---
		Boron	---	0.75	Mercury(T)	---	---
		Chloride	---	---	Molybdenum(T)	---	150
		Chlorine	---	---	Nickel(T)	---	200
		Cyanide	0.2	---	Selenium(T)	---	20
		Nitrate	---	100	Silver	---	---
		Nitrite	10	---	Uranium	varies*	varies*
		Phosphorus	---	---	Zinc(T)	---	2000
		Sulfate	---	---			
		Sulfide	---	---			

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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Animas and Florida River Basins

3a. Mainstem of the Animas River, including wetlands, from a point immediately below the confluence with Minnie Gulch to immediately above the confluence with Cement Creek.										
COSJAF03A		Classifications		Physical and Biological				Metals (ug/L)		
Designation	Agriculture			DM	MWAT			acute	chronic	
Reviewable	Aq Life Cold 1*			Temperature °C	CS-I	CS-I		Aluminum(T)	750	750
	Recreation E				acute	chronic		Arsenic	340	---
Qualifiers:				D.O. (mg/L)	---	6.0		Arsenic(T)	---	100
Other: *Classification: Aquatic life indicator goal: Brook Trout *Cadmium(chronic) = 3.5 ug/L from 4/1-4/30 2.2 ug/L from 5/1-5/31 TVS from 6/1-3/31 *Manganese(chronic) = See section 34.6(6) for site-specific standards. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details. *Zinc(acute) = See section 34.6(6) for site-specific standards. *Zinc(chronic) = See section 34.6(6) for site-specific standards.				D.O. (spawning)	---	7.0		Cadmium	TVS	varies*
				pH	6.5 - 9.0	---		Chromium III	TVS	TVS
				chlorophyll a (mg/m²)	---	150 TVS		Chromium III(T)	---	100
				E. Coli (per 100 mL)	---	126		Chromium VI	TVS	TVS
								Copper	TVS	TVS
				Inorganic (mg/L)				Iron(T)	---	1000
					acute	chronic	Lead	TVS	TVS	
				Ammonia	TVS	TVS	Manganese	---	varies*	
				Boron	---	0.75	Mercury(T)	---	0.01	
				Chloride	---	---	Molybdenum(T)	---	150	
				Chlorine	0.019	0.011	Nickel	TVS	TVS	
				Cyanide	0.005	---	Selenium	TVS	TVS	
				Nitrate	100	---	Silver	TVS	TVS(tr)	
				Nitrite	---	---	Uranium	varies*	varies*	
				Phosphorus	---	0.44 TVS	Zinc	varies*	varies*	
				Sulfate	---	---				
				Sulfide	---	0.002				
3b. Mainstem of the Animas River, including wetlands, from a point immediately above the confluence with Cement Creek to a point immediately above the confluence with Mineral Creek.										
COSJAF03B		Classifications		Physical and Biological				Metals (ug/L)		
Designation	Recreation E	5/15 - 9/10		DM	MWAT			acute	chronic	
UP	Recreation N	9/11 - 5/14						Arsenic	---	---
Qualifiers:					acute	chronic		Cadmium	---	---
Other: *The concentration of dissolved aluminum, cadmium, copper, iron, lead, manganese, and zinc that is directed toward maintaining and achieving water quality standards established for segments 4a and 4b. *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 34.5(5). *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.				D.O. (mg/L)	---	3.0		Chromium III	---	---
				pH	6.0-9.0	---		Chromium VI	---	---
				chlorophyll a (mg/m²)	---	150 *TVS		Copper	---	---
				E. Coli (per 100 mL)	5/15 - 9/10	---	126	Iron	---	---
				E. Coli (per 100 mL)	9/11 - 5/14	---	630	Lead	---	---
								Manganese	---	---
				Inorganic (mg/L)				Mercury(T)	---	---
					acute	chronic	Molybdenum(T)	---	---	
				Ammonia	---	---	Nickel	---	---	
				Boron	---	---	Selenium	---	---	
				Chloride	---	---	Silver	---	---	
				Chlorine	---	---	Uranium	varies*	varies*	
				Cyanide	---	---	Zinc	---	---	
				Nitrate	---	---				
				Nitrite	---	---				
				Phosphorus	---	---				
				Sulfate	---	---				
Sulfide	---	---								

3b. Mainstem of the Animas River, including wetlands, from a point immediately above the confluence with Cement Creek to a point immediately above the confluence with Mineral Creek.											
COSJAF03B		Classifications		Physical and Biological				Metals (ug/L)			
Designation	Recreation E	5/15 - 9/10	DM		MWAT		acute		chronic		
	UP	Recreation N	9/11 - 5/14					Arsenic	---	---	
Qualifiers:			acute		chronic		Cadmium		---	---	
<div>Other:</div> <p>*The concentration of dissolved aluminum, cadmium, copper, iron, lead, manganese, and zinc that is directed toward maintaining and achieving water quality standards established for segments 4a and 4b.</p> <p>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 34.5(5).</p> <p>*Uranium(acute) = See 34.5(3) for details.</p> <p>*Uranium(chronic) = See 34.5(3) for details.</p>			D.O. (mg/L)		---	3.0	Chromium III		---	---	
			pH		6.0-9.0	---	Chromium VI		---	---	
			chlorophyll a (mg/m ²)		---	150*TVS	Copper		---	---	
			E. Coli (per 100 mL)		5/15 - 9/10	---	126	Iron		---	---
			E. Coli (per 100 mL)		9/11 - 5/14	---	630	Lead		---	---
							Manganese		---	---	
							Mercury(T)		---	---	
							Molybdenum(T)		---	---	
							Nickel		---	---	
							Selenium		---	---	
			Inorganic (mg/L)		chronic		Silver		---	---	
			acute		chronic		Uranium		varies*	varies*	
			Ammonia		---	---	Zinc		---	---	
			Boron		---	---					
			Chloride		---	---					
			Chlorine		---	---					
			Cyanide		---	---					
			Nitrate		---	---					
			Nitrite		---	---					
			Phosphorus		---	---					
			Sulfate		---	---					
			Sulfide		---	---					

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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Animas and Florida River Basins

3c. Arrastra Gulch including all tributaries and wetlands from the source to the confluence with the Animas River.								
COSJAF03C	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
UP	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	100		
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Other: *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS	
		pH	6.5 - 9.0	---	Chromium III(T)	---	100	
		chlorophyll a (mg/m²)	---	150 TVS	Chromium VI	TVS	TVS	
		E. Coli (per 100 mL)	---	126	Copper	TVS	TVS	
					Iron(T)	---	1000	
		Inorganic (mg/L)			Lead	TVS	TVS	
			acute	chronic	Manganese	TVS	TVS	
		Ammonia	TVS	TVS	Mercury(T)	---	0.01	
		Boron	---	0.75	Molybdenum(T)	---	150	
		Chloride	---	---	Nickel	TVS	TVS	
		Chlorine	0.019	0.011	Selenium	TVS	TVS	
		Cyanide	0.005	---	Silver	TVS	TVS(tr)	
		Nitrate	100	---	Uranium	varies*	varies*	
		Nitrite	---	0.05	Zinc	TVS	TVS	
		Phosphorus	---	0.14 TVS				
		Sulfate	---	---				
		Sulfide	---	0.002				
		4a. Mainstem of the Animas River, including wetlands, from a point immediately above the confluence with Mineral Creek to a point immediately above the confluence with Deer Park Creek.						
		COSJAF04A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic			
UP	Aq Life Cold 2*	Temperature °C	CS-I	CS-I	Aluminum(T)	varies*	varies*	
	Recreation E	acute	chronic	Arsenic	340	---		
Qualifiers:		D.O. (mg/L)	---	6.0	Arsenic(T)	---	100	
Other: *Classification: Aquatic life indicator goal: Brook Trout *Aluminum(T)(acute) = See section 34.6(6) for site-specific standards. *Aluminum(T)(chronic) = See section 34.6(6) for site-specific standards. *Iron(T)(chronic) = See section 34.6(6) for site-specific standards. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details. *Zinc(acute) = See section 34.6(6) for site-specific standards. *Zinc(chronic) = See section 34.6(6) for site-specific standards. *pH(acute) = See section 34.6(6) for site-specific standards.		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS	
		pH	varies*	---	Chromium III	TVS	TVS	
		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	---	100	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron(T)	---	varies*	
			acute	chronic	Lead	TVS	TVS	
		Ammonia	TVS	TVS	Manganese	TVS	TVS	
		Boron	---	0.75	Mercury(T)	---	0.01	
		Chloride	---	---	Molybdenum(T)	---	150	
		Chlorine	0.019	0.011	Nickel	TVS	TVS	
		Cyanide	0.005	---	Selenium	TVS	TVS	
		Nitrate	100	---	Silver	TVS	TVS(tr)	
		Nitrite	---	---	Uranium	varies*	varies*	
		Phosphorus	---	---	Zinc	varies*	varies*	
		Sulfate	---	---				
		Sulfide	---	0.002				

4a. Mainstem of the Animas River, including wetlands, from a point immediately above the confluence with Mineral Creek to a point immediately above the confluence with Deer Park Creek.								
COSJAF04A	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT		acute	chronic	
UP	Aq Life Cold 2*	Temperature °C	CS-I	CS-I	Aluminum(T)	varies*	varies*	
	Recreation E		acute	chronic	Arsenic	340	---	
Qualifiers:		D.O. (mg/L)	---	6.0	Arsenic(T)	---	100	
Other: *Classification: Aquatic life indicator goal: Brook Trout *Aluminum(T)(acute) = See section 34.6(6) for site-specific standards. *Aluminum(T)(chronic) = See section 34.6(6) for site-specific standards. *Iron(T)(chronic) = See section 34.6(6) for site-specific standards. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details. *Zinc(acute) = See section 34.6(6) for site-specific standards. *Zinc(chronic) = See section 34.6(6) for site-specific standards. *pH(acute) = See section 34.6(6) for site-specific standards.		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS	
		pH	varies*	---	Chromium III	TVS	TVS	
		chlorophyll a (mg/m²)	---	—TVS—	Chromium III(T)	---	100	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
						Iron(T)	---	varies*
						Lead	TVS	TVS
						Manganese	TVS	TVS
						Mercury(T)	---	0.01
						Molybdenum(T)	---	150
						Nickel	TVS	TVS
						Selenium	TVS	TVS
						Silver	TVS	TVS(tr)
						Uranium	varies*	varies*
						Zinc	varies*	varies*

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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Animas and Florida River Basins

4b. Mainstem of the Animas River, including wetlands, from a point immediately above the confluence with Deer Park Creek to Bakers Bridge (37.458620, -107.799194).							
COSJAF04B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum(T)	TVS	TVS
	Recreation E	acute	chronic		Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
Other:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	TVS	Chromium III	---	TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Expiration Date of 12/31/2024					Chromium VI	TVS	TVS
*Uranium(acute) = See 34.5(3) for details.		Inorganic (mg/L)			Copper	TVS	TVS
*Uranium(chronic) = See 34.5(3) for details.		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

5a. Mainstem of the Animas River, including wetlands, from Bakers Bridge (37.458620, -107.799194) to the Southern Ute Indian Reservation boundary.							
COSJAF05A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum(T)	TVS	TVS
	Recreation E	acute	chronic		Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
Other:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	TVS	Chromium III	---	TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Expiration Date of 12/31/2024					Chromium VI	TVS	TVS
*Uranium(acute) = See 34.5(3) for details.		Inorganic (mg/L)			Copper	TVS	TVS
*Uranium(chronic) = See 34.5(3) for details.		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

5a. Mainstem of the Animas River, including wetlands, from Bakers Bridge (37.458620, -107.799194) to the Southern Ute Indian Reservation boundary.							
COSJAF05A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum(T)	TVS	TVS
	Recreation E	acute	chronic		Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
Other:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Temporary Modification(s):		chlorophyll a (mg/m²)	---	---TVS	Chromium III	---	TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Expiration Date of 12/31/2024					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

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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Animas and Florida River Basins

5b. Mainstem of the Animas River, including wetlands, from the Southern Ute Indian Reservation boundary (37.214880 -107.855102) to Basin Creek.						
COSJAF05B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum(T)	TVS
	Recreation E	acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	TVS
Other:		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	--TVS	Chromium III	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50
Expiration Date of 12/31/2024					Chromium VI	TVS
					Copper	TVS
					Iron	---
					Iron(T)	---
					Lead	TVS
					Lead(T)	50
					Manganese	TVS
					Mercury(T)	---
					Molybdenum(T)	---
					Nickel	TVS
					Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	TVS

5c. Mainstem of the Animas River, including wetlands, from Basin Creek to above the confluence with the Florida River.						
COSJAF05C	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum(T)	TVS
	Recreation E	acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	TVS
Other:		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	--TVS	Chromium III	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50
Expiration Date of 12/31/2024					Chromium VI	TVS
					Copper	TVS
					Iron	---
					Iron(T)	---
					Lead	TVS
					Lead(T)	50
					Manganese	TVS
					Mercury(T)	---
					Molybdenum(T)	---
					Nickel	TVS
					Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Animas and Florida River Basins

5d. Mainstem of the Animas River, including wetlands from above the confluence with the Florida River to New Mexico state line.						
COSJAF05D	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum(T)	TVS
	Recreation E	acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	TVS
Other:		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	TVS	Chromium III	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50
Expiration Date of 12/31/2024		Inorganic (mg/L)		Chromium VI	TVS	TVS
*Southern Ute Indian Reservation		acute		Copper	TVS	TVS
*Uranium(acute) = See 34.5(3) for details.		chronic		Iron	---	WS
*Uranium(chronic) = See 34.5(3) for details.		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Phosphorus	---	---	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
					Uranium	varies*
					Zinc	TVS
						TVS

6. All tributaries and wetlands to the Animas River from the source to the outlet of Denver Lake. Mainstem, including all tributaries and wetlands of Cinnamon Creek, Grouse Gulch, Picayne Gulch, and Minnie Gulch. All tributaries and wetlands to the Animas River from immediately above Maggie Gulch to a point immediately above Elk Creek, except for those listed under segments 3c, 7, 8a, 8b, 9, and 12c. South Mineral Creek and all other tributaries and wetlands to Mineral Creek, except for those specifically listed in segments 8a, 9, and 12c.						
COSJAF06	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	TVS	Chromium III(T)	50
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)		Copper	TVS	TVS
*Uranium(acute) = See 34.5(3) for details.		acute		Iron	---	WS
*Uranium(chronic) = See 34.5(3) for details.		chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Animas and Florida River Basins

7. Mainstem of Cement Creek, including all tributaries, and wetlands, from the source to the confluence with the Animas River.						
COSJAF07	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Recreation E			Arsenic(T)	---	100
Qualifiers:		acute	chronic	Beryllium(T)	---	100
Other:	D.O. (mg/L)	---	3.0	Cadmium(T)	---	10
	pH	3.7-9.0	---	Chromium III(T)	---	100
	chlorophyll a (mg/m²)	---	150TVS	Chromium VI(T)	---	100
	E. Coli (per 100 mL)	---	126	Copper(T)	---	200
	Inorganic (mg/L)			Iron	---	---
	acute	chronic	Lead(T)	---	100	
	Ammonia	---	---	Manganese	---	---
	Boron	---	0.75	Mercury(T)	---	---
	Chloride	---	---	Molybdenum(T)	---	150
	Chlorine	---	---	Nickel(T)	---	200
	Cyanide	0.2	---	Selenium(T)	---	20
	Nitrate	100	---	Silver	---	---
	Nitrite	10	---	Uranium	varies*	varies*
	Phosphorus	---	---	Zinc(T)	---	2000
	Sulfate	---	---			
	Sulfide	---	---			
8a. Mainstem of Mineral Creek, including all wetlands and tributaries on the east side (except for Big Horn Creek), from the source to a point immediately above the confluence with South Mineral Creek, except for the listing in segment 8b. Mainstem of the Middle Fork of Mineral Creek, including all tributaries and wetlands, from the source to the confluence with Mineral Creek, except for the unnamed tributary exiting Crystal Lake, from the outlet of Crystal Lake to the confluence with the Middle Fork of Mineral Creek.						
COSJAF08A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Recreation E			Arsenic(T)	---	100
Qualifiers:		acute	chronic	Beryllium(T)	---	100
Other:	D.O. (mg/L)	---	3.0	Cadmium(T)	---	10
	pH	4.5-9.0	---	Chromium III(T)	---	100
	chlorophyll a (mg/m²)	---	150TVS	Chromium VI(T)	---	100
	E. Coli (per 100 mL)	---	126	Copper(T)	---	200
	Inorganic (mg/L)			Iron	---	---
	acute	chronic	Lead(T)	---	100	
	Ammonia	---	---	Manganese	---	---
	Boron	---	0.75	Mercury(T)	---	---
	Chloride	---	---	Molybdenum(T)	---	150
	Chlorine	---	---	Nickel(T)	---	200
	Cyanide	0.2	---	Selenium(T)	---	20
	Nitrate	100	---	Silver	---	---
	Nitrite	10	---	Uranium	varies*	varies*
	Phosphorus	---	---	Zinc(T)	---	2000
	Sulfate	---	---			
	Sulfide	---	---			

8a. Mainstem of Mineral Creek, including all wetlands and tributaries on the east side (except for Big Horn Creek), from the source to a point immediately above the confluence with South Mineral Creek, except for the listing in segment 8b. Mainstem of the Middle Fork of Mineral Creek, including all tributaries and wetlands, from the source to the confluence with Mineral Creek, except for the unnamed tributary exiting Crystal Lake, from the outlet of Crystal Lake to the confluence with the Middle Fork of Mineral Creek.

COSJAF08A	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Recreation E			Arsenic(T)	100	
Qualifiers:		acute	chronic	Beryllium(T)	100	
Other: *The concentration of dissolved aluminum, cadmium, copper, iron, lead, manganese, and zinc that is directed toward maintaining and achieving water quality standards established for segments 4a and 4b. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.	D.O. (mg/L)	---	3.0	Cadmium(T)	10	
	pH	4.5-9.0	---	Chromium III(T)	100	
	chlorophyll a (mg/m ²)	---	150TVS	Chromium VI(T)	100	
	E. Coli (per 100 mL)	---	126	Copper(T)	200	
	Inorganic (mg/L)		Iron	---	---	
	acute	chronic	Lead(T)	---	100	
	Ammonia	---	---	Manganese	---	---
	Boron	---	0.75	Mercury(T)	---	---
	Chloride	---	---	Molybdenum(T)	---	150
	Chlorine	---	---	Nickel(T)	---	200
	Cyanide	0.2	---	Selenium(T)	---	20
	Nitrate	100	---	Silver	---	---
	Nitrite	10	---	Uranium	varies*	varies*
	Phosphorus	---	---	Zinc(T)	---	2000
	Sulfate	---	---			
	Sulfide	---	---			

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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

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8b. Mainstem of Mineral Creek from a point immediately below the confluence with Mill Creek to a point immediately above the confluence with the Middle Fork of Mineral Creek.							
COSJAF08B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	7.6	
Qualifiers:		D.O. (mg/L)	---	6.0	Beryllium(T)	---	100
Other:		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
*Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	---	100
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron(T)	---	1000
		acute	chronic	Lead	TVS	TVS	
		Ammonia	TVS	TVS	Manganese	TVS	TVS
		Boron	---	0.75	Mercury(T)	---	0.01
		Chloride	---	---	Molybdenum(T)	---	150
		Chlorine	0.019	0.011	Nickel	TVS	TVS
		Cyanide	0.005	---	Selenium	TVS	TVS
		Nitrate	100	---	Silver	TVS	TVS(tr)
		Nitrite	---	0.05	Thallium(T)	---	0.47
		Phosphorus	---	0.44 TVS	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

9. Mainstem of Mineral Creek, including wetlands, from immediately above the confluence with South Mineral Creek to the confluence with the Animas River.							
COSJAF09	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Cold 2*	Temperature °C	CS-I	CS-I	Aluminum(T)	---	varies*
	Recreation E	acute	chronic	Arsenic	340	---	
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02-10 ^A
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
Other:		pH	varies*	---	Cadmium(T)	5.0	---
*Classification: Aquatic Life indicator goal: Macroinvertebrates; Brook Trout corridor *Aluminum(T)(chronic) = See section 34.6(6) for site-specific standards. *Copper(chronic) = See section 34.6(6) for site-specific standards. *Iron(T)(chronic) = See section 34.6(6) for site-specific standards. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details. *Zinc(chronic) = See section 34.6(6) for site-specific standards. *pH(acute) = See section 34.6(6) for site-specific standards.		chlorophyll a (mg/m²)	---	450 TVS	Chromium III	TVS	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
					Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	varies*
		acute	chronic	Iron	---	WS	
		Ammonia	TVS	TVS	Iron(T)	---	varies*
		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	---	0.44 TVS	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
				Zinc	TVS	varies*	

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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Animas and Florida River Basins

10a. Mainstem of the Florida River from the boundary of the Weminuche Wilderness Area to the inlet of Lemon Reservoir.							
COSJAF10A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 34.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 34.5(3) for details.		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)

10b. Mainstem of the Florida River from the outlet of Lemon Reservoir to the Florida Farmers Canal Headgate (37.295157, -107.791794).							
COSJAF10B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 34.5(5).		Inorganic (mg/L)			Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 34.5(5).		acute	chronic		Iron(T)	---	1000
*Uranium(acute) = See 34.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 34.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Animas and Florida River Basins

11a. Mainstem of the Florida River from the Florida Farmers Canal Headgate (37.295157, -107.791794) to the Southern Ute Indian Reservation boundary (37.214724, -107.746734).							
COSJAF11A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
*Uranium(acute) = See 34.5(3) for details.		acute	chronic	Iron(T)	---	1000	
*Uranium(chronic) = See 34.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
11b. Mainstem of the Florida River from the Southern Ute Indian Reservation boundary (37.214724, -107.746734) to the confluence with the Animas River.							
COSJAF11B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
*Southern Ute Indian Reservation		acute	chronic	Iron(T)	---	1000	
*Uranium(acute) = See 34.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 34.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Animas and Florida River Basins

11c. All tributaries, including wetlands, to the Florida River from the Southern Ute Indian Reservation boundary to the confluence with the Animas River.							
COSJAF11C		Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Water + Fish Standards		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m²)	---	450*TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
*Southern Ute Indian Reservation		Ammonia	TVS	TVS	Lead	TVS	TVS
*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 34.5(5).		Boron	---	0.75	Lead(T)	50	---
*Phosphorus(chronic) = applies only above the facilities listed at 34.5(5).		Chloride	---	250	Manganese	TVS	TVS/WS
*Uranium(acute) = See 34.5(3) for details.		Chlorine	0.019	0.011	Mercury(T)	---	0.01
*Uranium(chronic) = See 34.5(3) for details.		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

12a. All tributaries, including wetlands, to the Animas River from a point immediately above the confluence with Elk Creek to a point immediately below the confluence with Hermosa Creek except for specific listings in Segments 1, 12c and 15. All tributaries, including wetlands, to the Florida River from the source to below the confluence with Mud Spring Creek, except the specific listing in Segment 1.							
COSJAF12A		Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450*TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 34.5(5).		Inorganic (mg/L)			Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 34.5(5).			acute	chronic	Iron(T)	---	1000
*Uranium(acute) = See 34.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 34.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nicel(T)	---	100
		Phosphorus	---	0.44TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

12a. All tributaries, including wetlands, to the Animas River from a point immediately above the confluence with Elk Creek to a point immediately below the confluence with Hermosa Creek except for specific listings in Segments 1, 12c and 15. All tributaries, including wetlands, to the Florida River from the source to below the confluence with Mud Spring Creek, except the specific listing in Segment 1.

COSJAF12A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450*TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 34.5(5).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 34.5(5).</div> <div>*Uranium(acute) = See 34.5(3) for details.</div> <div>*Uranium(chronic) = See 34.5(3) for details.</div>		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Animas and Florida River Basins

12b. Lemon Reservoir.						
COSJAF12B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CLL	CLL	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Nitrogen	---	TVS	Nickel(T)	---
		Phosphorus	---	0.025*TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.
 *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.
 *Uranium(acute) = See 34.5(3) for details.
 *Uranium(chronic) = See 34.5(3) for details.

12c. Hermosa Creek, including tributaries and wetlands, from the source to immediately below the confluence with Long Hollow, except for the East Fork of Hermosa Creek. Mainstem of Bear Creek, including tributaries and wetlands, from its source to the confluence with Mineral Creek. Mainstem of Boulder Creek, including tributaries and wetlands, from its source to the downstream public land boundary. Mainstem of Cascade Creek including tributaries and wetlands from source to Tacoma diversion.

COSJAF12C	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	50
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Phosphorus	---	0.44TVS	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
					Uranium	varies*
					Zinc	TVS

*Uranium(acute) = See 34.5(3) for details.
 *Uranium(chronic) = See 34.5(3) for details.

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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Animas and Florida River Basins

12d. Mainstem of Junction Creek, including tributaries and wetlands, from the source to the U.S. Forest Boundary. Mainstem of Falls Creek, including tributaries and wetlands, from the source to the confluence with the Animas River.

COSJAF12D	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute		chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
				acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	

13a. Mainstem of Junction Creek, including tributaries and wetlands, from the U.S. Forest Boundary to the confluence with Animas River.

COSJAF13A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Water + Fish Standards		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Iron	---	WS
*Uranium(acute) = See 34.5(3) for details.		acute	chronic	Iron(T)	---	1000	
*Uranium(chronic) = See 34.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Animas and Florida River Basins

13b. All tributaries, including wetlands, to the Animas River from a point immediately below the confluence with Hermosa Creek to the Southern Ute Indian Reservation boundary except for the specific listings in Segments 12d, 13a, 13c, 14a and 14b; all tributaries, including wetlands, to the Florida River, from a point immediately below the confluence with Mud Creek to the Southern Ute Indian Reservation boundary, except for specific listings in Segment 13d.

COSJAF13B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Water + Fish Standards		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m ²)	---	450 TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Iron	---	WS
*Uranium(acute) = See 34.5(3) for details.		acute		chronic	Iron(T)	---	1000
*Uranium(chronic) = See 34.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

13c. Mainstem of the unnamed tributary to Coal Gulch which crosses Highway 160 at (37.267877, -107.961598), including wetlands, from the source to the confluence with Coal Gulch.

COSJAF13C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	7.6	
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Fish Ingestion		D.O. (spawning)	---	7.0	Chromium III	---	TVS
Other:		pH	6.5 - 9.0	---	Chromium III(T)	50	---
Discharger Specific Variance(s): Ammonia(ac/ch) = See Section 34.6(4) for details on the variance for Durango West Expiration Date of 12/31/2024 *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 34.5(5). *Phosphorus(chronic) = applies only above the facilities listed at 34.5(5). *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		chlorophyll a (mg/m ²)	---	450 *TVS	Chromium VI	TVS	TVS
		E. Coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
					Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	250	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	TVS	TVS
		Phosphorus	---	0.44 TVS*			
		Sulfate	---	---			
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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Animas and Florida River Basins

13d. Brice Draw, including tributaries and wetlands, from its source to the Southern Ute Indian Reservation Boundary.							
COSJAF13D	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Recreation E				Arsenic(T)	---	100
Qualifiers:		acute	chronic		Beryllium(T)	---	100
Other:		D.O. (mg/L)	---	3.0	Cadmium(T)	---	10
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 34.5(5).</div> <div>*Uranium(acute) = See 34.5(3) for details.</div> <div>*Uranium(chronic) = See 34.5(3) for details.</div>		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m ²)	---	150*TVS	Chromium VI(T)	---	100
		E. Coli (per 100 mL)	---	126	Copper(T)	---	200
		Inorganic (mg/L)			Iron	---	---
		acute	chronic		Lead(T)	---	100
		Ammonia	---	---	Manganese	---	---
		Boron	---	0.75	Mercury(T)	---	---
		Chloride	---	---	Molybdenum(T)	---	150
		Chlorine	---	---	Nickel(T)	---	200
		Cyanide	0.2	---	Selenium(T)	---	20
		Nitrate	100	---	Silver	---	---
		Nitrite	10	---	Uranium	varies*	varies*
		Phosphorus	---	---	Zinc(T)	---	2000
		Sulfate	---	---			
		Sulfide	---	---			
13e. All tributaries to the Animas River, including wetlands, from the Southern Ute Indian Reservation boundary to below the confluence with Basin Creek.							
COSJAF13E	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Water + Fish Standards		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m ²)	---	150TVS	Chromium III(T)	50	---
<div>Temporary Modification(s):</div> <div>Arsenic(chronic) = hybrid</div> <div>Expiration Date of 12/31/2024</div> <div>*Southern Ute Indian Reservation</div> <div>*Uranium(acute) = See 34.5(3) for details.</div> <div>*Uranium(chronic) = See 34.5(3) for details.</div>		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Animas and Florida River Basins

13f. All tributaries, including wetlands, to the Animas River from below the confluence with Basin Creek to the Colorado/New Mexico border, except for Segments 11b and 11c.							
COSJAF13F		Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Water + Fish Standards		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m²)	---	150TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024					Iron	---	WS
		Inorganic (mg/L)			Iron(T)	---	1000
		acute	chronic		Lead	TVS	TVS
*Southern Ute Indian Reservation		Ammonia	TVS	TVS	Lead(T)	50	---
*Uranium(acute) = See 34.5(3) for details.		Boron	---	0.75	Manganese	TVS	TVS/WS
*Uranium(chronic) = See 34.5(3) for details.		Chloride	---	250	Mercury(T)	---	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	10	---	Nickel(T)	---	100
		Nitrite	---	0.05	Selenium	TVS	TVS
		Phosphorus	---	0.14TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS

14a. Mainstem of Lightner Creek, including tributaries and wetlands, from the source to below the confluence with Deep Creek.							
COSJAF14A		Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	1000
*Uranium(acute) = See 34.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 34.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

14a. Mainstem of Lightner Creek, including tributaries and wetlands, from the source to below the confluence with Deep Creek.							
COSJAF14A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Animas and Florida River Basins

14b. Mainstem of Lightner Creek, including wetlands, from below the confluence with Deep Creek to the confluence with the Animas River.						
COSJAF14B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	450*TVS	Chromium III(T)	50
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
Expiration Date of 12/31/2024					Copper	TVS
		Inorganic (mg/L)			Iron	---
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	0.44TVS*	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 34.5(5).
 *Phosphorus(chronic) = applies only above the facilities listed at 34.5(5).
 *Uranium(acute) = See 34.5(3) for details.
 *Uranium(chronic) = See 34.5(3) for details.

15. Mainstem of Purgatory Creek, including wetlands, from the source to Cascade Creek; Goulding Creek, including wetlands, from the source to Elbert Creek; and Nary Draw, including wetlands, from the source to Haviland Lake.						
COSJAF15	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	50
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
					Copper	TVS
		Inorganic (mg/L)			Iron	---
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	0.44TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

*Uranium(acute) = See 34.5(3) for details.
 *Uranium(chronic) = See 34.5(3) for details.

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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Animas and Florida River Basins

16. All lakes and reservoirs tributary to the Animas River and Florida River which are within the Weminuche Wilderness Area. This segment includes Lillie Lake, Castilleja Lake, City Reservoir, Emerald Lake, Ruby Lake, Balsam Lake, Garfield Lake, Vestal Lake, Eldorado Lake, Highland Mary Lakes, Verde Lakes, Lost Lake, and Crater Lake.

COSJAF16	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
OW	Aq Life Cold 1	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	Cadmium(T)	5.0	---
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		pH	6.5 - 9.0	---	TVS	TVS
		chlorophyll a (ug/L)	---	8*TVS	50	---
		E. Coli (per 100 mL)	---	126	Chromium III(T)	---
		Inorganic (mg/L)		Chromium VI	TVS	TVS
				Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Nitrogen	---	TVS	Nickel(T)	---
		Phosphorus	---	0.025*TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
				Zinc	TVS	TVS

17. All lakes tributary to Arrastra Gulch from the source to the confluence with the Animas River. This segment includes Silver Lake.

COSJAF17	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 2	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		D.O. (spawning)	---	7.0	Chromium III	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---
		chlorophyll a (ug/L)	---	8*TVS	Chromium VI	TVS
		E. Coli (per 100 mL)	---	126	Copper	TVS
		Inorganic (mg/L)		Iron(T)	---	1000
				Lead	TVS	TVS
		acute	chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---
		Boron	---	0.75	Molybdenum(T)	---
		Chloride	---	---	Nickel	TVS
		Chlorine	0.019	0.011	Selenium	TVS
		Cyanide	0.005	---	Silver	TVS
		Nitrate	100	---	Uranium	varies*
		Nitrite	---	0.05	Zinc	TVS
		Nitrogen	---	TVS		
		Phosphorus	---	0.025*TVS		
		Sulfate	---	---		
		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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Animas and Florida River Basins

18. All lakes and reservoirs tributary to Cinnamon Creek, Grouse Creek, Picayne Gulch, Minnie Gulch and Eureka Gulch. All lakes and reservoirs tributary to the Animas River from immediately above Maggie Gulch to Elk Park except for those listed under Segments 16, 17, 19, and 20. This segment includes Molas Lake, Bullion King Lake, Columbine Lake, Clear Lake, Island Lake, Ice Lake, Fuller Lake and Crystal Lake.

COSJAF18	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	CL	CL	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---
	Water Supply	D.O. (mg/L)	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	7.0	Cadmium(T)	---
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		pH	6.5 - 9.0	Chromium III	TVS
		chlorophyll a (ug/L)	8*TVS	Chromium III(T)	---
		E. Coli (per 100 mL)	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS
		acute	chronic	Iron	WS
		Ammonia	TVS	Iron(T)	1000
		Boron	0.75	Lead	TVS
		Chloride	250	Lead(T)	---
		Chlorine	0.019	Manganese	TVS
		Cyanide	0.005	Mercury(T)	0.01
		Nitrate	10	Molybdenum(T)	150
		Nitrite	0.05	Nickel	TVS
		Nitrogen	---	Nickel(T)	100
		Phosphorus	0.025*TVS	Selenium	TVS
		Sulfate	WS	Silver	TVS(tr)
		Sulfide	0.002	Uranium	varies*
				Zinc	TVS

19. All lakes and reservoirs tributary to Cement Creek from the source to the confluence with the Animas River.

COSJAF19	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 2	CL	CL	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	100
Qualifiers:		D.O. (mg/L)	6.0	Cadmium	TVS
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		D.O. (spawning)	7.0	Chromium III	TVS
		pH	6.5 - 9.0	Chromium III(T)	100
		chlorophyll a (ug/L)	8*TVS	Chromium VI	TVS
		E. Coli (per 100 mL)	126	Copper	TVS
		Inorganic (mg/L)		Iron(T)	1000
		acute	chronic	Lead	TVS
		Ammonia	TVS	Manganese	TVS
		Boron	0.75	Mercury(T)	0.01
		Chloride	---	Molybdenum(T)	150
		Chlorine	0.019	Nickel	TVS
		Cyanide	0.005	Selenium	TVS
		Nitrate	100	Silver	TVS(tr)
		Nitrite	0.05	Uranium	varies*
		Nitrogen	---	Zinc	TVS
		Phosphorus	0.025*TVS		
		Sulfate	---		
		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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Animas and Florida River Basins

20. All lakes and reservoirs on the east side of Mineral Creek from the source to a point immediately above the confluence with South Mineral Creek. All lakes and reservoirs tributary to the Middle Fork of Mineral Creek from the source to the confluence with Mineral Creek except for the specific listings in Segment 18.

COSJAF20	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 2	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
<p>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Uranium(acute) = See 34.5(3) for details.</p> <p>*Uranium(chronic) = See 34.5(3) for details.</p>		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (ug/L)	---	8*TVS	Chromium VI	TVS	TVS
		E. Coli (per 100 mL)	---	126	Copper	TVS	TVS
		Inorganic (mg/L)			Iron(T)	---	1000
			acute	chronic	Lead	TVS	TVS
		Ammonia	TVS	TVS	Manganese	TVS	TVS
		Boron	---	0.75	Mercury(T)	---	0.01
		Chloride	---	---	Molybdenum(T)	---	150
		Chlorine	0.019	0.011	Nickel	TVS	TVS
		Cyanide	0.005	---	Selenium	TVS	TVS
		Nitrate	100	---	Silver	TVS	TVS(tr)
		Nitrite	---	0.05	Uranium	varies*	varies*
		Nitrogen	---	TVS	Zinc	TVS	TVS
		Phosphorus	---	0.025*TVS			
		Sulfate	---	---			
		Sulfide	---	0.002			

21. All lakes and reservoirs tributary to the Animas River from a point immediately above the confluence with Elk Creek to a point immediately below the confluence with Hermosa Creek except for the specific listing in Segment 22. All lakes and reservoirs tributary to the Florida River from the source to the outlet of Lemon Reservoir, except the specific listings in Segments 12b and 16. This segment includes Little Molas Lake, Andrews Lake, Potato Lake, Scout Lake, Boyce Lake, Columbine Lake, Haviland Lake, Henderson Lake, Ruby Lake, Pear Lake, Webb Lake, Shalona Lake, Stratton Lake, and Wallace Lake.

COSJAF21	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
<p>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Uranium(acute) = See 34.5(3) for details.</p> <p>*Uranium(chronic) = See 34.5(3) for details.</p>		chlorophyll a (ug/L)	---	8*TVS	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
		Nitrogen	---	TVS	Nickel(T)	---	100
		Phosphorus	---	0.025*TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Animas and Florida River Basins

22. Electra Lake. Lake Nighthorse.						
COSJAF22	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CLL	CLL	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s):		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
Expiration Date of 12/31/2024					Copper	TVS
		Inorganic (mg/L)			Iron	---
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Nitrogen	---	TVS	Selenium	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS
		Sulfate	---	WS	Uranium	varies*
		Sulfide	---	0.002	Zinc	TVS

23. All lakes and reservoirs tributary to the Animas River from a point immediately below the confluence with Hermosa Creek to the Southern Ute Indian Reservation boundary except for the specific listings in Segments 13a and 14; all lakes and reservoirs tributary to the Florida River, from the outlet of Lemon Reservoir to the Southern Ute Indian Reservation boundary. This segment includes Chapman Lake and City Res No 1.

23. All lakes and reservoirs tributary to the Animas River from a point immediately below the confluence with Hermosa Creek to the Southern Ute Indian Reservation boundary except for the specific listings in Segments 13a and 14; all lakes and reservoirs tributary to the Florida River, from the outlet of Lemon Reservoir to the Southern Ute Indian Reservation boundary. This segment includes Chapman Lake and City Res No 1.						
COSJAF23	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CL	CL	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
	DUWS*	D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---
Water + Fish Standards		chlorophyll a (ug/L)	---	8*DUWS	Chromium III(T)	50
Other:		chlorophyll a (ug/L)	---	TVS	Chromium VI	TVS
		E. Coli (per 100 mL)	---	126	Copper	TVS
		Inorganic (mg/L)			Iron	---
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Nitrogen	---	TVS	Selenium	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS
		Sulfate	---	WS	Uranium	varies*
		Sulfide	---	0.002	Zinc	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Animas and Florida River Basins

24. All lakes and reservoirs tributary to the Animas River, from the Southern Ute Indian Reservation boundary to the Colorado/New Mexico border. This segment includes Pastorius Reservoir.							
COSJAF24	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Water + Fish Standards		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---
Other: *Southern Ute Indian Reservation *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS

*Southern Ute Indian Reservation
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.
*Uranium(acute) = See 34.5(3) for details.
*Uranium(chronic) = See 34.5(3) for details.

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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

La Plata River, Mancos River, McElmo Creek and San Juan River in Montezuma County and Dolores County

1. Mainstem of the La Plata River, including all wetlands and tributaries from the source to the Hay Gulch diversion south of Hesperus.									
COSJLP01		Classifications		Physical and Biological			Metals (ug/L)		
Designation	Agriculture			DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1			Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E			acute	chronic		Arsenic(T)	---	0.02
	Water Supply			D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:				D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:				pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):				chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid				E. Coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024							Copper	TVS	TVS
				Inorganic (mg/L)			Iron	---	WS
							Iron(T)	---	1000
				Ammonia	TVS	TVS	Lead	TVS	TVS
				Boron	---	0.75	Lead(T)	50	---
				Chloride	---	250	Manganese	TVS	TVS/WS
				Chlorine	0.019	0.011	Mercury(T)	---	0.01
				Cyanide	0.005	---	Molybdenum(T)	---	150
				Nitrate	10	---	Nickel	TVS	TVS
				Nitrite	---	0.05	Nickel(T)	---	100
				Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
				Sulfate	---	WS	Silver	TVS	TVS(tr)
				Sulfide	---	0.002	Uranium	varies*	varies*
							Zinc	TVS	TVS(sc)

2a. Mainstem of the La Plata River from the Hay Gulch diversion south of Hesperus to the boundary of Southern Ute Indian Reservation.									
COSJLP02A		Classifications		Physical and Biological			Metals (ug/L)		
Designation	Agriculture			DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1			Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	5/1 - 10/31		acute	chronic		Arsenic(T)	---	0.02
	Recreation N	11/1 - 4/30		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
	Water Supply			D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:				pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:				chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
*Uranium(acute) = See 34.5(3) for details.				E. Coli (per 100 mL)	5/1 - 10/31	---	126	Chromium VI	TVS
*Uranium(chronic) = See 34.5(3) for details.				E. Coli (per 100 mL)	11/1 - 4/30	---	630	Copper	TVS
				Inorganic (mg/L)			Iron	---	WS
							Iron(T)	---	1000
				Ammonia	TVS	TVS	Lead	TVS	TVS
				Boron	---	0.75	Lead(T)	50	---
				Chloride	---	250	Manganese	TVS	TVS/WS
				Chlorine	0.019	0.011	Mercury(T)	---	0.01
				Cyanide	0.005	---	Molybdenum(T)	---	150
				Nitrate	10	---	Nickel	TVS	TVS
				Nitrite	---	0.05	Nickel(T)	---	100
				Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
				Sulfate	---	WS	Silver	TVS	TVS(tr)
				Sulfide	---	0.002	Uranium	varies*	varies*
							Zinc	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

La Plata River, Mancos River, McElmo Creek and San Juan River in Montezuma County and Dolores County

2b. Mainstem of the La Plata River from the boundary of the Southern Ute Indian Reservation to above the confluence with Cherry Creek.						
COSJLP02B	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1	WS-II	WS-II	Arsenic	340	---
	Recreation E 5/1 - 10/31	acute	chronic	Arsenic(T)	---	0.02
	Recreation P 11/1 - 4/30	---	5.0	Cadmium	TVS	TVS
	Water Supply	pH	6.5 - 9.0	Cadmium(T)	5.0	---
Qualifiers:		chlorophyll a (mg/m ²)	---	Chromium III	---	TVS
Other:		E. Coli (per 100 mL) 5/1 - 10/31	---	Chromium III(T)	50	---
Temporary Modification(s):		E. Coli (per 100 mL) 11/1 - 4/30	---	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid				Copper	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)		Iron	---	WS
		acute	chronic	Iron(T)	---	1000
*Southern Ute Indian Reservation		Ammonia	TVS	Lead	TVS	TVS
*Uranium(acute) = See 34.5(3) for details.		Boron	---	Lead(T)	50	---
*Uranium(chronic) = See 34.5(3) for details.		Chloride	---	Manganese	TVS	TVS/WS
		Chlorine	0.019	Mercury(T)	---	0.01
		Cyanide	0.005	Molybdenum(T)	---	150
		Nitrate	10	Nickel	TVS	TVS
		Nitrite	---	Nickel(T)	---	100
		Phosphorus	---	Selenium	TVS	TVS
		Sulfate	---	Silver	TVS	TVS
		Sulfide	---	Uranium	varies*	varies*
				Zinc	TVS	TVS

2c. Mainstem of the La Plata River from the confluence with Cherry Creek to above the confluence with Long Hollow.						
COSJLP02C	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m ²)	---	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)		Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS	TVS
		Ammonia	TVS	Iron	---	WS
*Southern Ute Indian Reservation		Boron	---	Iron(T)	---	1000
*Uranium(acute) = See 34.5(3) for details.		Chloride	---	Lead	TVS	TVS
*Uranium(chronic) = See 34.5(3) for details.		Chlorine	0.019	Lead(T)	50	---
		Cyanide	0.005	Manganese	TVS	TVS/WS
		Nitrate	10	Mercury(T)	---	0.01
		Nitrite	---	Molybdenum(T)	---	150
		Phosphorus	---	Nickel	TVS	TVS
		Sulfate	---	Nickel(T)	---	100
		Sulfide	---	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

La Plata River, Mancos River, McElmo Creek and San Juan River in Montezuma County and Dolores County

2d. Mainstem of the La Plata River from Long Hollow to the Colorado/New Mexico border.							
COSJLP02D	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic		Copper	TVS	TVS
*Southern Ute Indian Reservation		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(acute) = See 34.5(3) for details.		Boron	---	0.75	Iron(T)	---	1000
*Uranium(chronic) = See 34.5(3) for details.		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)	---	150
		Phosphorus	---	0.17 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
3a. All tributaries to the La Plata River, including all wetlands, from the Hay Gulch diversions south of Hesperus to the Southern Ute Indian Reservation boundary, except for specific listing in Segment 3c, 3d and 3e.							
COSJLP03A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation N	acute	chronic		Arsenic(T)	---	100
		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
Other:		chlorophyll a (mg/m ²)	---	150 ---	Chromium III(T)	---	100
*Uranium(acute) = See 34.5(3) for details.		E. Coli (per 100 mL)	---	630	Chromium VI	TVS	TVS
*Uranium(chronic) = See 34.5(3) for details.		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 TVS	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

3a. All tributaries to the La Plata River, including all wetlands, from the Hay Gulch diversions south of Hesperus to the Southern Ute Indian Reservation boundary, except for specific listing in Segment 3c, 3d and 3e.

COSJLP03A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation N	acute		chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m²)	---	150---	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 TVS	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

La Plata River, Mancos River, McElmo Creek and San Juan River in Montezuma County and Dolores County

3b. All tributaries to the La Plata River, including all wetlands, from the boundary of the Southern Ute Indian Reservation to the Colorado/New Mexico border.						
COSJLP03B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340
	Recreation N	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Water + Fish Standards		chlorophyll a (mg/m²)	---	150 ---	Chromium III	---
		E. Coli (per 100 mL)	---	630	Chromium III(T)	50
Other:		Inorganic (mg/L)		Chromium VI	TVS	TVS
		acute	chronic	Copper	TVS	TVS
*Southern Ute Indian Reservation *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		Ammonia	TVS	TVS	Iron	---
		Boron	---	0.75	Iron(T)	---
		Chloride	---	250	Lead	TVS
		Chlorine	0.019	0.011	Lead(T)	50
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	---	0.05	Molybdenum(T)	---
		Phosphorus	---	0.17 TVS	Nickel	TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	TVS
						TVS
						TVS

3c. Cherry Creek, including all tributaries and wetlands, from the source to the boundary of the Southern Ute Indian Reservation boundary.						
COSJLP03C	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50
*Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Phosphorus	---	0.14 TVS	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
					Uranium	varies*
					Zinc	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

La Plata River, Mancos River, McElmo Creek and San Juan River in Montezuma County and Dolores County

3d. East Cherry Creek, including wetlands, from the source to the confluence with Cherry Creek.						
COSJLP03D	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150TVS	Chromium III(T)	50
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)		Copper	TVS	TVS
*Uranium(acute) = See 34.5(3) for details.		acute	chronic	Iron	---	WS
*Uranium(chronic) = See 34.5(3) for details.		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Phosphorus	---	0.14TVS	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
					Uranium	varies*
					Zinc	TVS
						TVS(sc)
3e. East Alkali Gulch, including wetlands, from the source to the Southern Ute Indian Boundary. Hay Gulch, including tributaries and wetlands, from the source to the Southern Ute Indian Boundary.						
COSJLP03E	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340
	Recreation N	acute	chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Other:		chlorophyll a (mg/m²)	---	150---	Chromium III	TVS
*Uranium(acute) = See 34.5(3) for details.		E. Coli (per 100 mL)	---	630	Chromium III(T)	---
*Uranium(chronic) = See 34.5(3) for details.		Inorganic (mg/L)		Chromium VI	TVS	TVS
		acute	chronic	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---
		Boron	---	0.75	Iron(T)	---
		Chloride	---	250	Lead	TVS
		Chlorine	0.019	0.011	Lead(T)	50
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	---	0.05	Molybdenum(T)	---
		Phosphorus	---	0.14TVS	Nickel	TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
					Silver	TVS
					Uranium	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

La Plata River, Mancos River, McElmo Creek and San Juan River in Montezuma County and Dolores County

4a. Mainstem of the Mancos River, including all wetlands and tributaries, from the source of the East, West and Middle Forks to the San Juan National Forest Boundary.						
COSJLP04A	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	CS-I	CS-I	Arsenic	340	---
	Recreation E 5/1 - 10/31	acute	chronic	Arsenic(T)	---	0.02
	Recreation N 11/1 - 4/30	---	6.0	Cadmium	TVS	TVS
	Water Supply	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH 6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m ²)	---	Chromium III(T)	50	---
Temporary Modification(s):		E. Coli (per 100 mL) 5/1 - 10/31	---	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL) 11/1 - 4/30	---	Copper	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)		Iron	---	WS
		acute	chronic	Iron(T)	---	1000
*Uranium(acute) = See 34.5(3) for details.		Ammonia	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 34.5(3) for details.		Boron	---	Lead(T)	50	---
		Chloride	---	Manganese	TVS	TVS/WS
		Chlorine	0.019	Mercury(T)	---	0.01
		Cyanide	0.005	Molybdenum(T)	---	150
		Nitrate	10	Nickel	TVS	TVS
		Nitrite	---	Nickel(T)	---	100
		Phosphorus	---	Selenium	TVS	TVS
		Sulfate	---	Silver	TVS	TVS(tr)
		Sulfide	---	Uranium	varies*	varies*
				Zinc	TVS	TVS

4b. Mancos Reservoir (Jackson Gulch Reservoir).						
COSJLP04B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	CLL	CLL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	---	6.0	Cadmium	TVS	TVS
	DUWS*	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH 6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (ug/L)	---	Chromium III(T)	50	---
*chlorophyll-a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		chlorophyll a (ug/L)	---	Chromium VI	TVS	TVS
*Classification: DUWS applies to Jackson Gulch Reservoir only.		E. Coli (per 100 mL)	---	Copper	TVS	TVS
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		Inorganic (mg/L)		Iron	---	WS
*Uranium(acute) = See 34.5(3) for details.		acute	chronic	Iron(T)	---	1000
*Uranium(chronic) = See 34.5(3) for details.		Ammonia	TVS	Lead	TVS	TVS
		Boron	---	Lead(T)	50	---
		Chloride	---	Manganese	TVS	TVS/WS
		Chlorine	0.019	Mercury(T)	---	0.01
		Cyanide	0.005	Molybdenum(T)	---	150
		Nitrate	10	Nickel	TVS	TVS
		Nitrite	---	Nickel(T)	---	100
		Nitrogen	---	Selenium	TVS	TVS
		Phosphorus	---	Silver	TVS	TVS(tr)
		Sulfate	---	Uranium	varies*	varies*
		Sulfide	---	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

La Plata River, Mancos River, McElmo Creek and San Juan River in Montezuma County and Dolores County

4c. Mainstem of the Mancos River, including tributaries and wetlands, from below the San Juan National Forest Boundary to Hwy 160. Chicken Creek, including tributaries and wetlands, from its source to the confluence with the Mancos River.										
COSJLP04C		Classifications		Physical and Biological			Metals (ug/L)			
Designation	Agriculture			DM	MWAT	acute		chronic		
Reviewable	Aq Life Cold 1			Temperature °C	CS-II	CS-II	Arsenic	340	---	
	Recreation E 5/1 - 10/31			acute	chronic	Arsenic(T)	---	0.02		
	Recreation N 11/1 - 4/30			D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
	Water Supply			D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Qualifiers:				pH	6.5 - 9.0	---	Chromium III	---	TVS	
Other: *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.				chlorophyll a (mg/m ²)		---	450 TVS	Chromium III(T)	50	---
				E. Coli (per 100 mL) 5/1 - 10/31		---	126	Chromium VI	TVS	TVS
				E. Coli (per 100 mL) 11/1 - 4/30		---	630	Copper	TVS	TVS
				Inorganic (mg/L)			Iron	---	WS	
				acute		chronic	Iron(T)	---	1000	
				Ammonia		TVS	TVS	Lead	TVS	TVS
				Boron		---	0.75	Lead(T)	50	---
				Chloride		---	250	Manganese	TVS	TVS/WS
				Chlorine		0.019	0.011	Mercury(T)	---	0.01
				Cyanide		0.005	---	Molybdenum(T)	---	150
				Nitrate		10	---	Nickel	TVS	TVS
				Nitrite		---	0.05	Nickel(T)	---	100
				Phosphorus		---	0.44 TVS	Selenium	TVS	TVS
				Sulfate		---	WS	Silver	TVS	TVS(tr)
				Sulfide		---	0.002	Uranium	varies*	varies*
								Zinc	TVS	TVS
5. Mainstem of the Mancos River from Hwy 160 to the boundary of the Ute Mountain Indian Reservation and mainstem of Weber Canyon, including wetlands, from source to boundary of the Ute Mountain Ute Indian Reservation.										
COSJLP05		Classifications		Physical and Biological			Metals (ug/L)			
Designation	Agriculture			DM	MWAT	acute		chronic		
Reviewable	Aq Life Warm 1			Temperature °C	WS-II	WS-II	Arsenic	340	---	
	Recreation E 5/1 - 10/31			acute	chronic	Arsenic(T)	---	0.02		
	Recreation N 11/1 - 4/30			D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
	Water Supply			pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
Qualifiers:				chlorophyll a (mg/m ²)		---	450 *TVS	Chromium III	---	TVS
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 34.5(5). *Phosphorus(chronic) = applies only above the facilities listed at 34.5(5). *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.				E. Coli (per 100 mL) 5/1 - 10/31		---	126	Chromium III(T)	50	---
				E. Coli (per 100 mL) 11/1 - 4/30		---	630	Chromium VI	TVS	TVS
							Copper	TVS	TVS	
				Inorganic (mg/L)			Iron	---	WS	
				acute		chronic	Iron(T)	---	1000	
				Ammonia		TVS	TVS	Lead	TVS	TVS
				Boron		---	0.75	Lead(T)	50	---
				Chloride		---	250	Manganese	TVS	TVS/WS
				Chlorine		0.019	0.011	Mercury(T)	---	0.01
				Cyanide		0.005	---	Molybdenum(T)	---	150
				Nitrate		10	---	Nickel	TVS	TVS
				Nitrite		---	0.05	Nickel(T)	---	100
				Phosphorus		---	0.47 TVS*	Selenium	TVS	TVS
				Sulfate		---	WS	Silver	TVS	TVS
				Sulfide		---	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

La Plata River, Mancos River, McElmo Creek and San Juan River in Montezuma County and Dolores County

6a. All tributaries to the Mancos River, including wetlands, from Hwy 160 to the boundary of the Ute Mountain Indian Reservation, except for specific listings in segment 4c, 5, 6b and 6c. Navajo Wash, including tributaries and wetlands, from the source to the Ute Mountain Indian Reservation Boundary.

COSJLP06A	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Warm 2	WS-II	WS-II	Arsenic	340
	Recreation N 11/1 - 4/30	acute	chronic	Arsenic(T)	---
	Recreation P 5/1 - 10/31	---	5.0	Cadmium	TVS
Qualifiers:		D.O. (mg/L)	---	Cadmium	TVS
Other:		pH	6.5 - 9.0	Chromium III	TVS
		chlorophyll a (mg/m ²)	---	Chromium III(T)	---
		E. Coli (per 100 mL) 5/1 - 10/31	---	Chromium VI	TVS
		E. Coli (per 100 mL) 11/1 - 4/30	---	Copper	TVS
			630	Iron(T)	---
				Lead	TVS
		Inorganic (mg/L)		Manganese	TVS
		acute	chronic	Mercury(T)	---
		Ammonia	TVS	Molybdenum(T)	---
		Boron	---	Nickel	TVS
		Chloride	---	Selenium	TVS
		Chlorine	0.019	Silver	TVS
		Cyanide	0.005	Uranium	varies*
		Nitrate	100	Zinc	TVS
		Nitrite	---		
		Phosphorus	---		
		Sulfate	---		
		Sulfide	---		

6b. East Fork of Mud Creek, including tributaries and wetlands, from the source to the confluence with the West Fork of Mud Creek. East Canyon, including wetlands, from the source to the confluence with Joes Canyon.

COSJLP06B	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Warm 2	WS-II	WS-II	Arsenic	340
	Recreation N 11/1 - 4/30	acute	chronic	Arsenic(T)	---
	Recreation P 5/1 - 10/31	---	5.0	Cadmium	TVS
	Water Supply	pH	6.5 - 9.0	Cadmium(T)	5.0
Qualifiers:		chlorophyll a (mg/m ²)	---	Chromium III	TVS
Other:		E. Coli (per 100 mL) 5/1 - 10/31	---	Chromium III(T)	---
		E. Coli (per 100 mL) 11/1 - 4/30	---	Chromium VI	TVS
			630	Copper	TVS
				Iron	---
		Inorganic (mg/L)		Iron(T)	1000
		acute	chronic	Lead	TVS
		Ammonia	TVS	Lead(T)	50
		Boron	---	Manganese	TVS
		Chloride	---	Mercury(T)	---
		Chlorine	0.019	Molybdenum(T)	150
		Cyanide	0.005	Nickel	TVS
		Nitrate	10	Nickel(T)	---
		Nitrite	---	Selenium	TVS
		Phosphorus	---	Silver	TVS
		Sulfate	---	Uranium	varies*
		Sulfide	---	Zinc	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

La Plata River, Mancos River, McElmo Creek and San Juan River in Montezuma County and Dolores County

6c. All tributaries to the Mancos River, including wetlands, located in Mesa Verde National Park.

COSJLP06C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
OW	Aq Life Warm 1	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m²)	---	150 TVS	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)	---	---
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	100	---	Selenium	TVS	TVS
		Nitrite	---	0.05	Silver	TVS	TVS
		Phosphorus	---	0.17 TVS	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

7a. Mainstem of McElmo Creek from the source to the confluence with Alkali Canyon. Mainstem of Yellow Jacket Creek, including tributaries and wetlands, from the source to the confluence with McElmo Creek.

COSJLP07A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other:		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
<p>Discharger Specific Variance(s): Ammonia(ac/ch) = See Section 34.6(4) for details on the variance for Vista Verde Village Mobile Home Park. Expiration Date of 6/30/2031</p> <p>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 34.5(5).</p> <p>*Phosphorus(chronic) = applies only above the facilities listed at 34.5(5).</p> <p>*Uranium(acute) = See 34.5(3) for details.</p> <p>*Uranium(chronic) = See 34.5(3) for details.</p>		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	---	100
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
			acute	chronic	Iron(T)	---	2200
		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 TVS*	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

Discharger Specific Variance(s):
 Ammonia(ac/ch) = See Section 34.6(4)
 for details on the variance for Vista
 Verde Village Mobile Home Park.
 Expiration Date of 6/30/2031
 *chlorophyll a (mg/m²)(chronic) = applies only above
 the facilities listed at 34.5(5).
 *Phosphorus(chronic) = applies only above the
 facilities listed at 34.5(5).
 *Uranium(acute) = See 34.5(3) for details.
 *Uranium(chronic) = See 34.5(3) for details.

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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

La Plata River, Mancos River, McElmo Creek and San Juan River in Montezuma County and Dolores County

7b. Mainstem of McElmo Creek from the confluence with Alkali Canyon to the Colorado/Utah border, except portion within the Ute Mountain Indian Reservation.								
COSJLP07B	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
Other:		chlorophyll a (mg/m²)	---	TVS	Chromium III	TVS	TVS	
		E. Coli (per 100 mL)	---	126	Chromium III(T)	---	100	
		Inorganic (mg/L)			Chromium VI	TVS	TVS	
		acute	chronic	Copper	TVS	TVS		
		Ammonia	TVS	TVS	Iron	---	WS	
		Boron	---	0.75	Iron(T)	---	2200	
		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)	---	150	
		Phosphorus	---	---	Nickel	TVS	TVS	
		Sulfate	---	WS	Nickel(T)	---	100	
		Sulfide	---	0.002	Selenium	TVS	TVS	
					Silver	TVS	TVS	
					Uranium	varies*	varies*	
					Zinc	TVS	TVS	
8. All tributaries to McElmo Creek, including wetlands, from the source to the Colorado/Utah border, except for the portions within the Ute Mountain Indian Reservation and except for specific listings in Segments 7a and 9.								
COSJLP08	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02-10 ^A		
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
Other:		chlorophyll a (mg/m²)	---	150*TVS	Chromium III	TVS	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)	---	150	
		Phosphorus	---	0.47TVS*	Nickel	TVS	TVS	
		Sulfate	---	WS	Nickel(T)	---	100	
		Sulfide	---	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

La Plata River, Mancos River, McElmo Creek and San Juan River in Montezuma County and Dolores County

9. Unnamed tributary to Ritter Draw (confluence at 37.4059, -108.5325), including wetlands.					
COSJLP09	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-III WS-III	Arsenic	340 ---
	Recreation E	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
		chlorophyll a (mg/m ²)	--- 150 TVS	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	--- 250	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 TVS*	Uranium	varies* varies*
		Sulfate	--- 250	Zinc	TVS TVS
		Sulfide	--- 0.002		

*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 34.5(5).
 *Phosphorus(chronic) = applies only above the facilities listed at 34.5(5).
 *Uranium(acute) = See 34.5(3) for details.
 *Uranium(chronic) = See 34.5(3) for details.

10. All tributaries to the San Juan River in Montezuma Dolores and San Miguel Counties, including all wetlands, except for the specific listings in Segments 2 through 9.					
COSJLP10	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-III WS-III	Arsenic	340 ---
	Recreation E	acute	chronic	Arsenic(T)	--- 7.6
Qualifiers:		D.O. (mg/L)	--- 5.0	Beryllium(T)	--- 100
Other:		pH	6.5 - 9.0 ---	Cadmium	TVS TVS
		chlorophyll a (mg/m ²)	--- 150 TVS	Chromium III	TVS TVS
		E. Coli (per 100 mL)	--- 126	Chromium III(T)	--- 100
		Inorganic (mg/L)		Chromium VI	TVS TVS
		acute	chronic	Copper	TVS TVS
		Ammonia	TVS TVS	Iron(T)	--- 1000
		Boron	--- 0.75	Lead	TVS TVS
		Chloride	--- ---	Manganese	TVS TVS
		Chlorine	0.019 0.011	Mercury(T)	--- 0.01
		Cyanide	0.005 ---	Molybdenum(T)	--- 150
		Nitrate	100 ---	Nickel	TVS TVS
		Nitrite	--- ---	Selenium	TVS TVS
		Phosphorus	--- 0.17 TVS*	Silver	TVS TVS
		Sulfate	--- ---	Uranium	varies* varies*
		Sulfide	--- 0.002	Zinc	TVS TVS

Discharger Specific Variance(s):
 Ammonia(ac/ch) = See Section 34.6(4) for details on the variance for the Town of Dove Creek.
 Expiration Date of 6/30/2025
 *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 34.5(5).
 *Phosphorus(chronic) = applies only above the facilities listed at 34.5(5).
 *Uranium(acute) = See 34.5(3) for details.
 *Uranium(chronic) = See 34.5(3) for details.

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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

La Plata River, Mancos River, McElmo Creek and San Juan River in Montezuma County and Dolores County

11. Narraguinnep, Puett and Totten Reservoirs.					
COSJLP11	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Warm 1	WL	WL	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---
	Water Supply	D.O. (mg/L)	5.0	Cadmium	TVS
Qualifiers:		pH	6.5 - 9.0	Cadmium(T)	5.0
Other:		chlorophyll a (ug/L)	20*TVS	Chromium III	---
<p>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Uranium(acute) = See 34.5(3) for details.</p> <p>*Uranium(chronic) = See 34.5(3) for details.</p>		E. Coli (per 100 mL)	126	Chromium III(T)	50
		Inorganic (mg/L)		Chromium VI	TVS
		acute	chronic	Copper	TVS
		Ammonia	TVS	Iron	---
		Boron	0.75	Iron(T)	1000
		Chloride	250	Lead	TVS
		Chlorine	0.019	Lead(T)	50
		Cyanide	0.005	Manganese	TVS
		Nitrate	10	Mercury(T)	---
		Nitrite	0.5	Molybdenum(T)	---
		Nitrogen	---	Nickel	TVS
		Phosphorus	0.083*TVS	Nickel(T)	---
		Sulfate	WS	Selenium	TVS
		Sulfide	0.002	Silver	TVS
				Uranium	varies*
				Zinc	TVS
12. All lakes and reservoirs tributary to the La Plata River from the source to the Hay Gulch diversion south of Hesperus.					
COSJLP12	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	CL	CL	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---
	Water Supply	D.O. (mg/L)	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	Chromium III	---
<p>Temporary Modification(s):</p> <p>Arsenic(chronic) = hybrid</p> <p>Expiration Date of 12/31/2024</p> <p>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Uranium(acute) = See 34.5(3) for details.</p> <p>*Uranium(chronic) = See 34.5(3) for details.</p>		chlorophyll a (ug/L)	8*TVS	Chromium III(T)	50
		E. Coli (per 100 mL)	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS
		acute	chronic	Iron	---
		Ammonia	TVS	Iron(T)	1000
		Boron	0.75	Lead	TVS
		Chloride	250	Lead(T)	50
		Chlorine	0.019	Manganese	TVS
		Cyanide	0.005	Mercury(T)	---
		Nitrate	10	Molybdenum(T)	---
		Nitrite	0.05	Nickel	TVS
		Nitrogen	---	Nickel(T)	---
		Phosphorus	0.025*TVS	Selenium	TVS
		Sulfate	WS	Silver	TVS
		Sulfide	0.002	Uranium	varies*
				Zinc	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

La Plata River, Mancos River, McElmo Creek and San Juan River in Montezuma County and Dolores County

13. All lakes and reservoirs tributary to the La Plata River from the Hay Gulch diversions south of Hesperus to the Southern Ute Indian Reservation boundary.						
COSJLP13	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
UP	Aq Life Warm 2	WL	WL	Temperature °C	340	---
	Recreation P	acute	chronic			
Qualifiers:		D.O. (mg/L)	5.0	Arsenic	TVS	TVS
Other:		pH	6.5 - 9.0	Arsenic(T)	---	100
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		chlorophyll a (ug/L)	20*TVS	Cadmium	TVS	TVS
		E. Coli (per 100 mL)	205	Chromium III	TVS	TVS
		Inorganic (mg/L)		Chromium III(T)	---	100
		acute	chronic	Chromium VI	TVS	TVS
		Ammonia	TVS	Copper	TVS	TVS
		Boron	0.75	Iron(T)	---	1000
		Chloride	---	Lead	TVS	TVS
		Chlorine	0.011	Manganese	TVS	TVS
		Cyanide	---	Mercury(T)	---	0.01
		Nitrate	100	Molybdenum(T)	---	150
		Nitrite	0.05	Nickel	TVS	TVS
		Nitrogen	TVS	Selenium	TVS	TVS
		Phosphorus	0.083*TVS	Silver	TVS	TVS
		Sulfate	---	Uranium	varies*	varies*
		Sulfide	0.002	Zinc	TVS	TVS
14. All lakes and reservoirs tributary to the La Plata River from the boundary of the Southern Ute Indian Reservation to the Colorado/New Mexico border. The segment includes Mormon Reservoir (a.k.a. Red Mesa Ward Reservoir) and Long Hollow Reservoir (a.k.a. Bobby K. Taylor Reservoir).						
COSJLP14	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
UP	Aq Life Warm 2	WL	WL	Temperature °C	340	---
	Recreation E	acute	chronic			
Qualifiers:		D.O. (mg/L)	5.0	Arsenic	---	7.6
Fish Ingestion		pH	6.5 - 9.0	Arsenic(T)	TVS	TVS
Other:		chlorophyll a (ug/L)	20*TVS	Cadmium	TVS	TVS
*Southern Ute Indian Reservation *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		E. Coli (per 100 mL)	126	Chromium III	TVS	TVS
		Inorganic (mg/L)		Chromium III(T)	---	100
		acute	chronic	Chromium VI	TVS	TVS
		Ammonia	TVS	Copper	TVS	TVS
		Boron	0.75	Iron(T)	---	1000
		Chloride	---	Lead	TVS	TVS
		Chlorine	0.011	Manganese	TVS	TVS
		Cyanide	---	Mercury(T)	---	0.01
		Nitrate	100	Molybdenum(T)	---	150
		Nitrite	0.05	Nickel	TVS	TVS
		Nitrogen	TVS	Selenium	TVS	TVS
		Phosphorus	0.083*TVS	Silver	TVS	TVS
		Sulfate	---	Uranium	varies*	varies*
		Sulfide	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

La Plata River, Mancos River, McElmo Creek and San Juan River in Montezuma County and Dolores County

15. All lakes and reservoirs tributary to the Mancos River from the source of the East, West and Middle Forks to Hwy 160, except for the specific listing in Segment 4b. This segment includes Weber Reservoir, Bauer Lake, Little Bauer Reservoir, Hackley Reservoir, Joe Moore Reservoir, and Coppinger Reservoir.

COSJLP15	Classifications		Physical and Biological			Metals (ug/L)			
Designation	Agriculture			DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1		Temperature °C	CL	CL	Arsenic	340	---	
	Recreation E	5/1 - 10/31		acute	chronic	Arsenic(T)	---	0.02	
	Recreation N	11/1 - 4/30	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
	Water Supply		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Qualifiers:			pH	6.5 - 9.0	---	Chromium III	---	TVS	
Other:			chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---	
<div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 34.5(3) for details.</div> <div>*Uranium(chronic) = See 34.5(3) for details.</div>			E. Coli (per 100 mL)	5/1 - 10/31	---	126	Chromium VI	TVS	TVS
			E. Coli (per 100 mL)	11/1 - 4/30	---	630	Copper	TVS	TVS
			Inorganic (mg/L)				Iron	---	WS
				acute	chronic	Iron(T)	---	1000	
			Ammonia	TVS	TVS	Lead	TVS	TVS	
			Boron	---	0.75	Lead(T)	50	---	
			Chloride	---	250	Manganese	TVS	TVS/WS	
			Chlorine	0.019	0.011	Mercury(T)	---	0.01	
			Cyanide	0.005	---	Molybdenum(T)	---	150	
			Nitrate	10	---	Nickel	TVS	TVS	
			Nitrite	---	0.05	Nickel(T)	---	100	
			Nitrogen	---	TVS	Selenium	TVS	TVS	
			Phosphorus	---	0.025*TVS	Silver	TVS	TVS(tr)	
			Sulfate	---	WS	Uranium	varies*	varies*	
			Sulfide	---	0.002	Zinc	TVS	TVS	

16. All lakes and reservoirs tributary to the Mancos River, from Hwy 160 to the boundary of the Ute Mountain Indian Reservation.

COSJLP16	Classifications		Physical and Biological			Metals (ug/L)				
Designation	Agriculture			DM	MWAT					
	Reviewable	Aq Life Warm 2		WL	WL					
		Recreation N	11/1 - 4/30		acute	chronic				
		Recreation P	5/1 - 10/31							
Qualifiers:			pH	6.5 - 9.0	---	Chromium III	TVS	TVS		
Other:			chlorophyll a (ug/L)	---	20*TVS	Chromium III(T)	---	100		
<div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 34.5(3) for details.</div> <div>*Uranium(chronic) = See 34.5(3) for details.</div>			E. Coli (per 100 mL)	5/1 - 10/31	---	205	Chromium VI	TVS	TVS	
			E. Coli (per 100 mL)	11/1 - 4/30	---	630	Copper	TVS	TVS	
						Iron(T)	---	1000		
			Inorganic (mg/L)			Lead	TVS	TVS		
						acute	chronic	Manganese	TVS	TVS
			Ammonia			TVS	TVS	Mercury(T)	---	0.01
			Boron			---	0.75	Molybdenum(T)	---	150
			Chloride			---	---	Nickel	TVS	TVS
			Chlorine			0.019	0.011	Selenium	TVS	TVS
			Cyanide			0.005	---	Silver	TVS	TVS
			Nitrate			100	---	Uranium	varies*	varies*
			Nitrite			---	0.05	Zinc	TVS	TVS
			Nitrogen			---	-	TVS		
			Phosphorus			---	0.083*TVS			
			Sulfate			---	---			
			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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

La Plata River, Mancos River, McElmo Creek and San Juan River in Montezuma County and Dolores County

17. All lakes and reservoirs tributary to the San Juan River in Montezuma Dolores and San Miguel Counties except for the specific listings in Segments 4b, 11 through 16, 18 and 19.

COSJLP17	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Warm 2 Recreation E	WL	WL	Arsenic	340
Qualifiers:		acute	chronic	Arsenic(T)	---
Other:		D.O. (mg/L)	5.0	Beryllium(T)	100
		pH	6.5 - 9.0	Cadmium	TVS
		chlorophyll a (ug/L)	20*TVS	Chromium III	TVS
		E. Coli (per 100 mL)	126	Chromium III(T)	100
		Inorganic (mg/L)		Chromium VI	TVS
		acute	chronic	Copper	TVS
		Ammonia	TVS	Iron(T)	1000
		Boron	0.75	Lead	TVS
		Chloride	---	Manganese	TVS
		Chlorine	0.019	Mercury(T)	0.01
		Cyanide	0.005	Molybdenum(T)	150
		Nitrate	100	Nickel	TVS
		Nitrite	---	Selenium	TVS
		Nitrogen	TVS	Silver	TVS
		Phosphorus	0.083*TVS*	Uranium	varies*
		Sulfate	---	Zinc	TVS
		Sulfide	0.002		

18. All lakes and reservoirs tributary to Yellow Jacket Creek, from the source to the confluence with McElmo Creek.

COSJLP18	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Warm 1 Recreation E	WL	WL	Arsenic	340
Qualifiers:		acute	chronic	Arsenic(T)	---
Other:		D.O. (mg/L)	5.0	Cadmium	TVS
		pH	6.5 - 9.0	Chromium III	TVS
		chlorophyll a (ug/L)	20*TVS	Chromium III(T)	100
		E. Coli (per 100 mL)	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS
		acute	chronic	Iron(T)	2200
		Ammonia	TVS	Lead	TVS
		Boron	0.75	Manganese	TVS
		Chloride	---	Mercury(T)	0.01
		Chlorine	0.019	Molybdenum(T)	150
		Cyanide	0.005	Nickel	TVS
		Nitrate	100	Selenium	TVS
		Nitrite	0.05	Silver	TVS
		Nitrogen	TVS	Uranium	varies*
		Phosphorus	0.083*TVS	Zinc	TVS
		Sulfate	---		
		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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

La Plata River, Mancos River, McElmo Creek and San Juan River in Montezuma County and Dolores County

19. All lakes and reservoirs tributary to McElmo Creek from the source to the Colorado/Utah border, except for those within the Ute Mountain Indian Reservation and except for the specific listings in Segment 11. This segment includes Denny Lake.							
COSJLP19	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT	acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Fish Ingestion		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
Other:		chlorophyll a (ug/L)	---	20*TVS	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
		Nitrogen	---	TVS	Uranium	varies*	varies*
		Phosphorus	---	0.083*TVS	Zinc	TVS	TVS
		Sulfate	---	---			
		Sulfide	---	0.002			

*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.

*Uranium(acute) = See 34.5(3) for details.

*Uranium(chronic) = See 34.5(3) for details.

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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Dolores River Basin

1. All tributaries and wetlands to the Dolores River and West Dolores River, which are within the Lizard Head Wilderness area. Mainstems of Coal Creek and Slate Creek, including tributaries and wetlands, from the boundary of the Lizard Head Wilderness Area to their confluences with the Dolores River.

COSJDO01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS(sc)

2. Mainstem of the Dolores River from a point immediately below the confluence with Snow Spur Creek to a point immediately above the confluence with Horse Creek.

COSJDO02	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 34.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 34.5(3) for details.		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Dolores River Basin

3. Mainstem of the Dolores River from a point immediately above the confluence with Horse Creek to a point immediately above the confluence with Bear Creek.							
COSJDO03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/255
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

4a. Mainstem of the Dolores River from a point immediately above the confluence with Bear Creek to the bridge at Bradfield Ranch (Forest Route 505, near Montezuma/Dolores County Line).							
COSJDO04A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 *TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Dolores River Basin

4b. McPhee Reservoir and Summit Reservoir.								
COSJDO04B		Classifications		Physical and Biological		Metals (ug/L)		
Designation	Agriculture			DM	MWAT			
Reviewable	Aq Life Cold 1	Temperature °C	1/1 - 3/31	CLL	CLL	Arsenic	acute	chronic
	Recreation E	Temperature °C	4/1 - 12/31	CLL*	varies* B	Arsenic(T)	340	---
	Water Supply						---	0.02
	DUWS*					Cadmium	TVS	TVS
Qualifiers:				acute	chronic	Cadmium(T)	5.0	---
Other:		D.O. (mg/L)		---	6.0	Chromium III	---	TVS
Temporary Modification(s):		D.O. (spawning)		---	7.0	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		pH	6.5 - 9.0	---	---	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		chlorophyll a (ug/L)		---	8*DUWS	Copper	TVS	TVS
*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 34.5(5), applies only to lakes and reservoirs larger than 25 acres surface area.*Classification: DUWS applies to McPhee Reservoir.		chlorophyll a (ug/L)		---	TVS	Iron	---	WS
*Classification: DUWSNitrogen(chronic) = applies to McPhee Reservoir only, above the facilities listed at 34.5(5) and in DUWS waterbodies.		E. Coli (per 100 mL)		---	126	Iron(T)	---	1000
*Phosphorus(chronic) = applies only above the facilities listed at 34.5(5), applies only to lakes and reservoirs larger than 25 acres surface area.) and in DUWS waterbodies.		Inorganic (mg/L)				Lead	TVS	TVS
*Uranium(acute) = See 34.5(3) for details.				acute	chronic	Lead(T)	50	---
*Uranium(chronic) = See 34.5(3) for details.		Ammonia		TVS	TVS	Manganese	TVS	TVS/WS
*Temperature(4/1 - 12/31) =		Boron		---	0.75	Mercury(T)	---	0.01
Summit Reservoir MWAT = 21.0		Chloride		---	250	Molybdenum(T)	---	150
McPhee Reservoir MWAT = 21.1		Chlorine	0.019	0.011		Nickel	TVS	TVS
		Cyanide	0.005	---		Nickel(T)	---	100
		Nitrate	10	---		Selenium	TVS	TVS
		Nitrite	---	0.05		Silver	TVS	TVS(tr)
		Nitrogen	---	-	TVS*	Uranium	varies*	varies*
		Phosphorus	---	0.025	TVS*	Zinc	TVS	TVS
		Sulfate	---	WS				
		Sulfide	---	0.002				
5a. All tributaries to the Dolores River and West Dolores River, including all wetlands, from the source to a point immediately below the confluence with the West Dolores River except for specific listings in Segments 1 and 5b through 10.								
COSJDO05A		Classifications		Physical and Biological		Metals (ug/L)		
Designation	Agriculture			DM	MWAT			
Reviewable	Aq Life Cold 1	Temperature °C		CS-I	CS-I	Arsenic	acute	chronic
	Recreation E			acute	chronic	Arsenic(T)	340	---
	Water Supply						---	0.02
Qualifiers:		D.O. (mg/L)		---	6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)		---	7.0	Cadmium(T)	5.0	---
Temporary Modification(s):		pH	6.5 - 9.0	---	---	Chromium III	---	TVS
Arsenic(chronic) = hybrid		chlorophyll a (mg/m²)		---	450TVS	Chromium III(T)	50	---
Expiration Date of 12/31/2024		E. Coli (per 100 mL)		---	126	Chromium VI	TVS	TVS
*Uranium(acute) = See 34.5(3) for details.						Copper	TVS	TVS
*Uranium(chronic) = See 34.5(3) for details.		Inorganic (mg/L)				Iron	---	WS
*Zinc(chronic) = Chronic zinc sculpin standard applies to Silver Creek and Fish Creek.				acute	chronic	Iron(T)	---	1000
		Ammonia		TVS	TVS	Lead	TVS	TVS
		Boron		---	0.75	Lead(T)	50	---
		Chloride		---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011		Mercury(T)	---	0.01
		Cyanide	0.005	---		Molybdenum(T)	---	150
		Nitrate	10	---		Nickel	TVS	TVS
		Nitrite	---	0.05		Nickel(T)	---	100
		Phosphorus	---	0.44	TVS	Selenium	TVS	TVS
		Sulfate	---	WS		Silver	TVS	TVS(tr)
		Sulfide	---	0.002		Uranium	varies*	varies*
						Zinc	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Dolores River Basin

5b. Mainstem of Rio Lado, including wetlands, from the source to the confluence with the Dolores River. Mainstem of Little Taylor Creek, including wetlands, from the source to the confluence with Taylor Creek. Mainstems of Bear Creek, -Priest Creek, Wildcat Creek and Stoner Creek, including tributaries and wetlands, from their sources to the downstream San Juan National Forest boundary. Mainstem of the Dolores River, including tributaries and wetlands, from the source to a point immediately below the confluence with Snow Spur Creek, except for the listings in Segment 1.

COSJDO05B	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
OW	Aq Life Cold 1	Temperature °C	CS-I CS-I	Arsenic	340 ---
	Recreation E	acute	chronic	Arsenic(T)	--- 0.02
	Water Supply	D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS
Qualifiers:		D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---
Other:	*Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.	pH	6.5 - 9.0 ---	Chromium III	--- TVS
		chlorophyll a (mg/m ²)	--- 450 TVS	Chromium III(T)	50 ---
		E. Coli (per 100 mL)	--- 126	Chromium VI	TVS TVS
		Inorganic (mg/L)		Copper	TVS TVS
				Iron	--- WS
		acute	chronic	Iron(T)	--- 1000
		Ammonia	TVS TVS	Lead	TVS TVS
		Boron	--- 0.75	Lead(T)	50 ---
		Chloride	--- 250	Manganese	TVS TVS/WS
		Chlorine	0.019 0.011	Mercury(T)	--- 0.01
		Cyanide	0.005 ---	Molybdenum(T)	--- 150
		Nitrate	10 ---	Nickel	TVS TVS
		Nitrite	--- 0.05	Nickel(T)	--- 100
		Phosphorus	--- 0.14 TVS	Selenium	TVS TVS
		Sulfate	--- WS	Silver	TVS TVS(tr)
		Sulfide	--- 0.002	Uranium	varies* varies*
				Zinc	TVS TVS(sc)

6. Mainstem of Coke Oven Creek, including wetlands, from the Lizard Head Wilderness Area boundary to its confluences with the Dolores River.

COSJDO06	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I CS-I	Arsenic	340 ---
	Recreation E	acute	chronic	Arsenic(T)	--- 0.02
	Water Supply	D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS
Qualifiers:		D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---
Other:	*Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.	pH	6.5 - 9.0 ---	Chromium III	--- TVS
		chlorophyll a (mg/m ²)	--- 450 TVS	Chromium III(T)	50 ---
		E. Coli (per 100 mL)	--- 126	Chromium VI	TVS TVS
		Inorganic (mg/L)		Copper	TVS TVS
				Iron	--- WS
		acute	chronic	Iron(T)	--- 1000
		Ammonia	TVS TVS	Lead	TVS TVS
		Boron	--- 0.75	Lead(T)	50 ---
		Chloride	--- 250	Manganese	TVS TVS/WS
		Chlorine	0.019 0.011	Mercury(T)	--- 0.01
		Cyanide	0.005 ---	Molybdenum(T)	--- 150
		Nitrate	10 ---	Nickel	TVS TVS
		Nitrite	--- 0.05	Nickel(T)	--- 100
		Phosphorus	--- 0.14 TVS	Selenium	TVS TVS
		Sulfate	--- WS	Silver	TVS TVS(tr)
		Sulfide	--- 0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Dolores River Basin

7. Deleted.							
COSJDO07	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT		acute	chronic	
Qualifiers:		acute	chronic				
Other:							
		Inorganic (mg/L)					
		acute	chronic				
8. Mainstem of Horse Creek, including wetlands, from the source to the confluence with the Dolores River.							
COSJDO08	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Dolores River Basin

9. Mainstem of Silver Creek, including wetlands, from a point immediately below the Town of Rico's water supply diversion to the confluence with the Dolores River.						
COSJDO09	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	CS-I	CS-I	Arsenic	340	---
	Recreation E 5/1 - 10/31	acute	chronic	Arsenic(T)	---	7.6
	Recreation N 11/1 - 4/30	D.O. (mg/L)	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	7.0	Chromium III	TVS	TVS
Fish Ingestion		pH	6.5 - 9.0	Chromium III(T)	---	100
Other:		chlorophyll a (mg/m ²)	---	Chromium VI	TVS	TVS
		E. Coli (per 100 mL) 5/1 - 10/31	---	Copper	TVS	TVS
		E. Coli (per 100 mL) 11/1 - 4/30	---	Iron	---	---
		Inorganic (mg/L)		Lead	TVS	TVS
				Manganese	TVS	TVS
		Ammonia	TVS	Mercury(T)	---	0.01
		Boron	0.75	Molybdenum(T)	---	150
		Chloride	---	Nickel	TVS	TVS
		Chlorine	0.019	Selenium	TVS	TVS
		Cyanide	0.005	Silver	TVS	TVS(tr)
		Nitrate	100	Uranium	varies*	varies*
		Nitrite	0.05	Zinc	TVS	TVS
		Phosphorus	0.14TVS			
		Sulfate	---			
		Sulfide	0.002			

10a. Mainstem of the West Dolores River, including wetlands, from the Lizard Head Wilderness Area boundary to above the confluence with Fish Creek.						
COSJDO10A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	7.0	Cadmium(T)	5.0	---
Other:		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
				Copper	TVS	TVS
		Inorganic (mg/L)		Iron	---	WS
				Iron(T)	---	1000
		Ammonia	TVS	Lead	TVS	TVS
		Boron	0.75	Lead(T)	50	---
		Chloride	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	Mercury(T)	---	0.01
		Cyanide	0.005	Molybdenum(T)	---	150
		Nitrate	10	Nickel	TVS	TVS
		Nitrite	0.05	Nickel(T)	---	100
		Phosphorus	0.14TVS	Selenium	TVS	TVS
		Sulfate	WS	Silver	TVS	TVS(tr)
		Sulfide	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Dolores River Basin

10b. Mainstem of the West Dolores River, including wetlands, from above the confluence with Fish Creek to the confluence with the Dolores River.						
COSJDO10B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	50
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
					Copper	TVS
		Inorganic (mg/L)			Iron	---
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	0.14TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

11a. Lost Canyon, including tributaries and wetlands, from the source to the Forest Service Boundary.

COSJDO11A	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Water + Fish Standards		pH	6.5 - 9.0	---	Chromium III	---
Other:		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	50
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
					Copper	TVS
		Inorganic (mg/L)			Iron	---
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	0.14TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Dolores River Basin

11b. All tributaries to the Dolores River, including all wetlands, from a point immediately below the confluence of the West Dolores River to the inlet of McPhee Reservoir, except for the specific listing in Segments 4a and 11a.

COSJDO11B	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute		chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---	
	Recreation E	acute		chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Water + Fish Standards		pH	6.5 - 9.0	---	Chromium III	---	TVS	
Other:		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---	
*Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
				acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS(sc)	

11c. All tributaries to McPhee Reservoir, including wetlands, except for the specific listings in Segments 4a and 11b. All tributaries to the Dolores River, including wetlands, from the outlet of McPhee Reservoir to the bridge at Bradfield Ranch (Forest Route 505, near Montezuma/Dolores County Line). Beaver Creek and Plateau Creek, including tributaries and wetlands, from their sources to their confluences with the Dolores River.

COSJDO11C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
*Uranium(acute) = See 34.5(3) for details.		acute		chronic	Iron(T)	---	1000
*Uranium(chronic) = See 34.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS
		Sulfide	---	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Dolores River Basin

12. All lakes, and reservoirs tributary to the Dolores River and West Dolores River, which are within the Lizard Head Wilderness area. This segment includes Navajo Lake.								
COSJDO12	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
OW	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
		acute			chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Nitrogen	---	TVS	Selenium	TVS	TVS	
		Phosphorus	---	0.025*TVS	Silver	TVS	TVS(tr)	
		Sulfate	---	WS	Uranium	varies*	varies*	
Sulfide	---	0.002	Zinc	TVS	TVS			
13. Groundhog Reservoir.								
COSJDO13	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CLL	CLL	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
		acute			chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Nitrogen	---	TVS	Selenium	TVS	TVS	
		Phosphorus	---	0.025*TVS	Silver	TVS	TVS(tr)	
		Sulfate	---	WS	Uranium	varies*	varies*	
Sulfide	---	0.002	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Dolores River Basin

14. All lakes and reservoirs tributary to the Dolores River and West Dolores River, from the source to a point immediately below the confluence with the West Dolores River except for specific listings in Segments 12 and 13.

COSJDO14	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other: *Chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Nitrogen	---	TVS	Nickel(T)	---
		Phosphorus	---	0.025*TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

15. All lakes and reservoirs which are tributary to the Dolores River from a point immediately below the confluence of the West Dolores River, to the bridge at Bradfield Ranch (Forest Route 505, near Montezuma/Dolores County Line), except for the specific listing in Segment 4b. This segment includes Campbell Reservoir, Summers Reservoir, Red Lake, and Long Draw Reservoir.

COSJDO15	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 2	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Water + Fish Standards Other: *Chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 34.5(3) for details. *Uranium(chronic) = See 34.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Nitrogen	---	TVS	Nickel(T)	---
		Phosphorus	---	0.025*TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	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 34.6 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.
- (C) For certain site-specific temperature standards, the temperature excursions listed in Table I - Footnote 5(c) of 31.16 do not apply. Assessment of ambient-based temperature standards should be conducted in a way that represents similar conditions to those under which the criteria were developed (i.e., air, low flow, and warming event excursions should not apply). Similarly, where site-specific adjustments to the winter shoulder season have been adopted, the winter shoulder season excursion does not apply.

DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Water Quality Control Commission

REGULATION NO. 35 - CLASSIFICATIONS AND NUMERIC STANDARDS FOR GUNNISON AND LOWER DOLORES RIVER BASINS

5 CCR 1002-35

35.1 AUTHORITY

These regulations are promulgated pursuant to section 25-8-101 et seq. C.R.S., as amended, and in particular, 25-8-203 and 25-8-204.

35.2 PURPOSE

These regulations establish classifications and numeric standards for the Gunnison River/Lower Dolores River Basins, including all tributaries and standing bodies of water. This includes all or parts of Gunnison, Delta, Montrose, Ouray, Mesa, Saguache and Hinsdale Counties. This also includes the lower Dolores River and its tributaries in Dolores, Montrose, Mesa and San Miguel Counties. The classifications identify the actual beneficial uses of the water. The numeric standards are assigned to determine the allowable concentrations of various parameters. Discharge permits will be issued by the Water Quality Control Division to comply with basic, narrative, and numeric standards and control regulations so that all discharges to waters of the state protect the classified uses. It is intended that these and all other stream classifications and numeric standards be used in conjunction with and be an integral part of Regulation No. 31 Basic Standards and Methodologies for Surface Water.

35.3 INTRODUCTION

These regulations and tables present the classifications and numeric standards assigned to stream segments listed in the attached tables (See Appendix 35-1). As additional stream segments are classified and numeric standards for designated parameters are assigned for this drainage system, they will be added to or replace the numeric standards in the tables in Appendix 35-1. Any additions or revisions of classifications or numeric standards can be accomplished only after public hearing by the Commission and proper consideration of evidence and testimony as specified by the statute and the "basic regulations".

35.4 DEFINITIONS

See the Colorado Water Quality Control Act and the codified water quality regulations for definitions.

35.5 BASIC STANDARDS

(1) Temperature

All waters of the Gunnison/Lower Dolores River Basins are subject to the following standard for temperature. (Discharges regulated by permits, which are within the permit limitations, shall not be subject to enforcement proceedings under this standard). Temperature shall maintain a normal pattern of diurnal and seasonal fluctuations with no abrupt changes and shall have no increase in temperature of a magnitude, rate, and duration deemed deleterious to the resident aquatic life. This standard shall not be interpreted or applied in a manner inconsistent with section 25-8-104, C.R.S.

(2) Qualifiers

See Basic Standards and Methodologies for Surface Water for a listing of organic standards at 31.11 Table B and metal standards found at 31.16 Table III. The column in the tables headed "Water + Fish" are presumptively applied to all aquatic life class 1 streams which also have a water supply classification, and are applied to aquatic life class 2 streams which also have a water supply classification, on a case-by-case basis as shown in Appendix 35-1. The column in the tables at 31.11 and 31.16 Table III headed "Fish Ingestion" is presumptively applied to all aquatic life class 1 streams which do not have a water supply classification, and are applied to aquatic life class 2 streams which do not have a water supply classification, on a case-by-case basis as shown in Appendix 35-1.

(3) Uranium

- (a) All waters of the Gunnison/Lower Dolores River Basin, are subject to the following basic standard for uranium, unless otherwise specified by a water quality standard applicable to a particular segment. However, discharges of uranium regulated by permits which are within these permit limitations shall not be a basis for enforcement proceedings under this basic standard.
- (b) Uranium level in surface waters shall be maintained at the lowest practicable level.
- (c) In no case shall uranium levels in waters assigned a water supply classification be increased by any cause attributable to municipal, industrial, or agricultural discharges so as to exceed 16.8-30 µg/L or naturally-occurring concentrations (as determined by the State of Colorado), whichever is greater.
 - (i) The first number in the 16.8-30 µg/L 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.

(4) Nutrients

See Basic Standards and Methodologies for Surface Water at 31.17 for a listing of chlorophyll *a*, total nitrogen, and total phosphorus standards for lakes and reservoirs (Table V) and rivers and streams (Table VI). As described in 31.17(2), total nitrogen and total phosphorus standards will be considered for adoption in phases.

Prior to ~~May~~December 31, 2027~~2~~, ~~interim-total nitrogen and total phosphorus nutrient~~-values will be considered for adoption only in the limited circumstances defined at 31.17(e2)(a)(i) and (ii). For lakes and reservoirs, these circumstances include headwaters~~waterbodies~~upstream of certain domestic and non-domestic wastewater treatment facilities (31.17(2)(a)(i)(A)),
waterbodies with a Direct Use Water Supply (DUWS) Lakes and Reservoirs~~sub-classification~~(31.17(2)(a)(i)(B)), waterbodies with public swim beaches (31.17(2)(a)(i)(C)), and other special
circumstances determined by the Commission (31.17(2)(a)(i)(D)). For rivers and streams, these
circumstances include headwaters~~waterbodies~~upstream of certain domestic and non-domestic

wastewater treatment facilities (31.17(2)(a)(ii)(A)) and other special circumstances determined by the Commission (31.17(2)(a)(ii)(B)).

~~Additionally, prior to May 31, 2017, only total phosphorus and chlorophyll a will be considered for adoption. After May 31, 2017, total nitrogen will be considered for adoption per the circumstances outlined in 31.17(e).~~

~~Prior to May 31, 2022, nutrient criteria will be adopted for headwaters on a segment by segment basis for the Gunnison/Lower Dolores River Basin. Moreover, pursuant to 31.17(e2)(a)(i)(A) and 31.17(2)(a)(ii)(A), nutrient standards will only be adopted for waters upstream of all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012, and any non-domestic facilities subject to Regulation 85 effluent limits and discharging prior to May 31, 2012. The following is a list of all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012, cooling tower discharges, and any non-domestic facilities subject to Regulation 85 effluent limits and discharging prior to May 31, 2012 in the Gunnison/Lower Dolores River Basin:~~

Segment	Permittee Name	Facility Name	Permit No.
COGUUG04	Almont Sewage Hereafter In Transit Plant	Almont WWTF	COG588012
COGUUG05a	East River Regional Sanitation District	East River Regional SD WWTF	COG588079
COGUUG05b	Crested Butte South Metro District	Crested Butte South Metro Dist WWTF	COG588045
COGUUG08	Crested Butte Town of	Crested Butte Town of WWTF	CO0020443
COGUUG13	Mt Crested Butte WSD	Mt Crested Butte WSD	CO0027171
COGUUG14	Camp Gunnison Inc	Camp Gunnison Church Camp	COG588112
COGUUG14	Gunnison City of	Gunnison City of	CO0041530
COGUUG29a	L and N Inc	L & N Inc	COG588052
COGUUG29a	Lake City Town of	Lake City WWTF	CO0040673
COGUUG29a	Ute Trail Ranch Foundation	Sky Ranch at Ute Trail	COG588109
COGUNF03	Hotchkiss Town of	Hotchkiss Town of	CO0044903
COGUNF03	Paonia Town of	Paonia WWTF	CO0047431
COGUNF04a,c	Scarp Ridge Lodge	Irwin Mountain Lodge	CO0045217
COGUNF06b	Crawford Town of	Crawford WWTF	CO0037729
COGUUN03b	Ouray City of	Ouray City of	CO0043397
COGUUN03c	Ridgway Town of	Ridgway, Town of	COG588047
COGUUN04b	Montrose City of	Montrose WWTP	CO0039624
COGUUN04b	Olathe Town of	Olathe Town of	CO0020907
COGUUN04b	West Montrose Sanitation District	West Montrose Sanitation Dist WWTF	CO0030449
COGUUN10b	Elk Meadows Estates	Elk Meadows WWTF	COG589091
COGULG02	Delta City of	Delta WWTF	CO0039641
COGULG06b	Delta Correctional Center	Delta Correctional Center	COG588032
COGULG07b	Volunteers of America Care Fac	Horizon Health Care & Retirement Community	CO0042617
COGULG07b	Cedaredge Town of	Cedaredge WWTF	CO0031984
COGUSM03b	Last Dollar PUD Improvements Assn	Last Dollar WWTF	COG588005
COGUSM03b	Telluride Town of	Regional WWTF	CO0041840
COGUSM04a	Ilium Park Owners Association	Lawson Hull PUD Ilium Valley WWTF	COG588021
COGUSM04a	Wick Hospitality Group LLC	Blue Jay Restaurant and Lodge	COG588113
COGUSM04a	Fall Creek HOA	Fall Creek	COG588119
COGUSM05a	Naturita Town of	Naturita WWTF	CO0024007

Segment	Permittee Name	Facility Name	Permit No.
COGUSM08	Stemz LLC	Ilium Power Station Church Camp	COG588033
COGUSM12c	Nucla Town of	Nucla WWTF	COG589067
COGULD02	SW Mesa County Rural Public Improvement District	SW Mesa Co Rural Pub Imp Dist WWTF	COG588086

Prior to ~~May~~December 31, ~~2022~~2027:

- For segments located entirely above these facilities, ~~nutrient~~total nitrogen and total phosphorus standards apply to the entire segment.
- For segments with portions downstream of these facilities, ~~nutrient~~total nitrogen and total phosphorus standards only apply above these facilities, except where a waterbody has a DUWS sub-classification or public swim beach. A note was added to the total phosphorus and ~~chlorophyll a~~total nitrogen standards in these segments. The note references the table of qualified facilities at 35.5(4).
- For segments located entirely below these facilities, ~~nutrient~~total nitrogen and total phosphorus standards do not apply, except where a waterbody has a DUWS sub-classification or public swim beach.
- Additionally, for segments with portions downstream of these facilities or for segments located entirely below these facilities, total nitrogen and total phosphorus standards may apply where special circumstances have been identified by the Commission (31.17(2)(a)(i)(D) and 31.17(2)(a)(ii)(B)).

~~A note was added to the total phosphorus and chlorophyll a standards in lakes segments as nutrients standards apply only to lakes and reservoirs larger than 25 acres surface area.~~

35.6 TABLES

(1) Introduction

The numeric standards for various parameters in this regulation and in the tables in Appendix 35-1 were assigned by the Commission after a careful analysis of the data presented on actual stream conditions and on actual and potential water uses. For each parameter listed in the tables in Appendix 35-1, only the most stringent standard is shown. Additional, less stringent standards may apply to protect additional uses and can be found in the tables in Regulation No. 31.

Numeric standards are not assigned for all parameters listed in the tables in Regulation No. 31. If additional numeric standards are found to be needed during future periodic reviews, they can be assigned by following the proper hearing procedures.

(2) Abbreviations

(a) The following abbreviations are used in this regulation and the tables in Appendix 35-1:

ac	=	acute (1-day)
AEL	=	alternative effluent limit
°C	=	degrees Celsius
ch	=	chronic (30-day)
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
DM	=	daily maximum temperature
D.O.	=	dissolved oxygen

DUWS	=	direct use water supply
<i>E. coli</i>	=	<i>Escherichia coli</i>
mg/L	=	milligrams per liter
MWAT	=	maximum weekly average temperature
OW	=	outstanding waters
sc	=	sculpin
sp	=	spawning
SSE	=	site-specific equation
T	=	total recoverable
t	=	total
tr	=	trout
TVS	=	table value standard
µg/L	=	micrograms per liter
UP	=	use-protected
WL	=	warm lake temperature tier
WS	=	water supply
WS-II	=	warm stream temperature tier two
WS-III	=	warm stream temperature tier three

- (b) In addition, the following abbreviations are used:

Iron (chronic)	=	WS
Manganese (chronic)	=	WS
Sulfate (chronic)	=	WS

These abbreviations mean: For all surface waters with an actual water supply use, the less restrictive of the following two options shall apply as numerical standards, as specified in the Basic Standards and Methodologies at 31.16 Table II and III:

- (i) existing quality as of January 1, 2000; or
- (ii)

Iron	=	300 µg/L (dissolved)
Manganese	=	50 µg/L (dissolved)
Sulfate	=	250 mg/L (dissolved)

For all surface waters with a “water supply” classification that are not in actual use as a water supply, no water supply standards are applied for iron, manganese or sulfate, unless the Commission determines as the result of a site-specific rulemaking hearing that such standards are appropriate.

- (c) Temporary Modification for Water + Fish Chronic Arsenic Standard

- (i) The temporary modification for chronic arsenic standards applied to segments with an arsenic standard of 0.02 µg/L that has been set to protect the Water + Fish qualifier is listed in the Other column in Appendix 35-1 tables as As(ch)=hybrid.
- (ii) For discharges existing on or before 6/1/2013, the temporary modification is: As(ch)=current condition, expiring on 12/31/2024. Where a permit for an existing discharge is reissued or modified while the temporary modification is in effect, the division will include additional permit Terms and Conditions, which may include requirements for additional monitoring, source identification, and characterization of source control and treatment options for reducing arsenic concentrations in effluent.

- (iii) For new or increased discharges commencing on or after 6/1/2013, the temporary modification is: As(ch)=0.02-3.0 µg/L (total recoverable), expiring on 12/31/2024.
- (a) The first number in the range is the health-based water quality standard previously adopted by the Commission for the segment.
- (b) The second number in the range is a technology-based value established by the Commission for the purpose of this temporary modification.
- (c) 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.

(3) Table Value Standards

In certain instances in the tables in Appendix 35-1, the designation “TVS” is used to indicate that for a particular parameter a “table value standard” has been adopted. This designation refers to numerical criteria set forth in the Basic Standards and Methodologies for Surface Water. The criteria for which the TVS are applicable are on the following table.

TABLE VALUE STANDARDS
(Concentrations in µg/L unless noted)

PARAMETER ⁽¹⁾	TABLE VALUE STANDARDS ⁽²⁾⁽³⁾
Aluminum(T)	<p>Acute = $e^{(1.3695 \cdot \ln(\text{hardness}) + 1.8308)}$</p> <p>pH equal to or greater than 7.0</p> <p>Chronic = $e^{(1.3695 \cdot \ln(\text{hardness}) - 0.1158)}$</p> <p>pH less than 7.0</p> <p>Chronic = $e^{(1.3695 \cdot \ln(\text{hardness}) - 0.1158)}$ or 87, whichever is less</p>
Ammonia ⁽⁴⁾	<p>Cold Water = (mg/L as N) Total</p> $acute = \frac{0.275}{1 + 10^{7.204 - pH}} + \frac{39.0}{1 + 10^{pH - 7.204}}$ $chronic = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * MIN(2.85, 1.45 * 10^{0.028(25 - T)})$ <p>Warm Water = (mg/L as N) Total</p> $acute = \frac{0.411}{1 + 10^{7.204 - pH}} + \frac{58.4}{1 + 10^{pH - 7.204}}$ $chronic (Apr1 - Aug31) = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * MIN(2.85, 1.45 * 10^{0.028(25 - T)})$ $chronic (Sep1 - Mar31) = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * 1.45 * 10^{0.028 * (25 - MAX(T, 7))}$
Cadmium	<p>Acute(warm)⁽⁵⁾ = $(1.136672 - (\ln(\text{hardness}) * 0.041838)) * e^{(0.9789 \cdot \ln(\text{hardness}) - 3.443)}$</p> <p>Acute(cold)⁽⁵⁾ = $(1.136672 - (\ln(\text{hardness}) * 0.041838)) * e^{(0.9789 \cdot \ln(\text{hardness}) - 3.866)}$</p> <p>Chronic = $(1.101672 - (\ln(\text{hardness}) * 0.041838)) * e^{(0.7977 \cdot \ln(\text{hardness}) - 3.909)}$</p>
<u>Chlorophyll a⁽⁶⁾</u>	<u>See 31.17 TVS for Aquatic Life and/or Recreation and Direct Use Water Supply (DUWS).</u>

Chromium III ⁽⁷⁶⁾	Acute = $e^{(0.819 \ln(\text{hardness}) + 2.5736)}$ Chronic = $e^{(0.819 \ln(\text{hardness}) + 0.5340)}$					
Chromium VI ⁽⁷⁶⁾	Acute = 16 Chronic = 11					
Copper	Acute = $e^{(0.9422 \ln(\text{hardness}) - 1.7408)}$ Chronic = $e^{(0.8545 \ln(\text{hardness}) - 1.7428)}$					
Lead	Acute = $(1.46203 - (\ln(\text{hardness}) * 0.145712)) * e^{(1.273 \ln(\text{hardness}) - 1.46)}$ Chronic = $(1.46203 - (\ln(\text{hardness}) * 0.145712)) * e^{(1.273 \ln(\text{hardness}) - 4.705)}$					
Manganese	Acute = $e^{(0.3331 \ln(\text{hardness}) + 6.4676)}$ Chronic = $e^{(0.3331 \ln(\text{hardness}) + 5.8743)}$					
Nickel	Acute = $e^{(0.846 \ln(\text{hardness}) + 2.253)}$ Chronic = $e^{(0.846 \ln(\text{hardness}) + 0.0554)}$					
Nitrogen ⁽⁶⁾	<u>See 31.17 TVS for Aquatic Life and/or Recreation.</u>					
Phosphorus ⁽⁶⁾	<u>See 31.17 TVS for Aquatic Life and/or Recreation.</u>					
Selenium ⁽⁸⁷⁾	Acute = 18.4 Chronic = 4.6					
Silver	Acute = $0.5 * e^{(1.72 \ln(\text{hardness}) - 6.52)}$ Chronic = $e^{(1.72 \ln(\text{hardness}) - 9.06)}$ Chronic(Trout) = $e^{(1.72 \ln(\text{hardness}) - 10.51)}$					
Temperature	TEMPERATURE TIER	TIER CODE	SPECIES EXPECTED TO BE PRESENT	APPLICABLE MONTHS	TEMPERATURE STANDARD (°C)	
	Cold Stream Tier I	CS-I	brook trout, cutthroat trout	June – Sept.	MWAT	DM
				Oct. – May	17.0	21.7
	Cold Stream Tier II	CS-II	all other cold-water species	April – Oct.	9.0	13.0
				Nov. – March	18.3	24.3
	Cold Lakes ⁽⁹⁸⁾	CL	brook trout, brown trout, cutthroat trout, lake trout, rainbow trout, Arctic grayling, sockeye salmon	April – Dec.	9.0	13.0
				Jan. – March	17.0	21.2
	Cold Large Lakes (>100 acres surface area) ⁽⁹⁸⁾	CLL	rainbow trout, brown trout, lake trout	April – Dec.	18.3	24.2
				Jan. – March	9.0	13.0
	Warm Stream Tier II	WS-II	brook stickleback, central stoneroller, creek chub, longnose dace, northern redbelly dace, finescale dace, razorback sucker, white sucker, mountain sucker	March – Nov.	27.5	28.6
				Dec. – Feb.	13.8	25.2
	Warm Stream Tier III	WS-III	all other warm-water species	March – Nov.	28.7	31.8
				Dec. – Feb.	14.3	24.9
	Warm Lakes	WL	black crappie, bluegill, common carp, gizzard shad, golden shiner, largemouth bass, northern pike,	April – Dec.	26.2	29.3

			pumpkinseed, sauger, smallmouth bass, spottail shiner, stonecat, striped bass, tiger muskellunge, walleye, wiper, white bass, white crappie, yellow perch	Jan. – March	13.1	24.1
Uranium	Acute = $e^{(1.1021 \cdot \ln(\text{hardness}) + 2.7088)}$ Chronic = $e^{(1.1021 \cdot \ln(\text{hardness}) + 2.2382)}$					
Zinc	Acute = $0.978 \cdot e^{(0.9094 \cdot \ln(\text{hardness}) + 0.9095)}$ Chronic = $0.986 \cdot e^{(0.9094 \cdot \ln(\text{hardness}) + 0.6235)}$ Where hardness is less than 102 mg/L CaCO_3 and mottled sculpin are expected to be present: Chronic (sculpin) = $e^{(2.140 \cdot \ln(\text{hardness}) - 5.084)}$					

TABLE VALUE STANDARDS - FOOTNOTES

- (1) Metals are stated as dissolved unless otherwise specified. Nitrogen and phosphorus standards are based upon the concentration of total nitrogen and total phosphorus.
- (2) Hardness values to be used in equations are in mg/L as calcium carbonate and shall be no greater than 400 mg/L, except for aluminum for which hardness shall be no greater than 220 mg/L. The hardness values used in calculating the appropriate metal standard should be based on the lower 95 per cent confidence limit of the mean hardness value at the periodic low flow criteria as determined from a regression analysis of site-specific data. Where insufficient site-specific data exists to define the mean hardness value at the periodic low flow criteria, representative regional data shall be used to perform the regression analysis. Where a regression analysis is not appropriate, a site-specific method should be used. In calculating a hardness value, regression analyses should not be extrapolated past the point that data exist.
- (3) Both acute and chronic numbers adopted as stream standards are levels not to be exceeded more than once every three years on the average.
- (4) For acute conditions the default assumption is that salmonids could be present in cold water segments and should be protected, and that salmonids do not need to be protected in warm water segments. For chronic conditions, the default assumptions are that early life stages could be present all year in cold water segments and should be protected. In warm water segments the default assumption is that early life stages are present and should be protected only from April 1 through August 31. These assumptions can be modified by the commission on a site-specific basis where appropriate evidence is submitted. The "T" in the chronic equations stands for temperature.
- (5) The acute(warm) cadmium equation applies to segments classified as Aquatic Life Warm Class 1 or 2. The acute(cold) cadmium equation applies to segments classified as Aquatic Life Cold Class 1 or 2.
- (6) For lakes and reservoirs, the chlorophyll a, total nitrogen, and total phosphorus standards for Aquatic Life and Recreation apply only to lakes and reservoirs greater than 25 acres in surface area. The chlorophyll a standard for Direct Use Water Supply (DUWS) applies to lakes and reservoirs of any size.
- (76) Unless the stable forms of chromium in a waterbody have been characterized and shown not to be predominantly chromium VI, data reported as the measurement of all valence states of chromium combined should be treated as chromium VI. In addition, in no case can the sum of the concentrations of chromium III and chromium VI or data reported as

the measurement of all valence states of chromium combined exceed the water supply standards of 50 µg/L chromium in those waters classified for domestic water use.

(87) Selenium is a bioaccumulative metal and subject to a range of toxicity values depending upon numerous site-specific variables.

(98) Lake trout-based summer temperature criteria [16.6 (ch), 22.4 (ac)] apply where appropriate and necessary to protect lake trout from thermal impacts.

(4) Discharger-specific Variances

(a) San Miguel Segment 12c (COGUSM12c):

Discharger-specific Variance, Town of Nucla (COG589067): Adopted 10/11/2016.

Ammonia (acute): AEL=no limit;

Ammonia (chronic): AEL=13.8 mg/L (11/1-4/30);

Ammonia (chronic): AEL=8.3 mg/L (5/1-10/31).

Expiration date: 12/31/2026.

(5) Stream Classifications and Water Quality Standards Tables

The stream classifications and water quality standards tables in Appendix 35-1 are incorporated herein by reference.

The following is information regarding duration and measured form of standards in Appendix 35-1:

(a) *E. coli* criteria and resulting standards for individual water segments, are established as indicators of the potential presence of pathogenic organisms. Standards for *E. coli* are expressed as a two-month geometric mean. Site-specific or seasonal standards are also two-month geometric means unless otherwise specified.

~~(b) All phosphorus standards are based upon the concentration of total phosphorus. For total phosphorus, stream standards are expressed as an annual median and for lakes standards as a summer (July 1–September 30) average in the mixed layer. For chlorophyll a, stream standards are expressed as a maximum of attached algae and lakes standards as a summer (July 1–September 30) average in the mixed layer. For additional assessment details, see tables at Regulation 31.17(b) and (d).~~

(eb) The pH standards of 6.5 (or 5.0) and 9.0 are an instantaneous minimum and maximum, respectively to be applied as effluent limits. In determining instream attainment of water quality standards for pH, appropriate averaging periods may be applied, provided that beneficial uses will be fully protected.

(dc) All mercury standards apply to the total recoverable fraction of all forms, both organic and inorganic, of mercury in water.

(ed) All ammonia, nitrate, and nitrite standards are based upon the concentration reported as nitrogen.

(6) Site-specific Standards, Assessment Locations, and Assessment Criteria

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

- (a) Upper Gunnison Segment 18b: Temperature Assessment Locations (4/1 – 10/31)
 - Tomichi Creek at Doyleville: 38.456592, -106.626869
 - Tomichi Creek at Gunnison: 38.521111, -106.940958
- (b) North Fork Gunnison Segment 3: Temperature Assessment Location (3/16 – 11/15)
 - North Fork Gunnison River above mouth near Lazear: 38.785167, -107.833417

35.7 - 35.10 RESERVED

35.52 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; NOVEMBER 14, 2022 RULEMAKING; FINAL ACTION _____; EFFECTIVE DATE APRIL 30, 2023

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

BASIS AND PURPOSE

A. Revision of Total Nitrogen and Total Phosphorus Table Value Standards for Lakes and Reservoirs at 31.17

In March 2012, the commission adopted interim numerical nutrient table value standards for chlorophyll *a* to protect the Aquatic Life, Recreation, and Direct Use Water Supply (DUWS) uses and table value standards for total nitrogen and total phosphorus to protect the Aquatic Life and Recreation uses (31.50) in lakes, reservoirs, rivers, and streams. In its July 2016 action letter for the March 2012 rulemaking hearing, EPA recommended revisiting the classification analysis for lakes and reservoirs to account for the variability between lakes (e.g., Cold and Warm lakes), evaluating confounding factors in the stressor-response relationship between nutrients and chlorophyll *a*, and evaluating whether the standards are protective of lakes with a high chlorophyll *a* yield per unit of nutrient.

In this hearing, the commission adopted revised total nitrogen and total phosphorus standards for lakes and reservoirs to address EPA's 2016 recommendations and ensure protective standards are adopted on lakes and reservoirs with Aquatic Life, Recreation, and/or DUWS uses (31.17 Table V). The numeric nutrient standards for total nitrogen and total phosphorus represent growing season (July through September) average concentrations with an allowable exceedance frequency is once in five years, and apply to lakes greater than 25 acres in size and with a residence time of at least 14 days. The commission adopted these standards into Regulation No. 31 and the basin regulations (Regulation Nos. 32-38) in this rulemaking; additional details about the revised total nitrogen and total phosphorus standards for lakes and reservoirs are included in 31.60.

B. Implementation of Nutrients Table Value Standards

The commission revised 35.5(4) to reflect the current status of the phased implementation framework for nutrients standards and remove information regarding implementation that concludes December 31, 2022. These revisions included removing language regarding phased implementation of chlorophyll *a* standards for lakes, reservoirs, rivers, and streams, as these standards now apply to all waterbodies with Aquatic Life, Recreation, and/or DUWS uses in Colorado. The information regarding the specific circumstances where nitrogen and phosphorus standards will apply before December 31, 2027 was clarified and includes additional references to 31.17. Also, to be consistent with past practice and the commission's intent in 31.55, the word "headwaters" was replaced with "waterbodies upstream of certain domestic and non-domestic wastewater treatment facilities". Finally, references to new Tables V (nutrients standards for lakes and reservoirs) and VI (nutrients standards for rivers and streams) in 31.17 were also added.

The commission revised the Table Value Standards table in 35.6(3) to include chlorophyll *a*, total nitrogen, and total phosphorus. Instead of replicating the numerical values for these table value standards, the table references 31.17, as 31.17 contains the numeric standards (in Tables V and VI), implementation information, and additional details regarding the phased implementation framework. As part of this change, the commission revised Footnote 1 to specify that the nitrogen and phosphorus standards are based upon the total concentration; this information was previously contained in 35.6(5)(b), which was deleted. Additionally, the commission adopted a new Footnote 6 that clarifies that, with the exception of the chlorophyll *a* standard to protect the DUWS sub-classification, the chlorophyll *a*, total nitrogen, and total phosphorus standards apply only to lakes and reservoirs larger than 25 acres surface area. The chlorophyll *a* standard to protect DUWS lakes and reservoirs applies to lakes and reservoirs of

all sizes. This information was previously included in the segment tables in Appendix 35-1, but was moved to Footnote 6 for clarity.

1. Nitrogen and Phosphorus Standards for Lakes, Reservoirs, Rivers, and Streams

a. Lakes and Reservoirs

Adoption of total phosphorus standards was previously limited to specific segments or portions of segments, as outlined in 31.50(VI)(A) (i.e., waterbodies above certain discharge facilities and site-specific situations where numeric standards were needed to protect uses). Prior to this rulemaking hearing, total nitrogen standards had not been adopted on any waterbodies. However, consistent with the phased implementation strategy developed in 2012 (31.50(VI)(A)) and 2017 (31.55), the commission expanded the adoption of the total phosphorus standards to also include all lake and reservoirs with the DUWS sub-classification and waterbodies with a public swim beach (defined as waterbodies with a natural swimming area per C.R.S § 25-5-801, including having a fee-based cordoned off swim area). The commission also adopted total nitrogen standards on the same set of waterbodies (i.e., waterbodies above certain discharge facilities, site-specific situations where numeric standards were needed to protect uses, DUWS, and swim beaches). Consistent with 31.17, the total phosphorus and total nitrogen standards apply only to lakes and reservoirs greater than 25 acres.

The commission previously adopted the DUWS sub-classification and notation in the Appendix 35-1 tables on several waterbodies in previous rulemaking hearings, but public swim beaches were identified in the current rulemaking. However, it was only necessary to specify the presence of a public swim beach in limited cases, because most public swim beaches in Colorado are also either classified as DUWS or located above certain discharge facilities; waterbodies falling into either of those categories are also assigned nitrogen and phosphorus standards. Therefore, the “Public Swim Beach” notation only needed to be applied to waterbodies where the total nitrogen and total phosphorus standards were only being applied due to the presence of a swim beach. Due to the presence of a public swim beach, the commission adopted total nitrogen and total phosphorus standards, “Public Swim Beach” in the Qualifier column, and a note to specify the swim beach reservoir in the Other column on the following segments:

Uncompahgre River: 19 (COGUUN19; Ridgway Reservoir)

b. Rivers and Streams

In rivers and streams, the commission did not adopt total phosphorus standards on any additional river or stream waterbodies or total nitrogen table value standards on any waterbodies, consistent with the phased implementation timeline outlined in 31.17 and 35.5(4).

c. Formatting of Nitrogen and Phosphorus Standards in Appendix 35-1

The commission changed how previously-adopted total phosphorus table value standards were presented in the segment tables in Appendix 35-1. Specifically, the table value standards were previously shown as numeric values, which were replaced with “TVS”. Similarly, any total nitrogen or total phosphorus standards adopted in this rulemaking hearing were adopted into the Appendix 35-1 tables as “TVS”. This approach allows the regulation to point directly to 31.17, which has a complete record of information regarding these table value standards.

2. Chlorophyll *a* Standards for Lakes, Reservoirs, Rivers, and Streams

The commission made no changes to the chlorophyll *a* standards to protect Aquatic Life, Recreation, and/or DUWS uses in lakes, reservoirs, rivers, or streams. In addition, the commission made no changes to existing site-specific chlorophyll *a* standards.

Adoption of chlorophyll *a* standards was previously limited to specific segments or portions of segments, as outlined in 31.50(VI)(A) (i.e., waterbodies above certain discharge facilities and site-specific situations where numeric standards were needed to protect uses). However, consistent with the phased implementation strategy developed in 2012 (31.50(VI)(A)) and 2017 (31.55), the commission expanded the adoption of chlorophyll *a* standards to all segments with Aquatic Life, Recreation, and/or DUWS uses.

Specifically, in this rulemaking hearing, the commission adopted the chlorophyll *a* table value standard of 8 µg/L for all cold water lakes or reservoirs (larger than 25 acres) with Aquatic Life or Recreation E, U, or P uses; 20 µg/L for all warm water lakes or reservoirs (larger than 25 acres) with Aquatic Life or Recreation E, U, or P uses; and 150 mg/m² for all cold or warm water streams with a Recreation E, U, or P use. In the segment tables in Appendix 35-1, these table value standards were adopted as “TVS” and any previously-adopted table value standards shown as numeric values were changed to “TVS”. This approach allows the regulation to point directly to 31.17, which has a complete record of information regarding these table value standards.

In addition, the commission adopted the table value standard of 5 µg/L for all lakes or reservoirs (of any size) with DUWS; in Appendix 35-1, these table value standards are shown as “DUWS”. The phased implementation of the chlorophyll *a* standards adoption is now complete.

C. Clarifications and Corrections

The following edits were made to Appendix 35-1 to improve clarity and correct errors:

- The Direct Use Water Supply (DUWS) references in segments in Appendix 35-1 were revised to improve clarity and consistency.
- Where the chlorophyll *a* and phosphorus standards adopted in previous rulemaking hearings were not consistent with the use(s), the commission made the following corrections:

Uncompahgre River: 6a (COGUUN06a; chlorophyll *a*; delete because the chlorophyll *a* standard of 150 mg/m² does not apply to river and stream segments with a Recreation N use)

- In Appendix 35-1, on Uncompahgre River Segment 22 (COGUUN22), the Direct Use Water Supply (DUWS) note specifying that “DUWS applies to Fairview Reservoir only” was deleted. Fairview Reservoir is the only waterbody included in this segment, so it is not necessary to specify which waterbody is DUWS.

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

5 CCR 1002-35

**REGULATION NO. 35
CLASSIFICATIONS AND NUMERIC STANDARDS
FOR
GUNNISON AND LOWER DOLORES RIVER BASINS**

**APPENDIX 35-1
Stream Classifications and Water Quality Standards Tables**

Effective ~~09/30/2022~~04/30/2023

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 #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

1. All tributaries and wetlands to the Gunnison River within the La Garita, Powderhorn, West Elk, Collegiate Peaks, Maroon Bells, Raggeds, Fossil Ridge, or Uncompahgre Wilderness Areas.								
COGUUG01	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	150TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
		acute	chronic	Iron(T)	---	1000		
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.02	Nickel(T)	---	100	
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	
		2. All tributaries and wetlands from Beaver Creek to Meyers Gulch, from the West Elk Wilderness boundary to their confluences with Blue Mesa Reservoir, Morrow Point Reservoir, or the Gunnison River, excluding Steuben Creek and Willow Creek and their tributaries.						
		COGUUG02	Classifications	Physical and Biological			Metals (ug/L)	
		Designation	Agriculture	DM	MWAT	acute	chronic	
		OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
Recreation E	acute		chronic	Arsenic(T)	---	0.02		
Water Supply	D.O. (mg/L)		---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	150TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
		acute	chronic	Iron(T)	---	1000		
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.02	Nickel(T)	---	100	
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

3. Mainstem of the Taylor River, including all tributaries and wetlands, from the source to a point immediately below the confluence with Illinois Creek, except for listings in Segment 1.

COGUUG03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

4. Mainstem of the Taylor River, including all tributaries and wetlands, from a point immediately below the confluence with Illinois Creek to the confluence with the Gunnison River, except for listings in Segment 1.

COGUUG04	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

5a. Mainstem of the East River, including all tributaries and wetlands, from its source to a point immediately above the confluence with the Slate River, except for specific listings in Segment 1.							
COGUUG05A		Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m²)	---	150*TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024					Iron	---	WS
*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 35.5(4).					Iron(T)	---	1000
*Phosphorus(chronic) = applies only above the facilities listed at 35.5(4).					Lead	TVS	TVS
*Uranium(acute) = See 35.5(3) for details.					Lead(T)	50	---
*Uranium(chronic) = See 35.5(3) for details.					Manganese	TVS	TVS/WS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

5b. Mainstem of the East River from a point immediately above the Slate River to the confluence with the Gunnison River.							
COGUUG05B		Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024					Iron	---	WS
*Uranium(acute) = See 35.5(3) for details.					Iron(T)	---	1000
*Uranium(chronic) = See 35.5(3) for details.					Lead	TVS	TVS
					Lead(T)	50	---
					Manganese	TVS	TVS/WS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

5b. Mainstem of the East River from a point immediately above the Slate River to the confluence with the Gunnison River.							
COGUUG05B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

6a. All tributaries and wetlands to the East River from a point immediately above its confluence with the Slate River to its confluence with the Gunnison River, except for listings in Segments 6b and 6c.

COGUUG06A	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 2 Recreation U	Temperature °C	CS-I CS-I	Arsenic	340 ---
Qualifiers:		acute	chronic	Arsenic(T)	--- 100
Other:		D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS
		D.O. (spawning)	--- 7.0	Chromium III	TVS TVS
		pH	6.5 - 9.0 ---	Chromium III(T)	--- 100
		chlorophyll a (mg/m ²)	--- 150 TVS	Chromium VI	TVS TVS
		E. coli (per 100 mL)	--- 126	Copper	TVS TVS
				Iron(T)	--- 1000
		Inorganic (mg/L)		Lead	TVS TVS
		acute	chronic	Manganese	TVS TVS
		Ammonia	TVS TVS	Mercury(T)	--- 0.01
		Boron	--- 0.75	Molybdenum(T)	--- 150
		Chloride	--- ---	Nickel	TVS TVS
		Chlorine	0.019 0.011	Selenium	TVS TVS
		Cyanide	0.005 ---	Silver	TVS TVS(tr)
		Nitrate	100 ---	Uranium	varies* varies*
		Nitrite	--- 0.5	Zinc	TVS TVS
		Phosphorus	--- 0.11 TVS		
		Sulfate	--- ---		
		Sulfide	--- 0.002		

6b. Cement Creek, including all tributaries and wetlands, from the source to a point immediately above the confluence with Horse Basin Creek.

COGUUG06B	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:		acute	chronic	Arsenic(T)	--- 0.02
Other:		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 TVS	Chromium III(T)	50 ---
		E. coli (per 100 mL)	--- 126	Chromium VI	TVS TVS
				Copper	TVS TVS
		Inorganic (mg/L)		Iron	--- WS
		acute	chronic	Iron(T)	--- 1000
		Ammonia	TVS TVS	Lead	TVS TVS
		Boron	--- 0.75	Lead(T)	50 ---
		Chloride	--- 250	Manganese	TVS TVS/WS
		Chlorine	0.019 0.011	Mercury(T)	--- 0.01
		Cyanide	0.005 ---	Molybdenum(T)	--- 150
		Nitrate	10 ---	Nickel	TVS TVS
		Nitrite	--- 0.05	Nickel(T)	--- 100
		Phosphorus	--- 0.11 TVS	Selenium	TVS TVS
		Sulfate	--- WS	Silver	TVS TVS(tr)
		Sulfide	--- 0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

6c. Cement Creek, including all tributaries and wetlands, from a point immediately above the confluence with Horse Basin Creek to the confluence with the East River.								
COGUUG06C	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	150TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
					Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	
		7. Mainstem of the Slate River from its source to a point immediately above the confluence with Coal Creek.						
		COGUUG07	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	150TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
					Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	

7. Mainstem of the Slate River from its source to a point immediately above the confluence with Coal Creek.								
COGUUG07	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m ²)	---	150TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
					Iron(T)	---	1000	
					Lead	TVS	TVS	
					Lead(T)	50	---	
					Manganese	TVS	TVS/WS	
					Mercury(T)	---	0.01	
					Molybdenum(T)	---	150	
					Nickel	TVS	TVS	
					Nickel(T)	---	100	
					Selenium	TVS	TVS	
					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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

8. Mainstem of the Slate River from a point immediately above the confluence with Coal Creek to the confluence with the East River.							
COGUUG08	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I*	CS-I* ^C	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

9. All tributaries and wetlands to the Slate River except for specific listings in Segments 1, 10a, 10b, 11, 12 and 13.							
COGUUG09	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	210
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

10a. Mainstem of Oh-Be-Joyful Creek from the boundary of the Raggeds Wilderness Area to the confluence with the Slate River.							
COGUUG10A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	7.6	
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m²)	---	150TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	8.6
					Manganese	TVS	TVS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS
		10b. Mainstem of Redwell Creek, including all tributaries and wetlands, from the source to the confluence with Oh-Be-Joyful Creek.					
COGUUG10B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	7.6	
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m²)	---	150TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	407
					Manganese	TVS	TVS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

10b. Mainstem of Redwell Creek, including all tributaries and wetlands, from the source to the confluence with Oh-Be-Joyful Creek.							
COGUUG10B Classifications		Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m²)	---	150 TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	407
			acute	chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	TVS	TVS
Phosphorus	---	0.44 TVS					
Sulfate	---	---					
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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

11. Mainstem of Coal Creek from a point immediately above the confluence with Elk Creek to a point immediately above the Keystone Mine discharge (38.867117, -107.023627). Elk Creek and its tributaries and wetlands from its source to its confluence with Coal Creek.

COGUUG11	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	Arsenic	340
	Recreation E			Arsenic(T)	---
	Water Supply			Arsenic(T)	0.02
Qualifiers:				Cadmium	TVS
Other:				Cadmium(T)	5.0
				Chromium III	---
				Chromium III(T)	TVS
				Chromium VI	50
				Chromium VI	---
				Copper	TVS
				Copper	TVS
				Iron	---
				Iron	WS
				Iron(T)	---
				Iron(T)	1000
				Lead	TVS
				Lead	TVS
				Lead(T)	50
				Lead(T)	---
				Manganese	TVS
				Manganese	TVS/WS
				Mercury(T)	---
				Mercury(T)	0.01
				Molybdenum(T)	---
				Molybdenum(T)	210
				Nickel	TVS
				Nickel	TVS
				Nickel(T)	---
				Nickel(T)	100
				Selenium	TVS
				Selenium	TVS
				Silver	TVS
				Silver	TVS(tr)
				Uranium	varies*
				Uranium	varies*
				Zinc	TVS
				Zinc	TVS

12. Mainstem of Coal Creek, including all tributaries and wetlands, from a point immediately above the Keystone Mine discharge (38.867117, -107.023627) to the confluence with the Slate River, with the exception of Wildcat Creek.

COGUUG12	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	Arsenic	340
	Recreation E			Arsenic(T)	---
	Water Supply			Arsenic(T)	0.02
Qualifiers:				Cadmium	TVS
Other:				Cadmium(T)	TVS
				Cadmium(T)	5.0
				Chromium III	---
				Chromium III	TVS
				Chromium III(T)	---
				Chromium III(T)	50
				Chromium VI	---
				Chromium VI	TVS
				Copper	TVS
				Copper	TVS
				Iron	---
				Iron	WS
				Iron(T)	---
				Iron(T)	1000
				Lead	TVS
				Lead	TVS
				Lead(T)	50
				Lead(T)	---
				Manganese	TVS
				Manganese	TVS/191
				Mercury(T)	---
				Mercury(T)	0.01
				Molybdenum(T)	---
				Molybdenum(T)	150
				Nickel	TVS
				Nickel	TVS
				Nickel(T)	---
				Nickel(T)	100
				Selenium	TVS
				Selenium	TVS
				Silver	TVS
				Silver	TVS(tr)
				Uranium	varies*
				Uranium	varies*
				Zinc	TVS
				Zinc	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

13. Mainstem of Woods Creek from the source to the confluence with Washington Gulch.							
COGUUG13	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Water + Fish Standards		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m²)	---	150*TVS	Chromium III(T)	50	---
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 35.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 35.5(4). *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
					Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
		Zinc	TVS	TVS			

14. Mainstem of the Gunnison River from its inception at the confluence of the East and Taylor rivers to the inlet of Blue Mesa Reservoir.							
COGUUG14	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (mg/m²)	---	--TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
					Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
		Zinc	TVS	TVS			

14. Mainstem of the Gunnison River from its inception at the confluence of the East and Taylor rivers to the inlet of Blue Mesa Reservoir.							
COGUUG14	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

15a. All tributaries and wetlands to the Gunnison River from its inception at the confluence of the East and Taylor Rivers to the County Road 32 road crossing near the inlet of Blue Mesa Reservoir except for the specific listings in Segments 1, 15b, 16a, 16b, 17 through 24, and 26.

COGUUG15A	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute		chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---	
	Recreation U	acute		chronic	Arsenic(T)	---	0.02-10 ^A	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m ²)	---	450 TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
				acute	chronic	Iron(T)	---	1950
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	

15b. South Beaver Creek, including all tributaries and wetlands, from the source to the Saguache/Gunnison County line.

COGUUG15B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation U	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 35.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 35.5(3) for details.		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

16a. Mainstem of Ohio Creek, including all tributaries and wetlands, from the source to a point immediately below 7 Road, except for listings in Segment 1.						
COGUUG16A	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation U	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
					Copper	TVS
		Inorganic (mg/L)			Iron	---
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	0.44TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

16b. Mainstem of Ohio Creek from a point immediately below 7 Road to the confluence with the Gunnison River.						
COGUUG16B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I*	CS-I*	Arsenic	340
	Recreation U	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
					Copper	TVS
		Inorganic (mg/L)			Iron	---
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	0.44TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

17a. West Antelope Creek, including all tributaries and wetlands, from the source to the confluence with Antelope Creek.							
COGUUG17A		Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation U		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
<div>*Uranium(acute) = See 35.5(3) for details.</div> <div>*Uranium(chronic) = See 35.5(3) for details.</div>		chlorophyll a (mg/m ²)	---	150TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

17b. Mainstem of Antelope Creek, including all tributaries and wetlands, from the source to the confluence with the Gunnison River, excluding the listings in Segment 17a.							
COGUUG17B		Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation U		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
<div>*Uranium(acute) = See 35.5(3) for details.</div> <div>*Uranium(chronic) = See 35.5(3) for details.</div>		chlorophyll a (mg/m ²)	---	150TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

17b. Mainstem of Antelope Creek, including all tributaries and wetlands, from the source to the confluence with the Gunnison River, excluding the listings in Segment 17a.							
COGUUG17B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation U	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
					Iron	---	WS
			Inorganic (mg/L)		Iron(T)	---	1000
			acute	chronic	Lead	TVS	TVS
		Ammonia	TVS	TVS	Lead(T)	50	---
		Boron	---	0.75	Manganese	TVS	TVS/WS
		Chloride	---	250	Mercury(T)	---	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	10	---	Nickel(T)	---	100
		Nitrite	---	0.05	Selenium	TVS	TVS
		Phosphorus	---	0.44 TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS

*Uranium(acute) = See 35.5(3) for details.

*Uranium(chronic) = See 35.5(3) for details.

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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

18a. Mainstem of Tomichi Creek and its wetlands from the source to the confluence with Porphyry Creek.							
COGUUG18A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation U	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 35.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 35.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

18b. Mainstem of Tomichi Creek and its wetlands from the confluence with Porphyry Creek to the confluence with the Gunnison River.							
COGUUG18B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies* °C	Arsenic	340	---
	Recreation U	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 35.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 35.5(3) for details.		acute	chronic	Iron(T)	---	1000	
*Temperature =		Ammonia	TVS	TVS	Lead	TVS	TVS
DM and MWAT=CS-II from 11/1-3/31		Boron	---	0.75	Lead(T)	50	---
DM=CS-II and MWAT=18.9 from 4/1-10/31		Chloride	---	250	Manganese	TVS	TVS/WS
See temperature assessment locations at 35.6(6).		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

19. All tributaries to Tomichi Creek, including wetlands, which are within the boundaries of the Gunnison National Forest, except for specific listings in Segments 20 through 24. Mainstems of Barret, Razor, and Quartz Creeks from their sources to their confluences with Tomichi Creek. Hot Springs Creek from its source to the inlet of Hot Springs Reservoir.								
COGUUG19	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation U	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150TVS	Chromium III(T)	50	---	
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
Expiration Date of 12/31/2024					Copper	TVS	TVS	
*Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		Inorganic (mg/L)			Iron	---	WS	
		acute	chronic	Iron(T)	---	1000		
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	
		20. Mainstem of Indian Creek, including all tributaries and wetlands, from the source to the confluence with Marshall Creek.						
		COGUUG20	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	7.6		
		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS	
Other:		pH	6.5 - 9.0	---	Chromium III(T)	---	100	
*Uranium(acute) = lowest practical level		chlorophyll a (mg/m²)	---	150TVS	Chromium VI	TVS	TVS	
*Uranium(chronic) = lowest practical level		E. coli (per 100 mL)	---	126	Copper	TVS	TVS	
					Iron(T)	---	1000	
		Inorganic (mg/L)			Lead	TVS	TVS	
		acute	chronic	Manganese	TVS	TVS		
		Ammonia	TVS	TVS	Mercury(T)	---	0.01	
		Boron	---	0.75	Molybdenum(T)	---	150	
		Chloride	---	---	Nickel	TVS	TVS	
		Chlorine	0.019	0.011	Selenium	TVS	TVS	
		Cyanide	0.005	---	Silver	TVS	TVS(tr)	
		Nitrate	100	---	Uranium	LPL*	LPL*	
		Nitrite	---	0.05	Zinc	TVS	TVS	
		Phosphorus	---	0.44TVS				
		Sulfate	---	---				
		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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

21. Mainstem of Marshall Creek, including all tributaries and wetlands, from the source to the confluence with Tomichi Creek, except for listings in Segment 20.							
COGUUG21	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation U	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
Uranium(chronic) = current condition*		Inorganic (mg/L)			Iron	---	WS
Expiration Date of 12/31/2025		acute	chronic	Iron(T)	---	1000	
*Uranium(acute) = See 35.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 35.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
*TempMod: Uranium = Mainstem of Marshall Creek from the confluence with Indian Creek to the confluence with Tomichi Creek. Adopted 6/12/2017.		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Uranium(T)	---	16.8-30 ^A
					Zinc	TVS	TVS
22. Mainstem of Gold Creek from Browns Gulch to the confluence with Quartz Creek.							
COGUUG22	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 35.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 35.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

23. Mainstem of Cochetopa Creek, including all tributaries and wetlands, from the source to a point immediately below the confluence with West Pass Creek with the exception of Segment 1.

COGUUG23	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation U	acute		chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
				acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.11 TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	

24. Mainstem of Cochetopa Creek from a point immediately below the confluence with West Pass Creek to the confluence with Tomichi Creek.

COGUUG24	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation U	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

25. The segments of the Gunnison River which interconnect Blue Mesa Reservoir, Morrow Point Reservoir, and Crystal Reservoir.							
COGUUG25	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	---TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
26. All tributaries, including wetlands, which are tributary to the Gunnison River from County Road 32 to the inlet of Blue Mesa Reservoir, Blue Mesa Reservoir, Morrow Point Reservoir, Crystal Reservoir, or the segments of the Gunnison River that interconnect those reservoirs, except for specific listings in Segments 1, 2, 29a, 29b, 30, 31, and 32.							
COGUUG26	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation U	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 35.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 35.5(4). *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	450±TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

26. All tributaries, including wetlands, which are tributary to the Gunnison River from County Road 32 to the inlet of Blue Mesa Reservoir, Blue Mesa Reservoir, Morrow Point Reservoir, Crystal Reservoir, or the segments of the Gunnison River that interconnect those reservoirs, except for specific listings in Segments 1, 2, 29a, 29b, 30, 31, and 32.							
COGUUG26	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation U	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150*TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 35.5(4).

*Phosphorus(chronic) = applies only above the facilities listed at 35.5(4).

*Uranium(acute) = See 35.5(3) for details.

*Uranium(chronic) = See 35.5(3) for details.

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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

27. Deleted.				
COGUUG27	Classifications	Physical and Biological		Metals (ug/L)
Designation		DM	MWAT	acute chronic
Qualifiers:		acute	chronic	
Other:		Inorganic (mg/L)		
		acute	chronic	
28. Deleted.				
COGUUG28	Classifications	Physical and Biological		Metals (ug/L)
		DM	MWAT	acute chronic
Qualifiers:		acute	chronic	
Other:		Inorganic (mg/L)		
		acute	chronic	

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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

29a. Mainstem of the Lake Fork of the Gunnison including all tributaries and wetlands, from the source to a point immediately above the confluence with Eaton Creek. Cebolla Creek, including all tributaries and wetlands, from the source to the Hinsdale/Gunnison County line. Powderhorn Creek, including all tributaries and wetlands, from the source to the confluence with Cebolla Creek. This segment excludes the specific listings in Segments 1, 29b, 30, 31, and 32.

COGUUG29A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150*TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*chlorophyll a (mg/m2)(chronic)= applies only above the facilities listed at 35.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 35.5(4). *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

29b. Mainstem of the Lake Fork of the Gunnison, including all tributaries and wetlands, from a point immediately above the confluence with Eaton Creek, to Blue Mesa Reservoir. Cebolla Creek, including all tributaries and wetlands, from the Hinsdale/Gunnison County line, to Blue Mesa Reservoir, excluding the listings in Segment 29a.

COGUUG29B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 35.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 35.5(4). *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	450*TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
					Iron	---	WS
					Iron(T)	---	1000
					Lead	TVS	TVS
					Lead(T)	50	---
					Manganese	TVS	TVS/WS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

30. Mainstem of Henson Creek, including all tributaries and wetlands, from the source to the confluence with the Lake Fork of the Gunnison, except for the specific listings in Segments 31 and 32.							
COGUUG30	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 35.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 35.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
31. Mainstem of Palmetto Gulch Creek, including all tributaries and wetlands.							
COGUUG31	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
UP	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	100	
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
*Uranium(acute) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III(T)	---	100
*Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (mg/m²)	---	150TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
		acute	chronic	Manganese	TVS	TVS	
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	TVS	TVS
		Phosphorus	---	0.44TVS			
		Sulfate	---	---			
		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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

32. North Fork of Henson Creek including all tributaries and wetlands, from its source to the confluence with Henson Creek, except for specific listings in Segment 1.							
COGUUG32	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
					Iron(T)	---	1000
					Lead	TVS	TVS
					Lead(T)	50	---
					Manganese	TVS	TVS/WS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS
33. All lakes and reservoirs that are tributary to the Gunnison River and within the La Garita, Powderhorn, West Elk, Collegiate Peaks, Maroon Bells, Raggeds, Fossil Ridge, or Uncompahgre Wilderness Areas.							
COGUUG33	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
OW	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (ug/L)	---	8±TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
					Iron(T)	---	1000
					Lead	TVS	TVS
					Lead(T)	50	---
					Manganese	TVS	TVS/WS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

33. All lakes and reservoirs that are tributary to the Gunnison River and within the La Garita, Powderhorn, West Elk, Collegiate Peaks, Maroon Bells, Raggeds, Fossil Ridge, or Uncompahgre Wilderness Areas.							
COGUUG33	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
OW	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (ug/L)	---	8*TVS	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	---	0.02	Nickel	TVS	TVS
		Nitrogen	---	TVS	Nickel(T)	---	100
		Phosphorus	---	0.025*TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

34. All lakes and reservoirs tributary to the Taylor River and the East River, from their sources to their confluence at the inception of the Gunnison River, excluding the listings in Segments 33, 35 and 37. This segment includes Meridian Lake, Nicholson Lake, Peanut Lake, Glazer Reservoir (38.874441, -106.999868), Lake Grant, Lily Pond, Pothole Reservoirs 1 and 2, Texas Lake, Mirror Lake, and Spring Creek Reservoir.

COGUUG34	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
	DUWS*	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (ug/L)	---	8*DUWS	Chromium III(T)	50	---
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Classification: DUWS applies to Glazer Reservoir only. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (ug/L)	---	TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS

35. All lakes and reservoirs tributary to Redwell Creek.

COGUUG35	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---	
	Recreation E	acute		chronic	Arsenic(T)	---	7.6	
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
<div>Other:</div> <div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 35.5(3) for details.</div> <div>*Uranium(chronic) = See 35.5(3) for details.</div>		D.O. (spawning)	---	7.0	Chromium III	---	TVS	
		pH	6.5 - 9.0	---	Chromium III(T)	---	100	
		chlorophyll a (ug/L)	---	8*TVS	Chromium VI	TVS	TVS	
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS	
					Iron(T)	---	1000	
		Inorganic (mg/L)			Lead	TVS	8	
				acute	chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01	
		Boron	---	0.75	Molybdenum(T)	---	150	
		Chloride	---	---	Nickel	TVS	TVS	
		Chlorine	0.019	0.011	Selenium	TVS	TVS	
		Cyanide	0.005	---	Silver	TVS	TVS	
		Nitrate	100	---	Uranium	varies*	varies*	
		Nitrite	---	0.05	Zinc	TVS	TVS	
		Nitrogen	---	TVS				
		Phosphorus	---	0.025*TVS				
		Sulfate	---	---				
		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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

36. All lakes and reservoirs tributary to the Gunnison River from its inception at the confluence of the Taylor and East Rivers, to the inlet of Blue Mesa Reservoir, excluding the listings in Segment 33. This segment includes Kenny Moore Reservoir, Hot Springs Reservoir, Needle Creek Reservoir, Vouga Reservoir, Moss Lake, Dome Lakes, and McDonough Reservoirs 1 and 2.

COGUUG36	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		<u>Nitrogen</u>	---	<u>TVS</u>	Selenium	TVS	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS	TVS
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS

37. All lakes and reservoirs tributary to Blue Mesa Reservoir, Morrow Point Reservoir, Crystal Reservoir or the segments of the Gunnison River that interconnect them, excluding the listings in Segments 33 and 38. This segment includes Fish Creek Reservoirs 1 and 2, Hampton Lake, High Park Lake, Watson Lake, Butte Lake, Swanson Lake, Fitzpatrick Lake, Evergreen Lake (38.325447, -107.365786), Dry Lake, Devils Lake, Powderhorn Lakes, Soderquist Reservoir, Rainbow Lake, Cataract Lake, Castle Lakes, Crystal Lake, and Waterdog Lake.

COGUUG37	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---	
	Recreation E	acute		chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
	DUWS*	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
		pH	6.5 - 9.0	---	Chromium III	---	TVS	
Qualifiers:		chlorophyll a (ug/L)		---	8*DUWS	Chromium III(T)	50	---
<div>Other:</div> <div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Classification: DUWS applies to Evergreen Lake only.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 35.5(3) for details.</div> <div>*Uranium(chronic) = See 35.5(3) for details.</div>		chlorophyll a (ug/L)		---	TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)		---	126	Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS	
		acute		chronic	Iron(T)	---	1000	
		Ammonia		TVS	TVS	Lead	TVS	TVS
		Boron		---	0.75	Lead(T)	50	---
		Chloride		---	250	Manganese	TVS	TVS/WS
		Chlorine		0.019	0.011	Mercury(T)	---	0.01
		Cyanide		0.005	---	Molybdenum(T)	---	150
		Nitrate		10	---	Nickel	TVS	TVS
		Nitrite		---	0.05	Nickel(T)	---	100
		Nitrogen		---	TVS	Selenium	TVS	TVS
		Phosphorus		---	0.025*TVS	Silver	TVS	TVS(tr)
		Sulfate		---	WS	Uranium	varies*	varies*
		Sulfide		---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

38. Lake San Cristobal, Taylor Park Reservoir, Blue Mesa Reservoir, Morrow Point Reservoir, Crystal Reservoir, and Silver Jack Reservoir.						
COGUUG38	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340
	Recreation E				Arsenic(T)	0.02
	Water Supply				Cadmium	TVS
Qualifiers: Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *chlorophyll a (ug/L)(Nitrogen)(chronic) = applies only above the facilities listed at 35.5(4), applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only above the facilities listed at 35.5(4), applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details. *Temperature = DM and MWAT=CLL from 1/1-3/31 Lake San Cristobal, Taylor Park Reservoir, Blue Mesa Reservoir DM=24.2 and MWAT=16.6 from 4/1-12/31 All others DM and MWAT=CLL from 4/1-12/31		D.O. (mg/L)	---	6.0	Cadmium(T)	5.0
		D.O. (spawning)	---	7.0	Chromium III	---
		pH	6.5 - 9.0	---	Chromium III(T)	50
		chlorophyll a (ug/L)	---	8*TVS	Chromium VI	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS
					Iron	---
					Iron(T)	1000
					Lead	TVS
					Lead(T)	50
					Manganese	TVS
					Mercury(T)	0.01
					Molybdenum(T)	150
					Nickel	TVS
					Nickel(T)	100
					Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	TVS
		Inorganic (mg/L)				
		acute	chronic			
		Ammonia	TVS	TVS		
		Boron	---	0.75		
		Chloride	---	250		
		Chlorine	0.019	0.011		
		Cyanide	0.005	---		
		Nitrate	10	---		
		Nitrite	---	0.05		
		Nitrogen	---	TVS*		
		Phosphorus	---	0.025TVS*		
		Sulfate	---	WS		
		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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

North Fork of the Gunnison River Basin

1. All tributaries to North Fork of the Gunnison River, including all wetlands, within the West Elk or Raggeds Wilderness Areas.							
COGUNF01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	---TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 35.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 35.5(3) for details.		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)
2. Mainstem of North Fork of the Gunnison River from its inception at the confluence of Muddy Creek and Anthracite Creek to the Black Bridge (41.75 Drive) above Paonia.							
COGUNF02	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	---TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 35.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 35.5(3) for details.		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

North Fork of the Gunnison River Basin

3. Mainstem of North Fork of the Gunnison River from the Black Bridge (41.75 Drive) above Paonia to the confluence with the Gunnison River.										
COGUNF03	Classifications			Physical and Biological			Metals (ug/L)			
Designation	Agriculture			DM	MWAT		acute	chronic		
Reviewable	Aq Life Cold 1			Temperature °C	varies*	varies* °C	Arsenic	340	---	
	Recreation E 4/1 - 9/30			acute	chronic	Arsenic(T)	---	0.02		
	Recreation P 10/1 - 3/31			D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
	Water Supply			D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Qualifiers:				pH	6.5 - 9.0	---	Chromium III	---	TVS	
Other:				chlorophyll a (mg/m²)	---	---TVS	Chromium III(T)	50	---	
Temporary Modification(s):				E. coli (per 100 mL)	4/1 - 9/30	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid				E. coli (per 100 mL)	10/1 - 3/31	---	205	Copper	TVS	TVS
Expiration Date of 12/31/2024				Inorganic (mg/L)			Iron	---	WS	
*Uranium(acute) = See 35.5(3) for details.				acute	chronic	Iron(T)	---	1000		
*Uranium(chronic) = See 35.5(3) for details.				Ammonia	TVS	TVS	Lead	TVS	TVS	
*Temperature =				Boron	---	0.75	Lead(T)	50	---	
DM and MWAT=CS-II from 11/16-3/15				Chloride	---	250	Manganese	TVS	TVS/WS	
DM=26.5 and MWAT=21.9 from 3/16-11/15				Chlorine	0.019	0.011	Mercury(T)	---	0.01	
See temperature assessment location at 35.6(6)				Cyanide	0.005	---	Molybdenum(T)	---	150	
				Nitrate	10	---	Nickel	TVS	TVS	
				Nitrite	---	0.05	Nickel(T)	---	100	
				Phosphorus	---	---	Selenium	TVS	TVS	
				Sulfate	---	WS	Silver	TVS	TVS(tr)	
				Sulfide	---	0.002	Uranium	varies*	varies*	
							Zinc	TVS	TVS	
4a. All tributaries and wetlands to Muddy Creek within national forest boundaries. Anthracite Creek, including all tributaries and wetlands, from the source to the confluence with Muddy Creek. All tributaries and wetlands to the North Fork of the Gunnison from its inception at the confluence of Muddy Creek and Anthracite Creek to the confluence with the Gunnison River within national forest boundaries. This segment excludes the listings in Segments 1 and 4c.										
COGUNF04A	Classifications			Physical and Biological			Metals (ug/L)			
Designation	Agriculture			DM	MWAT		acute	chronic		
Reviewable	Aq Life Cold 1			Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E			acute	chronic	Arsenic(T)	---	0.02		
	Water Supply			D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
				D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Qualifiers:				pH	6.5 - 9.0	---	Chromium III	---	TVS	
Other:				chlorophyll a (mg/m²)	---	450*TVS	Chromium III(T)	50	---	
Temporary Modification(s):				E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
Arsenic(chronic) = hybrid							Copper	TVS	TVS	
Expiration Date of 12/31/2024				Inorganic (mg/L)			Iron	---	WS	
*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 35.5(4).				acute	chronic	Iron(T)	---	1000		
*Phosphorus(chronic) = applies only above the facilities listed at 35.5(4).				Ammonia	TVS	TVS	Lead	TVS	TVS	
*Uranium(acute) = See 35.5(3) for details.				Boron	---	0.75	Lead(T)	50	---	
*Uranium(chronic) = See 35.5(3) for details.				Chloride	---	250	Manganese	TVS	TVS/WS	
				Chlorine	0.019	0.011	Mercury(T)	---	0.01	
				Cyanide	0.005	---	Molybdenum(T)	---	150	
				Nitrate	10	---	Nickel	TVS	TVS	
				Nitrite	---	0.05	Nickel(T)	---	100	
				Phosphorus	---	0.44TVS*	Selenium	TVS	TVS	
				Sulfate	---	WS	Silver	TVS	TVS(tr)	
				Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

North Fork of the Gunnison River Basin

4b. Muddy Creek, including all tributaries and wetlands, from the national forest boundary to the confluence with Anthracite Creek, except for the specific listings in Segment 1.							
COGUNF04B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
					Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)
		4c. All tributaries and wetlands to Lake Irwin from their sources to the inlet of Lake Irwin.					
COGUNF04C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	7.6	
	D.O. (mg/L)		---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Chromium III	---	TVS
Other:		pH	6.5 - 9.0	---	Chromium III(T)	50	---
*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 35.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 35.5(4). *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (mg/m²)	---	450 *TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
					Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	250	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	TVS	TVS/TVS(sc)
		Phosphorus	---	0.44 TVS*			
		Sulfate	---	---			
		Sulfide	---	0.002			

4c. All tributaries and wetlands to Lake Irwin from their sources to the inlet of Lake Irwin.								
COGUNF04C	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E		acute	chronic	Arsenic(T)	---	7.6	
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Other:		D.O. (spawning)	---	7.0	Chromium III	---	TVS	
<div>*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 35.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 35.5(4).</div> <div>*Uranium(acute) = See 35.5(3) for details.</div> <div>*Uranium(chronic) = See 35.5(3) for details.</div>		pH	6.5 - 9.0	---	Chromium III(T)	50	---	
		chlorophyll a (mg/m²)	---	150*TVS	Chromium VI	TVS	TVS	
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS	
					Iron(T)	---	1000	
			Inorganic (mg/L)		Lead	TVS	TVS	
				acute	chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01	
		Boron	---	0.75	Molybdenum(T)	---	150	
		Chloride	---	250	Nickel	TVS	TVS	
		Chlorine	0.019	0.011	Selenium	TVS	TVS	
		Cyanide	0.005	---	Silver	TVS	TVS(tr)	
		Nitrate	100	---	Uranium	varies*	varies*	
		Nitrite	---	0.05	Zinc	TVS	TVS/TVS(sc)	
		Phosphorus	---	0.44TVS*				
		Sulfate	---	---				
		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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

North Fork of the Gunnison River Basin

5a. Mainstems of Hubbard Creek, Terror Creek, and Minnesota Creek, from the national forest boundary to their confluences with the North Fork of the Gunnison River; mainstem of Jay Creek from its source to its confluence with the North Fork of the Gunnison River.

COGUNF05A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation P	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 35.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 35.5(3) for details.		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)

5b. Mainstem of Roatcap Creek, including all tributaries and wetlands, from the source to the confluence with the North Fork of the Gunnison. Leroux Creek from the national forest boundary to its confluence with the North Fork of the Gunnison River.

COGUNF05B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation P	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 35.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 35.5(3) for details.		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

North Fork of the Gunnison River Basin

6a. All tributaries, including wetlands, to the North Fork of the Gunnison River from its inception at the confluence of Muddy Creek and Anthracite Creek to the confluence with the Gunnison River, and not within national forest boundaries, except for the specific listings in Segments 5a, 5b, 6b, and 6c.

COGUNF06A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation P	acute		chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m ²)	---	150 TVS	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)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	100	---	Selenium	TVS	TVS
		Nitrite	---	0.05	Silver	TVS	TVS
		Phosphorus	---	0.17 TVS	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

6b. Mainstem of Bear Creek and Stevens Gulch, including all tributaries and wetlands. All tributaries and wetlands, to the North Fork of the Gunnison River that are north of the North Fork of the Gunnison River, from a point immediately above the confluence with Roatcap Creek to the confluence with the Gunnison River, and are not within national forest boundaries. All tributaries and wetlands to the North Fork of the Gunnison River that are south of the North Fork of the Gunnison River, from a point immediately above the confluence with Minnesota Creek to the confluence with the Gunnison River, and are not within national forest boundaries. This segment excludes the listings in Segments 5a and 5b.

COGUNF06B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Recreation P	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Water + Fish Standards		chlorophyll a (mg/m²)	---	150 TVS	Chromium III	---	TVS
Other:		E. coli (per 100 mL)	---	205	Chromium III(T)	50	---
Temporary Modification(s):		Inorganic (mg/L)			Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid		acute		chronic	Copper	TVS	TVS
Expiration Date of 12/31/2024		Ammonia	TVS	TVS	Iron	---	WS
*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 35.5(4).		Boron	---	0.75	Iron(T)	---	1000
*Phosphorus(chronic) = applies only above the facilities listed at 35.5(4).		Chloride	---	250	Lead	TVS	TVS
*Uranium(acute) = See 35.5(3) for details.		Chlorine	0.019	0.011	Lead(T)	50	---
*Uranium(chronic) = See 35.5(3) for details.		Cyanide	0.005	---	Manganese	TVS	TVS/WS
		Nitrate	10	---	Mercury(T)	---	0.01
		Nitrite	---	0.05	Molybdenum(T)	---	150
		Phosphorus	---	0.17 TVS*	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

North Fork of the Gunnison River Basin

6c. Thompson Creek from the Gunnison National Forest boundary to its confluence with the North Fork of the Gunnison River.							
COGUNF06C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation P	acute	chronic		Arsenic(T)	---	7.6
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (mg/m²)	---	150 TVS	Chromium III	TVS	TVS
		E. coli (per 100 mL)	---	205	Chromium III(T)	---	100
		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)	---	150
		Phosphorus	---	0.47 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
7. Paonia Reservoir and Overland Reservoir.							
COGUNF07	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CLL	CLL	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (ug/L)	---	8* TVS	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
		<u>Nitrogen</u>	---	- TVS	Nickel(T)	---	100
		Phosphorus	---	0.025* TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

7. Paonia Reservoir and Overland Reservoir.							
COGUNF07	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CLL	CLL	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
<div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 35.5(3) for details.</div> <div>*Uranium(chronic) = See 35.5(3) for details.</div>		chlorophyll a (ug/L)	---	8±TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
					Iron(T)	---	1000
					Lead	TVS	TVS
					Lead(T)	50	---
					Manganese	TVS	TVS/WS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	0.025±TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

North Fork of the Gunnison River Basin

8. All lakes and reservoirs that are tributary to the North Fork of the Gunnison River and within the West Elk or Raggeds Wilderness areas.						
COGUNF08	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
OW	Aq Life Cold 1	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Nitrogen	---	TVS	Nickel(T)	---
		Phosphorus	---	0.025*TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS
9. All lakes and reservoirs tributary to Muddy Creek, Paonia Reservoir, or Anthracite Creek. All lakes and reservoirs tributary to the North Fork of the Gunnison River from its inception at the confluence with Muddy Creek and Anthracite Creek to the confluence with the Gunnison River, and within national forest boundaries, excluding the specific listing in Segments 7 and 8. This segment includes Island Lake, Aspen Leaf Reservoir, Floating Lake, Tomahawk Reservoir, Dollar Lake, Lost Lake, Lost Lake Slough, Lake Irwin, Terror Creek Reservoir, Minnesota Reservoir, Beaver Reservoir, Lone Cabin Reservoir, Todd Reservoir, Holy Terror Reservoir (aka Eagle River Reservoir), Goodenough Reservoir, Dogfish Reservoir, Hilltop Reservoir, Willow Reservoir, Doughty Reservoir, Reynolds Reservoir, Hanson Reservoir, Bailey Reservoir, Owens Reservoir, Gray Reservoir, and Patterson Reservoirs.						
COGUNF09	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
*chlorophyll a (ug/L)(Nitrogen)(chronic) = applies only above the facilities listed at 35.5(4); applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only above the facilities listed at 35.5(4); applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Nitrogen	---	TVS*	Nickel(T)	---
		Phosphorus	---	0.025TVS*	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

North Fork of the Gunnison River Basin

10. All lakes and reservoirs tributary to Roatcap Creek and Jay Creek from their sources to their confluences with the North Fork of the Gunnison River. All lakes and reservoirs tributary to Hubbard Creek, Terror Creek, Minnesota Creek, or Leroux Creek, and are not within national forest boundaries.

COGUNF10	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	CL	CL	Arsenic	340	---
	Recreation P	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other: *Chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	205	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
				Iron	---	WS
				Iron(T)	---	1000
				Lead	TVS	TVS
				Lead(T)	50	---
				Manganese	TVS	TVS/WS
				Mercury(T)	---	0.01
				Molybdenum(T)	---	150
				Nickel	TVS	TVS
				Nickel(T)	---	100
				Selenium	TVS	TVS
				Silver	TVS	TVS(tr)
				Uranium	varies*	varies*
				Zinc	TVS	TVS

11. All lakes and reservoirs tributary to the North Fork of the Gunnison River from its inception at the confluence of Muddy Creek and Anthracite Creek to the confluence with the Gunnison River, and not within national forest boundaries, except for the specific listings in Segments 7, 9, and 10. This segment includes Roeber Reservoir.

COGUNF11	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Aq Life Warm 2	WL	WL	Arsenic	340	---
	Recreation P	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Water + Fish Standards Other: *Chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (ug/L)	---	20*TVS	Chromium III	---
		E. coli (per 100 mL)	---	205	Chromium III(T)	50
		Inorganic (mg/L)		Chromium VI	TVS	TVS
				Copper	TVS	TVS
				Iron	---	WS
				Iron(T)	---	1000
				Lead	TVS	TVS
				Lead(T)	50	---
				Manganese	TVS	TVS/WS
				Mercury(T)	---	0.01
				Molybdenum(T)	---	150
				Nickel	TVS	TVS
				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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Uncompahgre River Basin

1. All tributaries to the Uncompahgre River, including all wetlands, which are within the Mt. Sneffels or Uncompahgre Wilderness Areas.						
COGUUN01	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	TVS
Other:		chlorophyll a (mg/m²)	---	150TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
Temporary Modification(s):		Inorganic (mg/L)		Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---
Arsenic(chronic) = hybrid		Boron	---	0.75	Iron(T)	---
		Chloride	---	250	Lead	TVS
Expiration Date of 12/31/2024		Chlorine	0.019	0.011	Lead(T)	50
		Cyanide	0.005	---	Manganese	TVS
*Uranium(acute) = See 35.5(3) for details.		Nitrate	10	---	Manganese	TVS/WS
		Nitrite	---	0.05	Mercury(T)	---
*Uranium(chronic) = See 35.5(3) for details.		Phosphorus	---	0.14TVS	Mercury(T)	0.01
		Sulfate	---	WS	Molybdenum(T)	---
		Sulfide	---	0.002	Nickel	TVS
					Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	TVS
						TVS
2. Mainstem of the Uncompahgre River from the source (Poughkeepsie Gulch) to a point immediately above the confluence with Red Mountain Creek.						
COGUUN02	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation P	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	TVS
Other:		chlorophyll a (mg/m²)	---	150TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	205	Chromium VI	TVS
*Uranium(acute) = See 35.5(3) for details.		Inorganic (mg/L)		Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---
*Uranium(chronic) = See 35.5(3) for details.		Boron	---	0.75	Iron(T)	---
		Chloride	---	250	Lead	TVS
		Chlorine	0.019	0.011	Lead(T)	50
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Manganese	TVS/WS
		Nitrite	---	0.05	Mercury(T)	---
		Phosphorus	---	0.14TVS	Mercury(T)	0.01
		Sulfate	---	WS	Molybdenum(T)	---
		Sulfide	---	0.002	Nickel	TVS
					Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Uncompahgre River Basin

3a. Mainstem of the Uncompahgre River from a point immediately above the confluence with Red Mountain Creek to a point immediately above the confluence with Cascade Creek.							
COGUUN03A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	---TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 35.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 35.5(3) for details.		acute	chronic	Iron(T)	---	7438	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

3b. Mainstem of the Uncompahgre River from a point immediately above the confluence with Cascade Creek to a point immediately above the confluence with Dexter Creek.							
COGUUN03B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I*	CS-I*	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450*TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 35.5(4).		Inorganic (mg/L)			Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 35.5(4).		acute	chronic	Iron(T)	---	2971	
*Uranium(acute) = See 35.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 35.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
*Temperature = summer criteria apply from 6/1-10/15		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Uncompahgre River Basin

3c. Mainstem of the Uncompahgre River from a point immediately above the confluence with Dexter Creek to a point immediately below the confluence with Dallas Creek.							
COGUUN03C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450*TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 35.5(4).		Inorganic (mg/L)			Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 35.5(4).		acute	chronic		Iron(T)	---	1793
*Uranium(acute) = See 35.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 35.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
3d. Mainstem of the Uncompahgre River from a point immediately below the confluence with Dallas Creek to the inlet of Ridgway Reservoir.							
COGUUN03D	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 35.5(3) for details.		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
*Uranium(chronic) = See 35.5(3) for details.		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	2053
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

3d. Mainstem of the Uncompahgre River from a point immediately below the confluence with Dallas Creek to the inlet of Ridgway Reservoir.							
COGUUN03D	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	---TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
					Iron(T)	---	2053
					Lead	TVS	TVS
					Lead(T)	50	---
					Manganese	TVS	TVS/WS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Uncompahgre River Basin

3e. Mainstem of the Uncompahgre River from the outlet of Ridgway Reservoir to a point immediately above the outlet of the South Canal near Uncompahgre.							
COGUUN03E	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II*	CS-II* ^C	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 35.5(3) for details.		chlorophyll a (mg/m ²)	---	---TVS ⁻	Chromium III(T)	50	---
*Uranium(chronic) = See 35.5(3) for details.		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Temperature = summer criteria apply from 4/1-11/15					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
3f. Mainstem of the Uncompahgre River from a point immediately above the outlet of the South Canal to a point immediately above the Highway 90 bridge in Montrose.							
COGUUN03F	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	---TVS ⁻	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 35.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 35.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

3f. Mainstem of the Uncompahgre River from a point immediately above the outlet of the South Canal to a point immediately above the Highway 90 bridge in Montrose.							
COGUUN03F	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	---TVS -	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
			Inorganic (mg/L)		Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

*Uranium(acute) = See 35.5(3) for details.
*Uranium(chronic) = See 35.5(3) for details.

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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Uncompahgre River Basin

4a. Mainstem of the Uncompahgre River from the Highway 90 bridge at Montrose to Gunnison Road.

COGUUN04A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m ²)	---	--- TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute		chronic	Copper	TVS	TVS
*Uranium(acute) = See 35.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 35.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

4b. Mainstem of the Uncompahgre River from Gunnison Road to the upstream boundary of Confluence Park.

COGUUN04B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation P	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m ²)	---	---TVS-	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	205	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute		chronic	Copper	TVS	TVS
*Uranium(acute) = See 35.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 35.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Uncompahgre River Basin

4c. Mainstem of the Uncompahgre River from the upstream boundary of Confluence Park to the confluence with the Gunnison River.							
COGUUN04C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	---	100
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic		Iron(T)	---	1108
		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	---	0.5	Silver	TVS	TVS
		Phosphorus	---	---	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

5. All tributaries to the Uncompahgre River, including all wetlands, from the source to a point immediately below the confluence with Dexter Creek, except for specific listings in Segments 1, 6a, 6b, and 7 through 9.							
COGUUN05	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	TVS	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	---	TVS	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Uncompahgre River Basin

6a. Mainstem of Red Mountain Creek from the source to immediately above the confluence with the East Fork of Red Mountain Creek.								
COGUUN06A		Classifications		Physical and Biological		Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation N		acute	chronic	Arsenic(T)	---	100	
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS	
		pH	6.5 - 9.0	---	Chromium III(T)	---	100	
		chlorophyll a (mg/m²)	---	450 ---	Chromium VI	TVS	TVS	
		E. coli (per 100 mL)	---	630	Copper	TVS	TVS	
					Iron(T)	---	1000	
					Lead	TVS	TVS	
					Manganese	TVS	TVS	
					Mercury(T)	---	0.01	
					Molybdenum(T)	---	150	
					Nickel	TVS	TVS	
					Selenium	TVS	TVS	
					Silver	TVS	TVS	
					Uranium	varies*	varies*	
					Zinc	TVS	TVS	
		6b. Mainstem of Red Mountain Creek from immediately above the confluence with the East Fork of Red Mountain Creek to the confluence with the Uncompahgre River. All tributaries and wetlands to Red Mountain Creek within Corkscrew and Champion basins.						
COGUUN06B		Classifications		Physical and Biological		Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic	
UP	Recreation N				Arsenic	---	---	
Qualifiers:			acute	chronic	Cadmium	---	---	
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		D.O. (mg/L)	---	3.0	Chromium III	---	---	
		pH	ambient	---	Chromium VI	---	---	
		chlorophyll a (mg/m²)	---	---	Copper	---	---	
		E. coli (per 100 mL)	---	630	Iron	---	---	
					Lead	---	---	
					Manganese	---	---	
					Mercury(T)	---	---	
					Molybdenum(T)	---	---	
					Nickel	---	---	
					Selenium	---	---	
					Silver	---	---	
					Uranium	varies*	varies*	
					Zinc	---	---	

6b. Mainstem of Red Mountain Creek from immediately above the confluence with the East Fork of Red Mountain Creek to the confluence with the Uncompahgre River. All tributaries and wetlands to Red Mountain Creek within Corkscrew and Champion basins.

COGUUN06B	Classifications	Physical and Biological		Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Recreation N			Arsenic	---	---	
Qualifiers:		acute	chronic	Cadmium	---	---	
Other:		D.O. (mg/L)	---	3.0	Chromium III	---	---
*Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	ambient	---	Chromium VI	---	---
		chlorophyll a (mg/m²)	---	---	Copper	---	---
		E. coli (per 100 mL)	---	630	Iron	---	---
		Inorganic (mg/L)		Lead	---	---	
		acute	chronic	Manganese	---	---	
		Ammonia	---	---	Mercury(T)	---	---
		Boron	---	---	Molybdenum(T)	---	---
		Chloride	---	---	Nickel	---	---
		Chlorine	---	---	Selenium	---	---
		Cyanide	---	---	Silver	---	---
		Nitrate	---	---	Uranium	varies*	varies*
		Nitrite	---	---	Zinc	---	---
		Phosphorus	---	---			
		Sulfate	---	---			
		Sulfide	---	---			

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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Uncompahgre River Basin

7. Mainstem of Gray Copper Gulch from the source to the confluence with Red Mountain Creek.					
COGUUN07	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-I CS-I	Arsenic	340 ---
	Recreation P	acute	chronic	Arsenic(T)	--- 0.02-10 ^A
	Water Supply	D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS
Qualifiers:		D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---
Other:		pH	6.5 - 9.0 ---	Chromium III	--- TVS
		chlorophyll a (mg/m ²)	--- 150 TVS	Chromium III(T)	50 ---
*Uranium(acute) = See 35.5(3) for details.		E. coli (per 100 mL)	--- 205	Chromium VI	TVS TVS
*Uranium(chronic) = See 35.5(3) for details.				Copper	TVS TVS
		Inorganic (mg/L)		Iron	--- WS
		acute	chronic	Iron(T)	--- 2338
		Ammonia	TVS TVS	Lead	TVS TVS
		Boron	--- 0.75	Lead(T)	50 ---
		Chloride	--- 250	Manganese	TVS TVS/655
		Chlorine	0.019 0.011	Mercury(T)	--- 0.01
		Cyanide	0.005 ---	Molybdenum(T)	--- 150
		Nitrate	10 ---	Nickel	TVS TVS
		Nitrite	--- 0.05	Nickel(T)	--- 100
		Phosphorus	--- 0.14 TVS	Selenium	TVS TVS
		Sulfate	--- WS	Silver	TVS TVS(tr)
		Sulfide	--- 0.002	Uranium	varies* varies*
				Zinc	TVS TVS
8. Mainstem of Mineral Creek from the source to the confluence with the Uncompahgre River.					
COGUUN08	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-I CS-I	Arsenic	340 ---
	Recreation P	acute	chronic	Arsenic(T)	--- 0.02-10 ^A
	Water Supply	D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS
Qualifiers:		D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---
Other:		pH	6.5 - 9.0 ---	Chromium III	--- TVS
		chlorophyll a (mg/m ²)	--- 150 TVS	Chromium III(T)	50 ---
*Uranium(acute) = See 35.5(3) for details.		E. coli (per 100 mL)	--- 205	Chromium VI	TVS TVS
*Uranium(chronic) = See 35.5(3) for details.				Copper	--- 5
		Inorganic (mg/L)		Iron	--- WS
		acute	chronic	Iron(T)	--- 1000
		Ammonia	TVS TVS	Lead	--- 4
		Boron	--- 0.75	Lead(T)	50 ---
		Chloride	--- 250	Manganese	TVS TVS/WS
		Chlorine	0.019 0.011	Mercury(T)	--- 0.01
		Cyanide	0.005 ---	Molybdenum(T)	--- 150
		Nitrate	10 ---	Nickel	TVS TVS
		Nitrite	--- 0.05	Nickel(T)	--- 100
		Phosphorus	--- 0.14 TVS	Selenium	TVS TVS
		Sulfate	--- WS	Silver	TVS TVS(tr)
		Sulfide	--- 0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Uncompahgre River Basin

9. Mainstem of Imogene Creek from its source to its confluence with Sneffels Creek. Mainstem of Sneffels Creek, including all tributaries and wetlands, from a point 1.5 miles above its confluence with Imogene Creek at 37.974979, -107.753960 (WGS84) to its confluence with Imogene Creek. Mainstem of Canyon Creek from its inception at the confluence of Imogene Creek and Sneffels Creek to the confluence with the Uncompahgre River.

COGUUN09	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Cold 2 Recreation P	Temperature °C	CS-I	CS-I	Arsenic	340	---
Qualifiers: Fish Ingestion Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		acute	chronic		Arsenic(T)	---	7.6
		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m ²)	---	150TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	205	Copper	TVS	TVS
		Inorganic (mg/L)			Iron(T)	---	1000
		acute	chronic		Lead	TVS	TVS
		Ammonia	TVS	TVS	Manganese	TVS	TVS
		Boron	---	0.75	Mercury(T)	---	0.01
		Chloride	---	---	Molybdenum(T)	---	150
		Chlorine	0.019	0.011	Nickel	TVS	TVS
		Cyanide	0.005	---	Selenium	TVS	TVS
		Nitrate	100	---	Silver	TVS	TVS(tr)
		Nitrite	---	0.05	Uranium	varies*	varies*
		Phosphorus	---	0.11TVS	Zinc	TVS	TVS
		Sulfate	---	---			
		Sulfide	---	0.002			

10a. All tributaries to the Uncompahgre River, including all wetlands, from a point immediately below the confluence with Dexter Creek to the South Canal near Uncompahgre, except for specific listings in Segments 1, 10b, and 11.

COGUUN10A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Cold 1 Recreation P Water Supply	Temperature °C	CS-II	CS-II	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 35.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 35.5(4). *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(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*TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	205	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	---	0.11TVS*	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Uncompahgre River Basin

10b. Mainstem of Kettle Gulch from the road crossing at 38.101201, -107.75949 to the County Road 23 crossing.								
COGUUN10B		Classifications		Physical and Biological		Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---	
	Recreation P		acute	chronic	Arsenic(T)	---	7.6	
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Other: *chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 35.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 35.5(4). *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		D.O. (spawning)	---	7.0	Chromium III	---	TVS	
		pH	6.5 - 9.0	---	Chromium III(T)	50	---	
		chlorophyll a (mg/m²)	---	450*TVS	Chromium VI	TVS	TVS	
		E. coli (per 100 mL)	---	205	Copper	TVS	TVS	
					Iron(T)	---	1000	
			Inorganic (mg/L)		Lead	TVS	TVS	
				acute	chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01	
		Boron	---	0.75	Molybdenum(T)	---	150	
		Chloride	---	250	Nickel	TVS	TVS	
		Chlorine	0.019	0.011	Selenium	TVS	TVS	
		Cyanide	0.005	---	Silver	TVS	TVS(tr)	
		Nitrate	100	---	Uranium	varies*	varies*	
		Nitrite	---	0.05	Zinc	TVS	TVS/TVS(sc)	
		Phosphorus	---	0.44TVS*				
Sulfate	---	---						
Sulfide	---	0.002						
11. Mainstem of Coal Creek from the source to the Park Ditch. Mainstem of Dallas Creek from the source of the East and West Forks to the confluence with the Uncompahgre River. Mainstem of Cow Creek from the Uncompahgre Wilderness Area boundary to a point immediately below the confluence with Nate Creek. -All tributaries and wetlands to Cow Creek from the Uncompahgre Wilderness Area boundary to the confluence with the Uncompahgre River. Mainstems of Billy Creek, Onion Creek and Beaton Creek from the source to the confluence with the Uncompahgre River. Mainstem of Beaver Creek from the source to the confluence with the East Fork of Dallas Creek. Mainstem of Pleasant Valley Creek from the source to the confluence with Dallas Creek.								
COGUUN11		Classifications		Physical and Biological		Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation P		acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
			Inorganic (mg/L)		Iron	---	WS	
				acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
			Zinc	TVS	TVS			

11. Mainstem of Coal Creek from the source to the Park Ditch. Mainstem of Dallas Creek from the source of the East and West Forks to the confluence with the Uncompahgre River. Mainstem of Cow Creek from the Uncompahgre Wilderness Area boundary to a point immediately below the confluence with Nate Creek. -All tributaries and wetlands to Cow Creek from the Uncompahgre Wilderness Area boundary to the confluence with the Uncompahgre River. Mainstems of Billy Creek, Onion Creek and Beaton Creek from the source to the confluence with the Uncompahgre River. Mainstem of Beaver Creek from the source to the confluence with the East Fork of Dallas Creek. Mainstem of Pleasant Valley Creek from the source to the confluence with Dallas Creek.									
COGUUN11	Classifications	Physical and Biological			Metals (ug/L)				
Designation	Agriculture	DM	MWAT	acute	chronic				
Reviewable	Aq Life Cold 1	Temperature °C	CS-I CS-I	Arsenic	340	---			
	Recreation P	acute	chronic	Arsenic(T)	---	0.02			
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS TVS			
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---			
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS		
		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---		
		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS		
					Copper	TVS	TVS		
				Inorganic (mg/L)	Iron	---	WS		
				acute	chronic	Iron(T)	---	1000	
				Ammonia	TVS	TVS	Lead	TVS	TVS
				Boron	---	0.75	Lead(T)	50	---
				Chloride	---	250	Manganese	TVS	TVS/WS
				Chlorine	0.019	0.011	Mercury(T)	---	0.01
				Cyanide	0.005	---	Molybdenum(T)	---	150
				Nitrate	10	---	Nickel	TVS	TVS
				Nitrite	---	0.05	Nickel(T)	---	100
				Phosphorus	---	0.44TVS	Selenium	TVS	TVS
				Sulfate	---	WS	Silver	TVS	TVS(tr)
				Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Uncompahgre River Basin

12. All tributaries to the Uncompahgre River, including all wetlands, from the South Canal near Uncompahgre to the confluence with the Gunnison River, except for specific listings in Segments 13, 14, 15a and 15b.

COGUUN12	Classifications	Physical and Biological		Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Warm 1	Temperature °C	WS-II	Arsenic	340	---	
	Recreation P		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	150TVS	Chromium III	TVS	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	205	Chromium III(T)	---	100
Arsenic(chronic) = hybrid		Inorganic (mg/L)		Chromium VI	TVS	TVS	
Expiration Date of 12/31/2024			acute	chronic	Copper	TVS	TVS
*Uranium(acute) = See 35.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 35.5(3) for details.		Boron	---	0.75	Iron(T)	---	1400
		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)	---	150
		Phosphorus	---	0.17TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

13a. Mainstem of East Fork Dry Creek and Pryor Creek from their sources to the national forest boundary; West Fork Dry Creek from its source to its confluence with East Fork Dry Creek; mainstem of West Fork Spring Creek and Middle Spring Creek from their sources to their confluence, and mainstem of Mexican Gulch from the source to the Section line dividing Section 19 and 30, T49N, R9W.

COGUUN13A	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute		chronic	Arsenic(T)	---	7.6	
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS	
		pH	6.5 - 9.0	---	Chromium III(T)	---	100	
		chlorophyll a (mg/m²)	---	150 TVS	Chromium VI	TVS	TVS	
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS	
					Iron(T)	---	1000	
		Inorganic (mg/L)			Lead	TVS	TVS	
				acute	chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01	
		Boron	---	0.75	Molybdenum(T)	---	150	
		Chloride	---	---	Nickel	TVS	TVS	
		Chlorine	0.019	0.011	Selenium	TVS	TVS	
		Cyanide	0.005	---	Silver	TVS	TVS(tr)	
		Nitrate	100	---	Uranium	varies*	varies*	
		Nitrite	---	0.05	Zinc	TVS	TVS	
		Phosphorus	---	0.14 TVS				
		Sulfate	---	---				
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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Uncompahgre River Basin

13b. Mainstem of East Fork Dry Creek from the national forest boundary to its confluence with West Fork Dry Creek. Pryor Creek from the national forest boundary to its confluence with East Fork Dry Creek. Mainstem of Spring Creek from the source to a point immediately below the confluence with Devinny Canyon.

COGUUN13B	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1 Recreation E	Temperature °C	CS-II CS-II	Arsenic	340 ---
Qualifiers:	Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.	acute	chronic	Arsenic(T)	--- 7.6
		D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS
		D.O. (spawning)	--- 7.0	Chromium III	TVS TVS
		pH	6.5 - 9.0 ---	Chromium III(T)	--- 100
		chlorophyll a (mg/m²)	--- 150 TVS	Chromium VI	TVS TVS
		E. coli (per 100 mL)	--- 126	Copper	TVS TVS
		Inorganic (mg/L)		Iron(T)	--- 1000
		acute	chronic	Lead	TVS TVS
		Ammonia	TVS TVS	Manganese	TVS TVS
		Boron	--- 0.75	Mercury(T)	--- 0.01
		Chloride	--- ---	Molybdenum(T)	--- 150
		Chlorine	0.019 0.011	Nickel	TVS TVS
		Cyanide	0.005 ---	Selenium	TVS TVS
		Nitrate	100 ---	Silver	TVS TVS(tr)
		Nitrite	--- 0.05	Uranium	varies* varies*
		Phosphorus	--- 0.11 TVS	Zinc	TVS TVS
		Sulfate	--- ---		
		Sulfide	--- 0.002		

13c. Mainstem of Spring Creek from a point immediately below the confluence with Devinny Canyon to Popular Road at the mouth of Spring Canyon.

COGUUN13C	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:	Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(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 TVS
		chlorophyll a (mg/m²)	--- 150 TVS	Chromium III(T)	--- 100
		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 TVS	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Uncompahgre River Basin

14. East and West Forks of Horsefly Creek, including all tributaries and wetlands, from their sources to a point immediately above their confluence. Happy Canyon Creek, including all tributaries and wetlands, from the source to the most downstream national forest boundary.

COGUUN14	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation P	acute	chronic		Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
	*Uranium(acute) = See 35.5(3) for details.	chlorophyll a (mg/m²)	---	450 TVS	Chromium VI	TVS	TVS
	*Uranium(chronic) = See 35.5(3) for details.	E. coli (per 100 mL)	---	205	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
		acute	chronic		Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.5	Zinc	TVS	TVS
		Phosphorus	---	0.44 TVS			
		Sulfate	---	---			
		Sulfide	---	0.002			

15a. Mainstem of Happy Canyon from a point immediately below the West Canal to the confluence with the Uncompahgre River; mainstem of Horsefly Creek from a point immediately below the confluence with Wildcat Canyon to the confluence with the Uncompahgre River.

COGUUN15A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation P	acute		chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m²)	---	450 TVS	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)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	100	---	Selenium	TVS	TVS
		Nitrite	---	0.5	Silver	TVS	TVS
		Phosphorus	---	0.47 TVS	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Uncompahgre River Basin

15b. Mainstem of Dry Creek from the confluence of the East and West Forks to immediately above the confluence with Coalbank Canyon Creek.

COGUUN15B	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute		chronic	
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---	
	Recreation E	acute		chronic	Arsenic(T)	---	100	
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS	
		pH	6.5 - 9.0	---	Chromium III(T)	---	100	
		chlorophyll a (mg/m²)	---	450 TVS	Chromium VI	TVS	TVS	
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS	
					Iron(T)	---	1000	
		Inorganic (mg/L)			Lead	TVS	TVS	
				acute	chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01	
		Boron	---	0.75	Molybdenum(T)	---	150	
		Chloride	---	---	Nickel	TVS	TVS	
		Chlorine	0.019	0.011	Selenium	TVS	TVS	
		Cyanide	0.005	---	Silver	TVS	TVS(tr)	
		Nitrate	100	---	Uranium	varies*	varies*	
		Nitrite	---	0.5	Zinc	TVS	TVS	
		Phosphorus	---	0.44 TVS				
		Sulfate	---	---				
Sulfide	---	0.002						

16. All lakes and reservoirs tributary to the Uncompahgre River and within the Mt. Sneffels or Uncompahgre Wilderness Areas.

COGUUN16	Classifications	Physical and Biological		Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic		
OW	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
<div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 35.5(3) for details.</div> <div>*Uranium(chronic) = See 35.5(3) for details.</div>		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)		Iron	---	WS	
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/50
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Uncompahgre River Basin

17. All lakes and reservoirs tributary to the Uncompahgre River from the source to a point immediately below the confluence with Dexter Creek, except for listings in Segment 16. This segment includes Lake Como, Ptarmigan Lake, Crystal Lake, and Lake Lenore.

COGUUN17	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other: *Chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
				Iron	---	WS
				Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Nitrogen	---	TVS	Selenium	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS
		Sulfate	---	WS	Uranium	varies*
		Sulfide	---	0.002	Zinc	TVS

18. All lakes and reservoirs tributary to the Uncompahgre River from a point immediately below the confluence with Dexter Creek to a point immediately below the South Canal near Uncompahgre, excluding the listings in Segment 16 and 19. All lakes and reservoirs tributary to the East Fork of Dry Creek or the West Fork of Dry Creek from their sources to their confluence. This segment includes Black Lake, Blue Lakes, Ulah Brown Spring, Lake Otonawanda, West Lake, Dry Lake, Elephant Reservoir, Buckhorn Lakes, Silesca Pond and Olathe Reservoirs 1 and 2.

COGUUN18	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	CL	CL	Arsenic	340	---
	Recreation P	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
	DUWS*	D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---
Other: *Chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Classification: DUWS applies to Lake Otonawanda only. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (ug/L)	---	8*DUWS	Chromium III(T)	50
		chlorophyll a (ug/L)	---	TVS	Chromium VI	TVS
		E. coli (per 100 mL)	---	205	Copper	TVS
		Inorganic (mg/L)		Iron	---	WS
				Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Nitrogen	---	TVS	Selenium	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS
		Sulfate	---	WS	Uranium	varies*
		Sulfide	---	0.002	Zinc	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Uncompahgre River Basin

19. Ridgway Reservoir.						
COGUUN19	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1 Recreation E	CLL	CLL	Arsenic	340	---
Qualifiers:	<u>Public Swim Beach*</u>	acute	chronic	Arsenic(T)	---	7.6
		D.O. (mg/L)	---	6.0	Cadmium	TVS
Other:	<u>*Public Swim Beach applies to Ridgway Reservoir.</u>	D.O. (spawning)	---	7.0	Chromium III	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---
	<u>*Uranium(acute) = See 35.5(3) for details.</u>	chlorophyll a (ug/L)	---	TVS	Chromium VI	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS
	<u>*Uranium(chronic) = See 35.5(3) for details.</u>	Inorganic (mg/L)		Iron(T)	---	1000
		acute	chronic	Lead	TVS	TVS
		Ammonia	TVS	TVS	Manganese	TVS
		Boron	---	0.75	Mercury(T)	---
		Chloride	---	---	Molybdenum(T)	---
		Chlorine	0.019	0.011	Nickel	TVS
		Cyanide	0.005	---	Selenium	TVS
		Nitrate	100	---	Silver	TVS
		Nitrite	---	0.05	Uranium	varies*
		<u>Nitrogen</u>	---	TVS	Zinc	TVS
		Phosphorus	---	TVS		
		Sulfate	---	---		
		Sulfide	---	0.002		

20. Sweitzer Lake (a.k.a. Garnet Mesa Reservoir).						
COGUUN20	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 1 Recreation E	WL	WL	Arsenic	340	---
Qualifiers:		acute	chronic	Arsenic(T)	---	7.6
		D.O. (mg/L)	---	5.0	Cadmium	TVS
Other:		pH	6.5 - 9.0	---	Chromium III	TVS
		chlorophyll a (ug/L)	---	20*TVS	Chromium III(T)	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Manganese	TVS
		Chloride	---	---	Mercury(T)	---
		Chlorine	0.019	0.011	Molybdenum(T)	---
		Cyanide	0.005	---	Nickel	TVS
		Nitrate	100	---	Selenium	TVS
		Nitrite	---	0.5	Silver	TVS
		<u>Nitrogen</u>	---	TVS	Uranium	varies*
		Phosphorus	---	0.083*TVS	Zinc	TVS
		Sulfate	---	---		
		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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Uncompahgre River Basin

21. All lakes and reservoirs tributary to the Uncompahgre River from a point immediately below the South Canal near Uncompahgre to the confluence with the Gunnison River, excluding the listings in Segments 18, 20, and 22.								
COGUUN21	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT		acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---	
	Recreation P		acute	chronic	Arsenic(T)	---	7.6	
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
Fish Ingestion		pH	6.5 - 9.0	---	Chromium III	TVS	TVS	
Other:		chlorophyll a (ug/L)	---	20*TVS	Chromium III(T)	---	100	
<div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 35.5(3) for details.</div> <div>*Uranium(chronic) = See 35.5(3) for details.</div>		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)	---	150
		Cyanide	0.005	---		Nickel	TVS	TVS
		Nitrate	100	---		Selenium	TVS	TVS
		Nitrite	---	0.05		Silver	TVS	TVS
		Nitrogen	---	TVS		Uranium	varies*	varies*
		Phosphorus	---	0.083*TVS		Zinc	TVS	TVS
		Sulfate	---	---				
		Sulfide	---	0.002				
		22. Fairview Reservoir.						
COGUUN22	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT		acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---	
	Recreation P		acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
	DUWS*	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
Qualifiers:		chlorophyll a (ug/L)	---	20*DUWS	Chromium III	TVS	TVS	
Other:		chlorophyll a (ug/L)	---	TVS	Chromium III(T)	---	100	
<div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Classification: DUWS applies to Fairview Reservoir only.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 35.5(3) for details.</div> <div>*Uranium(chronic) = See 35.5(3) for details.</div>		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)				Iron	---	WS
			acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS		Lead	TVS	TVS
		Boron	---	0.75		Lead(T)	50	---
		Chloride	---	250		Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011		Mercury(T)	---	0.01
		Cyanide	0.005	---		Molybdenum(T)	---	150
		Nitrate	10	---		Nickel	TVS	TVS
		Nitrite	---	0.05		Nickel(T)	---	100
		Nitrogen	---	TVS		Selenium	TVS	TVS
		Phosphorus	---	0.083*TVS		Silver	TVS	TVS
		Sulfate	---	WS		Uranium	varies*	varies*
		Sulfide	---	0.002		Zinc	TVS	TVS

22. Fairview Reservoir.							
COGUUN22	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation P		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
	DUWS*	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
		chlorophyll a (ug/L)	---	20*DUWS	Chromium III	TVS	TVS
Qualifiers:					chlorophyll a (ug/L)	---	TVS
Other:					E. coli (per 100 mL)	---	205
<div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Classification: DUWS applies to Fairview Reservoir only.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 35.5(3) for details.</div> <div>*Uranium(chronic) = See 35.5(3) for details.</div>							
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	0.083*TVS	Silver	TVS	TVS
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Gunnison Basin

1. Mainstem of the Gunnison River from the outlet of Crystal Reservoir to Highway 65 (38.772574, -108.002634).							
COGULG01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	---TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 35.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 35.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)
2. Mainstem of the Gunnison River from Highway 65 (38.772574, -108.002634) to the confluence with the Colorado River.							
COGULG02	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	---TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS	TVS	
*Uranium(acute) = See 35.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 35.5(3) for details.		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)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	480	Nickel(T)	---	100
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Gunnison Basin

3a. All tributaries to the Gunnison River, including all wetlands, which are within national forest boundaries, from the outlet of Crystal Reservoir to the confluence with the Colorado River, except for specific listings in the North Fork Gunnison River sub-basin, Uncompahgre River sub-basins, and Segments 3b, 10, 11a, 11b, and 12.

COGULG03A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
	Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
*Uranium(acute) = See 35.5(3) for details.			acute	chronic	Iron(T)	---	1000
*Uranium(chronic) = See 35.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

3b. Mainstem of Big Dominguez Creek, Little Dominguez Creek, Escalante Creek, Potter Creek, and Roubideau Creek, including all tributaries and wetlands, within the boundaries of the Uncompahgre National Forest.

COGULG03B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Gunnison Basin

4a. All tributaries to the Gunnison River, including all wetlands which are not within national forest boundaries, from the outlet of Crystal Reservoir to the confluence with the Colorado River, except for specific listings in the North Fork of the Gunnison River sub-basin, the Uncompahgre River sub-basin, and in Segments 3a, 3b, 4b, 4c, 5a, 5b, 5c, 6a, 6b, 6c, 7, 8a, 8b, 10 and 12.

COGULG04A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation P	acute		chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: *chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 35.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 35.5(4). *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (mg/m ²)	---	150 ^{*TVS}	Chromium III	---	TVS
		E. coli (per 100 mL)	---	205	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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.17 ^{TVS*}	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

4b. All tributaries and wetlands to Reeder, Hollenbeck, and Juniata Reservoirs, and the mainstem of Kannah Creek below the point of diversion for public water supply (38.961321, -108.229830).

COGULG04B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (mg/m²)	---	150 TVS	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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.17 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Gunnison Basin

4c. Mainstem of Red Rock Creek from the boundary of Black Canyon of the Gunnison National Park to the confluence of the Gunnison River.								
COGULG04C	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02-10	^A	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (mg/m²)	---	150 TVS	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	---	0.5	Molybdenum(T)	---	150	
		Phosphorus	---	0.47 TVS	Nickel	TVS	TVS	
		Sulfate	---	WS	Nickel(T)	---	100	
		Sulfide	---	0.002	Selenium	TVS	TVS	
					Silver	TVS	TVS	
					Uranium	varies*	varies*	
					Zinc	TVS	TVS	
		5a. Mainstem of North Fork Escalante Creek from the national forest boundary to the confluence with Escalante Creek.						
		COGULG05A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
		acute	chronic	Iron(T)	---	1000		
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	TVS	varies*	
					Uranium(T)	---	16.8-30	^A
					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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Gunnison Basin

5b. Mainstem of Roubideau Creek from the national forest boundary to a point immediately above the confluence with Potter Creek. Mainstem of Monitor Creek from the national forest boundary to the confluence with Potter Creek. Mainstem of Potter Creek from immediately below Monitor Creek to the confluence with Roubideau Creek.						
COGULG05B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
OW	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Other: *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (mg/m ²)	---	450TVS	Chromium III	---
		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	---
		Boron	---	0.75	Iron(T)	---
		Chloride	---	250	Lead	TVS
		Chlorine	0.019	0.011	Lead(T)	50
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	---	0.05	Molybdenum(T)	---
		Phosphorus	---	0.47TVS	Nickel	TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
				Silver	TVS	TVS
				Uranium	TVS	varies*
				Uranium(T)	---	16.8-30 ^A
				Zinc	TVS	TVS
5c. All tributaries and wetlands to Roubideau Creek from the national forest boundary to a point immediately below the confluence with Potter Creek, excluding the portion of the mainstems of Potter Creek and Monitor Creek in Segment 5b. All tributaries and wetlands to Escalante Creek from the national forest boundary to the Delta/Montrose County line (38.668215, -108.328144), excluding listings in Segment 5a. All tributaries and wetlands to Little Dominguez Creek from the national forest boundary to the confluence with Big Dominguez Creek. All tributaries and wetlands to Big Dominguez Creek from the national forest boundary to the confluence with the Gunnison River.						
COGULG05C	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
OW	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340
	Recreation P	acute	chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (mg/m ²)	---	450TVS	Chromium III	---
		E. coli (per 100 mL)	---	205	Chromium III(T)	50
		Inorganic (mg/L)		Chromium VI	TVS	TVS
		acute	chronic	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---
		Boron	---	0.75	Iron(T)	---
		Chloride	---	250	Lead	TVS
		Chlorine	0.019	0.011	Lead(T)	50
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	---	0.5	Molybdenum(T)	---
		Phosphorus	---	0.47TVS	Nickel	TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Gunnison Basin

6a. Mainstem of Escalante Creek from the national forest boundary to the Delta/Montrose County line (38.668215, -108.328144); mainstem of Little Dominguez from the national forest boundary to Big Dominguez Creek; mainstem of Big Dominguez from the national forest boundary to the Gunnison River.						
COGULG06A	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
OW	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS
Other:		D.O. (spawning)	---	7.0	Chromium III	TVS
<p>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 35.5(4).</p> <p>*Phosphorus(chronic) = applies only above the facilities listed at 35.5(4).</p> <p>*Uranium(chronic) = See 35.5(3) for details.</p>		pH	6.5 - 9.0	---	Chromium III(T)	100
		chlorophyll a (mg/m ²)	---	450*TVS	Chromium VI	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS
		Inorganic (mg/L)		Iron(T)	---	1000
		acute	chronic	Lead	TVS	TVS
		Ammonia	TVS	TVS	Manganese	TVS
		Boron	---	0.75	Mercury(T)	---
		Chloride	---	---	Molybdenum(T)	150
		Chlorine	0.019	0.011	Nickel	TVS
		Cyanide	0.005	---	Selenium	TVS
		Nitrate	100	---	Silver	TVS
		Nitrite	---	0.05	Uranium	TVS
		Phosphorus	---	0.14TVS*	Uranium(T)	16.8-30 ^A
		Sulfate	---	---	Zinc	TVS
		Sulfide	---	0.002		
6b. Mainstem of Roubideau Creek from Potter Creek to the Gunnison River. Mainstem of East Creek from the source to the Gunnison River.						
COGULG06B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS
Other:		pH	6.5 - 9.0	---	Chromium III	TVS
<p>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 35.5(4).</p> <p>*Phosphorus(chronic) = applies only above the facilities listed at 35.5(4).</p> <p>*Uranium(chronic) = See 35.5(3) for details.</p>		chlorophyll a (mg/m ²)	---	450*TVS	Chromium III(T)	100
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Manganese	TVS
		Chloride	---	---	Mercury(T)	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	150
		Cyanide	0.005	---	Nickel	TVS
		Nitrate	100	---	Selenium	TVS
		Nitrite	---	0.05	Silver	TVS
		Phosphorus	---	0.17TVS*	Uranium	varies*
		Sulfate	---	---	Uranium(T)	16.8-30 ^A
		Sulfide	---	0.002	Zinc	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Gunnison Basin

6c. Mainstem of Escalante Creek from the Delta/Montrose County line (38.668215, -108.328144) to the Gunnison River.								
COGULG06C	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
Other:	*Uranium(chronic) = See 35.5(3) for details.	chlorophyll a (mg/m²)	---	450 TVS	Chromium III	TVS	TVS	
		E. coli (per 100 mL)	---	126	Chromium III(T)	---	100	
		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)	---	150	
		Phosphorus	---	0.47 TVS	Nickel	TVS	TVS	
		Sulfate	---	WS	Nickel(T)	---	100	
		Sulfide	---	0.002	Selenium	TVS	TVS	
					Silver	TVS	TVS	
					Uranium	TVS	varies*	
					Uranium(T)	---	16.8-30 ^A	
					Zinc	TVS	TVS	
		7a. Mainstem of Ward Creek, from the national forest boundary to the confluence with Dirty George Creek.						
		COGULG07A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation P	acute	chronic	Arsenic(T)	---	0.02-10 ^A		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other:	*Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.	pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	205	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	---	0.44 TVS	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Gunnison Basin

7b. Mainstem of Surface Creek from the point of diversion of water supply (38.965216, -107.876031) to the confluence with Tongue Creek; mainstem of Tongue Creek from its inception at the confluence of Ward Creek and Dirty George Creek to the confluence with the Gunnison River; mainstem of Youngs Creek from the national forest boundary to the confluence with Kiser Creek; mainstem of Kiser Creek from the national forest boundary to the confluence with Ward Creek.

COGULG07B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation P	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150*TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Copper	TVS	TVS
*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 35.5(4).		acute		chronic	Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 35.5(4).		Ammonia	TVS	TVS	Iron(T)	---	1000
*Uranium(acute) = See 35.5(3) for details.		Boron	---	0.75	Lead	TVS	TVS
*Uranium(chronic) = See 35.5(3) for details.		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	---	0.11TVS*	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)

8a. Mainstem of Surface Creek, including all tributaries and wetlands, from the national forest boundary to the point of diversion for public water supply (38.965216, -107.876031).

COGULG08A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Copper	TVS	TVS
*Uranium(acute) = See 35.5(3) for details.		acute		chronic	Iron	---	WS
*Uranium(chronic) = See 35.5(3) for details.		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	---	0.11TVS	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Gunnison Basin

8b. Mainstem of Kannah Creek, including all tributaries and wetlands, from the national forest boundary to the point of diversion for public water supply (38.961321, -108.229830).											
COGULG08B		Classifications		Physical and Biological			Metals (ug/L)				
Designation	Agriculture			DM	MWAT	acute		chronic			
Reviewable	Aq Life Cold 1			Temperature °C	CS-II	CS-II	Arsenic	340	---		
	Recreation E			acute	chronic	Arsenic(T)	---	0.02			
	Water Supply			D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS		
Qualifiers:				D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---		
Other:				pH	6.5 - 9.0	---	Chromium III	---	TVS		
*Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.				chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---		
				E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS		
							Copper	TVS	TVS		
				Inorganic (mg/L)			Iron	---	WS		
							acute	chronic	Iron(T)	---	1000
				Ammonia			TVS	TVS	Lead	TVS	TVS
				Boron			---	0.75	Lead(T)	50	---
				Chloride			---	250	Manganese	TVS	TVS/WS
				Chlorine			0.019	0.011	Mercury(T)	---	0.01
				Cyanide			0.005	---	Molybdenum(T)	---	150
				Nitrate			10	---	Nickel	TVS	TVS
				Nitrite			---	0.05	Nickel(T)	---	100
				Phosphorus			---	0.14 TVS	Selenium	TVS	TVS
				Sulfate			---	WS	Silver	TVS	TVS(tr)
				Sulfide			---	0.002	Uranium	varies*	varies*
									Zinc	TVS	TVS/TVS(sc)
				9. Fruitgrowers Reservoir.							
COGULG09		Classifications		Physical and Biological			Metals (ug/L)				
Designation	Agriculture			DM	MWAT	acute		chronic			
UP	Aq Life Warm 2			Temperature °C	WL	WL	Arsenic	340	---		
	Recreation E 4/1 - 10/31			acute	chronic	Arsenic(T)	---	7.6			
	Recreation P 11/1 - 3/31			D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS		
Qualifiers:				pH	6.5 - 9.0	---	Chromium III	TVS	TVS		
Fish Ingestion				chlorophyll a (ug/L)	---	--- TVS	Chromium III(T)	---	100		
*Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.				E. coli (per 100 mL) 4/1 - 10/31	---	126	Chromium VI	TVS	TVS		
				E. coli (per 100 mL) 11/1 - 3/31	---	205	Copper	TVS	TVS		
							Iron(T)	---	1000		
				Inorganic (mg/L)			Lead	TVS	TVS		
							acute	chronic	Manganese	TVS	TVS
				Ammonia			TVS	TVS	Mercury(T)	---	0.01
				Boron			---	0.75	Molybdenum(T)	---	150
				Chloride			---	---	Nickel	TVS	TVS
				Chlorine			0.019	0.011	Selenium	TVS	TVS
				Cyanide			0.005	---	Silver	TVS	TVS
				Nitrate			100	---	Uranium	varies*	varies*
				Nitrite			---	0.05	Zinc	TVS	TVS
				Phosphorus			---	---			
				Sulfate			---	---			
				Sulfide			---	0.002			

9. Fruitgrowers Reservoir.									
COGULG09	Classifications		Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT		acute	chronic		
UP	Aq Life Warm 2		Temperature °C	WL	WL	Arsenic	340	---	
	Recreation E	4/1 - 10/31	acute	chronic		Arsenic(T)	---	7.6	
	Recreation P	11/1 - 3/31	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
Qualifiers:			pH	6.5 - 9.0	---	Chromium III	TVS	TVS	
Fish Ingestion			chlorophyll a (ug/L)	---	TVS	Chromium III(T)	---	100	
Other:			E. coli (per 100 mL)	4/1 - 10/31	---	126	Chromium VI	TVS	TVS
			E. coli (per 100 mL)	11/1 - 3/31	---	205	Copper	TVS	TVS
							Iron(T)	---	1000
							Lead	TVS	TVS
							Manganese	TVS	TVS
							Mercury(T)	---	0.01
							Molybdenum(T)	---	150
							Nickel	TVS	TVS
							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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Gunnison Basin

10. Mainstem of the Smith Fork from the confluence of the North Smith Fork and South Smith Fork to the confluence with the Gunnison River.							
COGULG10	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
					Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)
11a. All tributaries to the Smith Fork, including all wetlands, which are within national forest boundaries except for specific listings in Segment 11b; Doug Creek from the source to the confluence with Muddy Creek.							
COGULG11A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
					Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Gunnison Basin

11b. All tributaries to the Smith Fork, including all wetlands, which are within the West Elk Wilderness Area.						
COGULG11B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
Water Supply		D.O. (mg/L)	---	6.0	Cadmium	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---
Other:		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
*Uranium(acute) = See 35.5(3) for details.	*Uranium(chronic) = See 35.5(3) for details.	Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
Ammonia		TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	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		---	0.14TVS	Nickel(T)	---	100
Sulfate		---	WS	Selenium	TVS	TVS
Sulfide		---	0.002	Silver	TVS	TVS(tr)
				Uranium	varies*	varies*
				Zinc	TVS	TVS

12. All tributaries to the Smith Fork, including all wetlands, which are not within national forest boundaries, except for the specific listing in Segment 11a.						
COGULG12	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340
	Recreation P	acute	chronic	Arsenic(T)	---	0.02-10 A
Water Supply		D.O. (mg/L)	---	5.0	Cadmium	TVS
		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Qualifiers:		chlorophyll a (mg/m ²)	---	450TVS	Chromium III	---
Other:		E. coli (per 100 mL)	---	205	Chromium III(T)	50
		Inorganic (mg/L)		Chromium VI	TVS	TVS
Ammonia		acute	chronic	Copper	TVS	TVS
		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)	---	150
Phosphorus		---	0.17TVS	Nickel	TVS	TVS
Sulfate		---	WS	Nickel(T)	---	100
Sulfide		---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Gunnison Basin

13. Crawford Reservoir.							
COGULG13	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	7.6	
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other:	pH6.5 - 9.0 chlorophyll a (ug/L)---20*TVS E. coli (per 100 mL)---126 Inorganic (mg/L) acutechronic AmmoniaTVS TVS Boron---0.75 Chloride--- Chlorine0.0190.011 Cyanide0.005--- Nitrate100--- Nitrite---0.05 Nitrogen--- - TVS Phosphorus---0.083*TVS Sulfate--- Sulfide---0.002				Chromium III	TVS	TVS
					Chromium III(T)	---	100
					Chromium VI	TVS	TVS
					Copper	TVS	TVS
					Iron(T)	---	1000
					Lead	TVS	TVS
					Manganese	TVS	TVS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
		14. All lakes and reservoirs tributary to the Gunnison River, from the outlet of Crystal Reservoir to the confluence with the Colorado River, and within national forest boundaries, excluding listings in the North Fork of the Gunnison River sub-basin, the Uncompahgre River sub-basin, and Segments 15, 17 and 18. This segment includes Trickle Reservoir, Hale Reservoir, Marcott Park Reservoir, Cherry Lane Reservoir, Cole Reservoirs, Cedar Mesa Reservoir, Kehmeier Reservoir, Weir and Johnson Reservoir, Bonita Reservoir, Blanche Park Reservoir, Vela Reservoir, Knox Reservoir, Military Park Reservoir, Eureka Park Reservoir, Carbonate Park Reservoirs, Prebble Reservoir, Youngs Creek Reservoirs, Kiser Reservoir, Donnelly Reservoir, Kiser Slough Reservoir, Baron Lake, Upper Eggleston Lake, Upper Hotel Lake, Hotel Lake, Arch Slough, Alexander Lake, Deep Ward Lake, Kennicott Slough Reservoir, Womack Reservoirs, Deep Slough Reservoir, Scotland Peak Reservoir, Boulder Lake Reservoir, Basin Reservoir 1, Clear Lake, Granby Reservoirs, Dugger Reservoir, Carson Lake, Crane Lake, Flowing Park, Blue Lake, Chambers Reservoir, Scales Lakes, Grand Mesa Reservoirs, Anderson Reservoirs, Bolen Reservoir, Bolen-Anderson-Jacobs Reservoir 2, Hollenbeck Reservoir 2, Cliff Lake Reservoir, Lee Reservoirs, Lone Pine Reservoirs, Bullfrog Reservoir, Twin Lake, Harry White Reservoirs, Beaver Dam Reservoir, and Fruita Reservoirs 1 and 2.					
COGULG14	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5-9.0	---	Chromium III	---	TVS
Other:	pH6.5-9.0 chlorophyll a (ug/L)---8*TVS E. coli (per 100 mL)---126 Inorganic (mg/L) acutechronic AmmoniaTVS TVS Boron---0.75 Chloride---250 Chlorine0.0190.011 Cyanide0.005--- Nitrate10--- Nitrite---0.05 Nitrogen--- - TVS Phosphorus---0.025*TVS Sulfate---WS Sulfide---0.002				Chromium III(T)	50	---
					Chromium VI	TVS	TVS
					Copper	TVS	TVS
					Iron	---	WS
					Iron(T)	---	1000
					Lead	TVS	TVS
					Lead(T)	50	---
					Manganese	TVS	TVS/WS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
			Zinc	TVS	TVS		

14. All lakes and reservoirs tributary to the Gunnison River, from the outlet of Crystal Reservoir to the confluence with the Colorado River, and within national forest boundaries, excluding listings in the North Fork of the Gunnison River sub-basin, the Uncompahgre River sub-basin, and Segments 15, 17 and 18. This segment includes Trickle Reservoir, Hale Reservoir, Marcott Park Reservoir, Cherry Lane Reservoir, Cole Reservoirs, Cedar Mesa Reservoir, Kehmeier Reservoir, Weir and Johnson Reservoir, Bonita Reservoir, Blanche Park Reservoir, Vela Reservoir, Knox Reservoir, Military Park Reservoir, Eureka Park Reservoir, Carbonate Park Reservoirs, Prebble Reservoir, Youngs Creek Reservoirs, Kiser Reservoir, Donnelly Reservoir, Kiser Slough Reservoir, Baron Lake, Upper Eggleston Lake, Upper Hotel Lake, Hotel Lake, Arch Slough, Alexander Lake, Deep Ward Lake, Kennicott Slough Reservoir, Womack Reservoirs, Deep Slough Reservoir, Scotland Peak Reservoir, Boulder Lake Reservoir, Basin Reservoir 1, Clear Lake, Granby Reservoirs, Dugger Reservoir, Carson Lake, Crane Lake, Flowing Park, Blue Lake, Chambers Reservoir, Scales Lakes, Grand Mesa Reservoirs, Anderson Reservoirs, Bolen Reservoir, Bolen-Anderson-Jacobs Reservoir 2, Hollenbeck Reservoir 2, Cliff Lake Reservoir, Lee Reservoirs, Lone Pine Reservoirs, Bullfrog Reservoir, Twin Lake, Harry White Reservoirs, Beaver Dam Reservoir, and Fruita Reservoirs 1 and 2.

COGULG14	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5-9.0	---	Chromium III	---	TVS
		chlorophyll a (ug/L)	---	8*TVS	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
		Nitrogen	---	TVS	Nickel(T)	---	100
		Phosphorus	---	0.025*TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Gunnison Basin

15. Island Lake, Eggleston Lake, and Trickle Park Reservoir (aka Park Reservoir).						
COGULG15	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CLL	CLL	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5-9.0	---	Chromium III	---
		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
					Copper	TVS
		Inorganic (mg/L)			Iron	---
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Nitrogen	---	TVS	Selenium	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS
		Sulfate	---	WS	Uranium	varies*
		Sulfide	---	0.002	Zinc	TVS

16. All lakes and reservoirs that are tributary to the Gunnison River, from the outlet of Crystal Reservoir to the confluence with the Colorado River, and not within national forest boundaries, excluding the listings in the North Fork of the Gunnison sub-basin, the Uncompahgre River sub-basin, and Segments 9, 13, and 19. This segment includes Poison Springs Reservoir, Dry Fork Reservoir, Delta Reservoir, Winkler Reservoir, Desert Reservoir, Alkali Reservoir, Cheney Reservoir, Juniata Reservoir, Hallenbeck Reservoir, Reeder Reservoir, Enochs Lake, Gobbo Reservoir, Schrader Reservoir, and King Reservoir.

COGULG16	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS
	DUWS*	pH	6.5 - 9.0	---	Cadmium(T)	5.0
Qualifiers:		chlorophyll a (ug/L)	---	20*DUWS	Chromium III	---
Other:		chlorophyll a (ug/L)	---	TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
					Copper	TVS
		Inorganic (mg/L)			Iron	---
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.5	Nickel(T)	---
		Nitrogen	---	TVS	Selenium	TVS
		Phosphorus	---	0.083*TVS	Silver	TVS
		Sulfate	---	WS	Uranium	varies*
		Sulfide	---	0.002	Zinc	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Gunnison Basin

17. All lakes and reservoirs tributary to the Smith Fork, and within national forest boundaries excluding the listings in Segment 18. All lakes and reservoirs tributary to Doug Creek.						
COGULG17	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
					Copper	TVS
					Iron	---
					Iron(T)	---
					Lead	TVS
					Lead(T)	50
					Manganese	TVS
					Mercury(T)	---
					Molybdenum(T)	---
					Nickel	TVS
					Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	TVS

18. All lakes and reservoirs tributary to the Smith Fork, and are within the West Elk Wilderness Area.						
COGULG18	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
OW	Aq Life Cold 1	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
					Copper	TVS
					Iron	---
					Iron(T)	---
					Lead	TVS
					Lead(T)	50
					Manganese	TVS
					Mercury(T)	---
					Molybdenum(T)	---
					Nickel	TVS
					Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Gunnison Basin

19. All lakes and reservoirs tributary to the Smith Fork, which are not within national forest boundaries, excluding the listings in Segment 17. This segment includes Gould Reservoir.							
COGULG19	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation P	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (ug/L)	---	20*TVS	Chromium III	---	TVS
<div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 35.5(3) for details.</div> <div>*Uranium(chronic) = See 35.5(3) for details.</div>		E. coli (per 100 mL)	---	205	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	---	0.5	Molybdenum(T)	---	150
		Nitrogen	---	TVS	Nickel	TVS	TVS
		Phosphorus	---	0.083*TVS	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Miguel River Basin

1. All tributaries, including wetlands, to the San Miguel River that are within the boundaries of the Lizard Head or Mount Sneffels Wilderness Areas.							
COGUSM01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
					Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)
2. All tributaries and wetlands to the San Miguel River from its source to a point immediately below the confluence of Leopard Creek, except for listings in Segments 1, 6a, 6b, 7a, 7b, and 8.							
COGUSM02	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
					Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Miguel River Basin

3a. Mainstem of the San Miguel River from its inception at the confluence of Bridal Veil and Ingram Creeks to a point immediately above the confluence of Marshall Creek.							
COGUSM03A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	7.6	
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m²)	---	450TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
		acute	chronic	Manganese	TVS	TVS	
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	---
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	---	190
		Phosphorus	---	0.44TVS			
		Sulfate	---	---			
Sulfide	---	0.002					

3b. Mainstem of the San Miguel River from a point immediately above the confluence of Marshall Creek to a point immediately above the confluence of the South Fork San Miguel River.							
COGUSM03B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
	Qualifiers:	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	450*TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	---	---
		Inorganic (mg/L)			Copper	---	TVS
		acute	chronic	Copper	---	---	
		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.44TVS*	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
			Silver	TVS	TVS(tr)		
			Uranium	varies*	varies*		
			Zinc	---	190		

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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Miguel River Basin

4a. Mainstem of the San Miguel River from a point immediately above the confluence of the South Fork of the San Miguel River to a point immediately below the CC ditch.						
COGUSM04A	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (mg/m ²)	---	TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
					Copper	TVS
		Inorganic (mg/L)			Iron	---
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	---	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

4b. Mainstem of the San Miguel River from a point immediately below the CC ditch to a point immediately below the confluence of Naturita Creek.						
COGUSM04B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	varies*	varies*	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Other:		chlorophyll a (mg/m ²)	---	TVS	Chromium III	---
		E. coli (per 100 mL)	---	126	Chromium III(T)	50
		Inorganic (mg/L)			Chromium VI	TVS
		acute	chronic	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---
		Boron	---	0.75	Iron(T)	---
		Chloride	---	250	Lead	TVS
		Chlorine	0.019	0.011	Lead(T)	50
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	---	0.5	Molybdenum(T)	---
		Phosphorus	---	---	Nickel	TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Miguel River Basin

5a. Mainstem of the San Miguel River from a point immediately below the confluence of Naturita Creek to a point immediately below the confluence of Coal Canyon.							
COGUSM05A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	--TVS -	Chromium III	TVS	TVS
*Uranium(chronic) = See 35.5(3) for details.		E. coli (per 100 mL)	---	126	Chromium III(T)	---	100
		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	TVS	varies*
					Uranium(T)	---	16.8-30 ^A
					Zinc	TVS	TVS

5b. Mainstem of the San Miguel River from a point immediately below the confluence of Coal Canyon to its confluence with the Dolores River.							
COGUSM05B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	7.6	
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other:		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
*Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (mg/m²)	---	--TVS -	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	---	0.5	Silver	TVS	TVS
		Phosphorus	---	---	Uranium	TVS	varies*
		Sulfate	---	---	Uranium(T)	---	16.8-30 ^A
		Sulfide	---	0.002	Zinc	TVS	TVS

5b. Mainstem of the San Miguel River from a point immediately below the confluence of Coal Canyon to its confluence with the Dolores River.							
COGUSM05B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m²)	---	--TVS -	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	---	0.5	Silver	TVS	TVS
		Phosphorus	---	---	Uranium	TVS	varies*
		Sulfate	---	---	Uranium(T)	---	16.8-30 ^A
Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Miguel River Basin

6a. Mainstem of Ingram Creek, including all tributaries and wetlands, from the source to the confluence with the San Miguel River.								
COGUSM06A	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	100		
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS	
		pH	6.5 - 9.0	---	Chromium III(T)	---	100	
		chlorophyll a (mg/m²)	---	150 TVS	Chromium VI	TVS	TVS	
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS	
					Iron(T)	---	1000	
		Inorganic (mg/L)			Lead	TVS	TVS	
		acute			chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01	
		Boron	---	0.75	Molybdenum(T)	---	150	
		Chloride	---	---	Nickel	TVS	TVS	
		Chlorine	0.019	0.011	Selenium	TVS	TVS	
		Cyanide	0.005	---	Silver	TVS	TVS	
		Nitrate	100	---	Uranium	varies*	varies*	
		Nitrite	---	0.05	Zinc	---	190	
		Phosphorus	---	0.44 TVS				
		Sulfate	---	---				
		Sulfide	---	0.002				

6b. Mainstem of Marshall Creek, including all tributaries and wetlands, from the source to the confluence with the San Miguel River.								
COGUSM06B	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	100		
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS	
		pH	6.5 - 9.0	---	Chromium III(T)	---	100	
		chlorophyll a (mg/m²)	---	150 TVS	Chromium VI	TVS	TVS	
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS	
					Iron(T)	---	1000	
		Inorganic (mg/L)			Lead	TVS	TVS	
		acute			chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01	
		Boron	---	0.75	Molybdenum(T)	---	150	
		Chloride	---	---	Nickel	TVS	TVS	
		Chlorine	0.019	0.011	Selenium	TVS	TVS	
		Cyanide	0.005	---	Silver	TVS	TVS	
		Nitrate	100	---	Uranium	varies*	varies*	
		Nitrite	---	0.05	Zinc	---	190	
		Phosphorus	---	0.44 TVS				
		Sulfate	---	---				
		Sulfide	---	0.002				

6b. Mainstem of Marshall Creek, including all tributaries and wetlands, from the source to the confluence with the San Miguel River.							
COGUSM06B Classifications		Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m²)	---	150TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
					Manganese	TVS	TVS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	---	190
		Ammonia	TVS	TVS			
		Boron	---	0.75			
		Chloride	---	---			
		Chlorine	0.019	0.011			
		Cyanide	0.005	---			
		Nitrate	100	---			
		Nitrite	---	0.05			
		Phosphorus	---	0.44TVS			
		Sulfate	---	---			
		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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Miguel River Basin

7a. Mainstem of Howard Fork, including all tributaries and wetlands, from a point immediately below the confluence of Swamp Gulch to the confluence with the South Fork of the San Miguel River, except for listings in Segment 7b.

COGUSM07A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 35.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 35.5(3) for details.		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

7b. Mainstem of Waterfall Creek, including all tributaries and wetlands, from the source to the confluence with Howard Fork.

COGUSM07B	Classifications	Physical and Biological			Metals (ug/L)				
Designation	Agriculture	DM	MWAT	acute	chronic				
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---		
	Recreation E	acute	chronic	Arsenic(T)	---	0.02			
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS		
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---		
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS		
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---		
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS		
					Copper	TVS	TVS		
		Inorganic (mg/L)			Iron	---	WS		
					Iron(T)	---	1000		
					Lead	TVS	TVS		
		Ammonia			TVS	TVS			
		Boron			---	0.75	Lead(T)	50	---
		Chloride			---	250	Manganese	TVS	TVS/WS
		Chlorine			0.019	0.011	Mercury(T)	---	0.01
		Cyanide			0.005	---	Molybdenum(T)	---	150
		Nitrate			10	---	Nickel	TVS	TVS
		Nitrite			---	0.05	Nickel(T)	---	100
		Phosphorus			---	0.11 TVS	Selenium	TVS	TVS
		Sulfate			---	WS	Silver	TVS	TVS(tr)
		Sulfide			---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Miguel River Basin

8. Mainstem of the South Fork of the San Miguel River from its inception at the confluence of the Howard and Lake Forks to its confluence with the San Miguel River.							
COGUSM08	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/80
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
9a. All tributaries to the San Miguel River, including all wetlands, from a point immediately below the confluence of Leopard Creek to the Dolores River that are within the boundaries of the Uncompahgre National Forest, except for listings in Segments 9b and 10a.							
COGUSM09A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

9a. All tributaries to the San Miguel River, including all wetlands, from a point immediately below the confluence of Leopard Creek to the Dolores River that are within the boundaries of the Uncompahgre National Forest, except for listings in Segments 9b and 10a.

COGUSM09A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	450 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

*Uranium(acute) = See 35.5(3) for details.

*Uranium(chronic) = See 35.5(3) for details.

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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Miguel River Basin

9b. All tributaries and wetlands to Tabeguache Creek that are within the boundaries of the Uncompahgre National Forest.						
COGUSM09B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
Qualifiers:	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:	pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	50
*Uranium(acute) = See 35.5(3) for details.	*Uranium(chronic) = See 35.5(3) for details.	E. coli (per 100 mL)	---	126	Chromium VI	TVS
					Copper	TVS
		Inorganic (mg/L)			Iron	---
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	0.44TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

10a. Mainstem of Tabeguache Creek from its source to the Uncompahgre National Forest boundary.						
COGUSM10A	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
OW	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
Qualifiers:	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:	pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	50
*Uranium(acute) = See 35.5(3) for details.	*Uranium(chronic) = See 35.5(3) for details.	E. coli (per 100 mL)	---	126	Chromium VI	TVS
					Copper	TVS
		Inorganic (mg/L)			Iron	---
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	0.44TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Miguel River Basin

10b. Mainstem of Naturita Creek from the point it exits the Uncompahgre National Forest at the most downstream boundary to the confluence with the San Miguel River.							
COGUSM10B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (mg/m²)	---	150 TVS	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/75
		Nitrate	10	---	Mercury(T)	---	0.01
		Nitrite	---	0.05	Molybdenum(T)	---	150
		Phosphorus	---	0.47 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
		Silver	TVS	TVS			
		Uranium	varies*	varies*			
		Zinc	TVS	TVS			
10c. Mainstem of Tabeguache Creek from the point it exits the Uncompahgre National Forest to the confluence with the San Miguel River.							
COGUSM10C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
OW	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (mg/m²)	---	150 TVS	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/75
		Nitrate	10	---	Mercury(T)	---	0.01
		Nitrite	---	0.05	Molybdenum(T)	---	150
		Phosphorus	---	0.47 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
		Silver	TVS	TVS			
		Uranium	varies*	varies*			
		Zinc	TVS	TVS			

10c. Mainstem of Tabeguache Creek from the point it exits the Uncompahgre National Forest to the confluence with the San Miguel River.							
COGUSM10C		Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
OW	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (mg/m²)	---	150 TVS	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/75
		Nitrate	10	---	Mercury(T)	---	0.01
		Nitrite	---	0.05	Molybdenum(T)	---	150
		Phosphorus	---	0.47 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Miguel River Basin

11a. All tributaries to Miramonte Reservoir and West Naturita Creek from their sources to the Uncompahgre National Forest Boundary below Miramonte Reservoir. The mainstems of Beaver and Horsefly Creeks from the Uncompahgre National Forest boundary to their confluences with the San Miguel River.

COGUSM11A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:	*Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.	D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m²)	---	150 TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
		acute		chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	TVS	TVS
		Phosphorus	---	0.11 TVS			
		Sulfate	---	---			
		Sulfide	---	0.002			

11b. Mainstem of Saltado Creek from the Uncompahgre National Forest boundary to the confluence with the San Miguel River.

COGUSM11B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
	*Uranium(acute) = See 35.5(3) for details.	chlorophyll a (mg/m²)	---	150 TVS	Chromium VI	TVS	TVS
	*Uranium(chronic) = See 35.5(3) for details.	E. coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
		acute		chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	TVS	TVS
		Phosphorus	---	0.11 TVS			
		Sulfate	---	---			
		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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Miguel River Basin

12a. All tributaries and wetlands to Naturita Creek. All tributaries and wetlands to the San Miguel River from a point immediately below the confluence with Leopard Creek to a point immediately above Horsefly Creek. This segment excludes the listings in Segments 9a, 11a, 11b, 12b, and 12c.

COGUSM12A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Water + Fish Standards		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 35.5(3) for details.		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	TVS	varies*
					Uranium(T)	---	16.8-30 ^A
					Zinc	TVS	TVS

12b. All tributaries and wetlands to the San Miguel River from a point immediately above Horsefly Creek to the confluence with the Dolores River, excluding the listings in Segments 9a, 9b, 10a, 10b, 10c, 11a, 12a, 12c, and 12d. Maverick Draw, including all tributaries and wetlands, from its source to the confluence with Naturita Creek.

COGUSM12B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Water + Fish Standards		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III	---	TVS
Other:		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Temporary Modification(s):		Inorganic (mg/L)			Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid		acute		chronic	Copper	TVS	TVS
Expiration Date of 12/31/2024		Ammonia	TVS	TVS	Iron	---	WS
*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 35.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 35.5(4). *Uranium(chronic) = See 35.5(3) for details.		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)	---	150
		Phosphorus	---	0.17 TVS*	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
			Uranium	TVS	varies*		
			Uranium(T)	---	16.8-30 ^A		
			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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Miguel River Basin

12c. Mainstem of Calamity Draw from Lincoln Street in Nucla (38.264075, -108.555087) to the confluence with the San Miguel River.								
COGUSM12C	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---	
	Recreation E		acute	chronic	Arsenic(T)	---	7.6	
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
Fish Ingestion		pH	6.5 - 9.0	---	Chromium III	---	TVS	
Other:	Discharger Specific Variance(s): Ammonia(ac/ch) = See Section 35.6(4) for details on the variance for the Town of Nucla. Expiration Date of 12/31/2026 *chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 35.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 35.5(4). *Uranium(chronic) = See 35.5(3) for details.	chlorophyll a (mg/m²)	---	150*TVS	Chromium III(T)	50	---	
		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	---	250	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	---	0.17TVS*	Uranium	TVS	varies*	
		Sulfate	---	---	Uranium(T)	---	16.8-30 ^A	
		Sulfide	---	0.002	Zinc	TVS	TVS	
		12d. All tributaries and wetlands to Tabeguache Creek from the point it exits the Uncompahgre National Forest to the confluence with the San Miguel River.						
		COGUSM12D	Classifications	Physical and Biological			Metals (ug/L)	
		Designation	Agriculture	DM	MWAT	acute	chronic	
OW	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---	
	Recreation E		acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
Water + Fish Standards		chlorophyll a (mg/m²)	---	150TVS	Chromium III	---	TVS	
Other:	*Uranium(chronic) = See 35.5(3) for details.	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)	---	150	
		Phosphorus	---	0.17TVS	Nickel	TVS	TVS	
		Sulfate	---	WS	Nickel(T)	---	100	
		Sulfide	---	0.002	Selenium	TVS	TVS	
					Silver	TVS	TVS	
					Uranium	TVS	varies*	
					Uranium(T)	---	16.8-30 ^A	
					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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Miguel River Basin

13. All lakes and reservoirs tributary to the San Miguel River that are within the boundaries of the Lizard Head or Mount Sneffels Wilderness Areas.							
COGUSM13	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT	acute	chronic	
OW	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
					Iron(T)	---	1000
					Lead	TVS	TVS
					Lead(T)	50	---
					Manganese	TVS	TVS/WS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS
		14. All lakes and reservoirs tributary to the San Miguel River from its source to a point immediately below the confluence of Leopard Creek, except for the specific listings in Segments 13, 15, 16, 17 and 20. This segment includes Lake Hope, Cushman Lake, Alta Lakes, Blue Lake, Mud Lake, and Woods Lake.					
COGUSM14	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
					Iron(T)	---	1000
					Lead	TVS	TVS
					Lead(T)	50	---
					Manganese	TVS	TVS/WS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Miguel River Basin

15. All lakes and reservoirs tributary to Ingram Creek from the source to the confluence with the San Miguel River. This segment includes Ingram Lake.							
COGUSM15	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (ug/L)	---	8*TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
		acute	chronic		Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	TVS	TVS
		Nitrogen	---	TVS			
		Phosphorus	---	0.025*TVS			
	Sulfate	---	---				
	Sulfide	---	0.002				
16. All lakes and reservoirs tributary to Marshall Creek from the source to the confluence with the San Miguel River. This segment includes Thorne Lake.							
COGUSM16	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (ug/L)	---	8*TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
		acute	chronic		Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	---	190
		Nitrogen	---	TVS			
		Phosphorus	---	0.025*TVS			
	Sulfate	---	---				
	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Miguel River Basin

17. All lakes and reservoirs tributary to the Howard Fork from a point immediately below the confluence of Swamp Gulch to the confluence with the South Fork of the San Miguel River.						
COGUSM17	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CL CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	--- 6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)	--- 7.0	Chromium III	TVS	TVS
<p>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Uranium(acute) = See 35.5(3) for details.</p> <p>*Uranium(chronic) = See 35.5(3) for details.</p>		pH	6.5 - 9.0 ---	Chromium III(T)	---	100
		chlorophyll a (ug/L)	---	8*TVS	Chromium VI	TVS TVS
		E. coli (per 100 mL)	---	126	Copper	TVS TVS
		Inorganic (mg/L)		Iron(T)	---	1000
		acute	chronic	Lead	TVS	TVS
		Ammonia	TVS TVS	Manganese	TVS	TVS
		Boron	--- 0.75	Mercury(T)	---	0.01
		Chloride	---	Molybdenum(T)	---	150
		Chlorine	0.019 0.011	Nickel	TVS	TVS
		Cyanide	0.005 ---	Selenium	TVS	TVS
		Nitrate	100 ---	Silver	TVS	TVS(tr)
		Nitrite	--- 0.05	Uranium	varies*	varies*
		Nitrogen	--- - TVS	Zinc	TVS	TVS
		Phosphorus	--- 0.025*TVS			
		Sulfate	---			
		Sulfide	--- 0.002			
18. All lakes and reservoirs tributary to the San Miguel River from a point immediately below the confluence of Leopard Creek to the confluence with the Dolores River, and that are within Uncompahgre National Forest boundaries. This segment includes Hoffman Reservoir, Paxton Reservoir, and Hotchkiss Reservoir.						
COGUSM18	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CL CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	--- 6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	--- 7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0 ---	Chromium III	---	TVS
<p>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Uranium(acute) = See 35.5(3) for details.</p> <p>*Uranium(chronic) = See 35.5(3) for details.</p>		chlorophyll a (ug/L)	---	8*TVS	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
		Nitrogen	--- - TVS	Nickel(T)	---	100
		Phosphorus	--- 0.025*TVS	Selenium	TVS	TVS
		Sulfate	---	Silver	TVS	TVS(tr)
		Sulfide	--- 0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

San Miguel River Basin

19. All lakes and reservoirs tributary to the San Miguel River from a point immediately below the confluence of Leopard Creek to the Dolores River, and not within Uncompahgre National Forest boundaries, excluding the listings in Segment 20. This segment includes Point Reservoir, Palmers Lake, Williams Reservoir, Town Reservoir, and Lilylands Reservoir.

COGUSM19	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CL	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---
	Water Supply	D.O. (mg/L)	6.0	Cadmium	TVS
	DUWS*	D.O. (spawning)	7.0	Cadmium(T)	5.0
Qualifiers:		pH	6.5 - 9.0	Chromium III	TVS
Other:		chlorophyll a (ug/L)	8*DUWS	Chromium III(T)	50
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		chlorophyll a (ug/L)	TVS	Chromium VI	TVS
*Classification: DUWS applies to Town Reservoir only.		E. coli (per 100 mL)	126	Copper	TVS
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		Inorganic (mg/L)		Iron	WS
*Uranium(acute) = See 35.5(3) for details.		acute	chronic	Iron(T)	1000
*Uranium(chronic) = See 35.5(3) for details.		Ammonia	TVS	Lead	TVS
		Boron	0.75	Lead(T)	50
		Chloride	250	Manganese	TVS
		Chlorine	0.019	Mercury(T)	0.01
		Cyanide	0.005	Molybdenum(T)	150
		Nitrate	10	Nickel	TVS
		Nitrite	0.05	Nickel(T)	100
		Nitrogen	TVS	Selenium	TVS
		Phosphorus	0.025*TVS	Silver	TVS(tr)
		Sulfate	WS	Uranium	varies*
		Sulfide	0.002	Zinc	TVS

20. Trout Lake, Gurley Reservoir, Cone Reservoir, and Miramonte Reservoir.

COGUSM20	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CLL	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	0.02
	Water Supply	D.O. (mg/L)	6.0	Cadmium	TVS
	DUWS*	D.O. (spawning)	7.0	Cadmium(T)	5.0
Qualifiers:		pH	6.5 - 9.0	Chromium III	TVS
Other:		chlorophyll a (ug/L)	8*DUWS	Chromium III(T)	50
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		chlorophyll a (ug/L)	TVS	Chromium VI	TVS
*Classification: DUWS applies to Gurley Reservoir only.		E. coli (per 100 mL)	126	Copper	TVS
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		Inorganic (mg/L)		Iron	WS
*Uranium(acute) = See 35.5(3) for details.		acute	chronic	Iron(T)	1000
*Uranium(chronic) = See 35.5(3) for details.		Ammonia	TVS	Lead	TVS
		Boron	0.75	Lead(T)	50
		Chloride	250	Manganese	TVS
		Chlorine	0.019	Mercury(T)	0.01
		Cyanide	0.005	Molybdenum(T)	150
		Nitrate	10	Nickel	TVS
		Nitrite	0.05	Nickel(T)	100
		Nitrogen	TVS	Selenium	TVS
		Phosphorus	0.025*TVS	Silver	TVS(tr)
		Sulfate	WS	Uranium	varies*
		Sulfide	0.002	Zinc	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Dolores River Basin

1a. Mainstem of the Dolores River from the bridge at Bradfield Ranch (Forest Route 505, near Montezuma/Dolores County Line) to a point immediately above the confluence with Big Canyon Creek near Dove Creek.

COGULD01A	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---	
	Recreation E	acute		chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
Temporary Modification(s):		chlorophyll a (mg/m²)	---	--- TVS	Chromium III(T)	50	---	
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
Expiration Date of 12/31/2024					Copper	TVS	TVS	
*Uranium(chronic) = See 35.5(3) for details. *Temperature = DM and MWAT=CS-II from 11/1-3/22 DM=26.6 and MWAT=23.8 from 3/23-10/31		Inorganic (mg/L)			Iron	---	WS	
		acute		chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	---	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	TVS	varies*	
						Uranium(T)	---	16.8-30 ^A
						Zinc	TVS	TVS

1b. Mainstem of the Dolores River from a point immediately above the confluence with Big Canyon Creek near Dove Creek to a point immediately above the Highway 141 road crossing near Slick Rock.

COGULD01B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(chronic) = See 35.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Temperature =		acute		chronic	Iron(T)	---	1000
DM=CS-II and MWAT=9.1 from 11/1-3/22		Ammonia	TVS	TVS	Lead	TVS	TVS
DM= 27.6 and MWAT=24.7 from 3/23-10/31		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	TVS	varies*
					Uranium(T)	---	16.8-30 ^A
					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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Dolores River Basin

2. Mainstem of the Dolores River from the Highway 141 road crossing near Slick Rock to the Colorado/Utah border.						
COGULD02	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340
	Recreation E	acute	chronic		Arsenic(T)	---
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Other:		chlorophyll a (mg/m ²)	---	--- TVS	Chromium III	---
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS
Expiration Date of 12/31/2024		acute	chronic		Copper	TVS
*Uranium(chronic) = See 35.5(3) for details.		Ammonia	TVS	TVS	Iron	---
		Boron	---	0.75	Iron(T)	---
		Chloride	---	250	Lead	TVS
		Chlorine	0.019	0.011	Lead(T)	50
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	---	0.5	Molybdenum(T)	---
		Phosphorus	---	---	Nickel	TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
					Silver	TVS
					Uranium	TVS
					Uranium(T)	---
					Zinc	TVS
						TVS

3a. All tributaries to the Dolores River, including all wetlands, from the bridge at Bradfield Ranch (Forest Route 505, near Montezuma/Dolores County Line) to the Colorado/Utah border, except for specific listings in Segments 3b, 3c, 4, 5, and 6.						
COGULD03A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340
	Recreation E	acute	chronic		Arsenic(T)	---
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Other:		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III	---
*Uranium(acute) = See 35.5(3) for details.		E. coli (per 100 mL)	---	126	Chromium III(T)	50
*Uranium(chronic) = See 35.5(3) for details.		Inorganic (mg/L)			Chromium VI	TVS
		acute	chronic		Copper	TVS
		Ammonia	TVS	TVS	Iron	---
		Boron	---	0.75	Iron(T)	---
		Chloride	---	250	Lead	TVS
		Chlorine	0.019	0.011	Lead(T)	50
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	---	0.5	Molybdenum(T)	---
		Phosphorus	---	0.17 TVS	Nickel	TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
					Silver	TVS
					Uranium	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Dolores River Basin

3b. All tributaries to the Dolores River, including wetlands, that are within national forest boundaries, from the bridge at Bradfield Ranch (Forest Route 505, near the Montezuma/Dolores County Line) to the Colorado/Utah border, excluding the small area of Uncompahgre National Forest within the Disappointment Valley and the listings in Segments 3c and 5. Disappointment Creek, including all tributaries and wetlands, from the source to a point immediately below the confluence with Morrison Creek.

COGULD03B	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1 Recreation E	Temperature °C	CS-I CS-I	Arsenic	340 ---
Qualifiers:	Other:	acute	chronic	Arsenic(T)	--- 7.6
		D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS
		D.O. (spawning)	--- 7.0	Chromium III	TVS TVS
		pH	6.5 - 9.0 ---	Chromium III(T)	--- 100
		chlorophyll a (mg/m ²)	--- 150 TVS	Chromium VI	TVS TVS
		E. coli (per 100 mL)	--- 126	Copper	TVS TVS
		Inorganic (mg/L)		Iron(T)	--- 1000
		acute	chronic	Lead	TVS TVS
		Ammonia	TVS TVS	Manganese	TVS TVS
		Boron	--- 0.75	Mercury(T)	--- 0.01
		Chloride	--- ---	Molybdenum(T)	--- 150
		Chlorine	0.019 0.011	Nickel	TVS TVS
		Cyanide	0.005 ---	Selenium	TVS TVS
		Nitrate	100 ---	Silver	TVS TVS(tr)
		Nitrite	--- 0.05	Uranium	TVS TVS
		Phosphorus	--- 0.11 TVS	Zinc	TVS TVS/TVS(sc)
		Sulfate	--- ---		
		Sulfide	--- 0.002		

3c. Mainstem of Salt Creek, including all tributaries and wetlands, from the source within the Sinbad Valley to the confluence with the Dolores River.

COGULD03C	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Warm 2 Recreation E	Temperature °C	WS-III WS-III	Arsenic	340 ---
Qualifiers:	Other:	acute	chronic	Arsenic(T)	--- 100
		D.O. (mg/L)	--- 5.0	Cadmium	TVS TVS
		pH	6.5 - 9.0 ---	Chromium III	TVS TVS
		chlorophyll a (mg/m ²)	--- 150 TVS	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 6.6
		Nitrite	--- 0.5	Silver	TVS TVS
		Phosphorus	--- 0.17 TVS	Uranium	TVS varies*
		Sulfate	--- ---	Uranium(T)	--- 16.8-30 ^A
		Sulfide	--- 0.002	Zinc	TVS TVS

*Uranium(chronic) = See 35.5(3) for details.

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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Dolores River Basin

4. Mainstem of West Paradox Creek from the Manti-La Sal National Forest boundary to the confluence with the Dolores River. Mainstem of Blue Creek, including all tributaries and wetlands, from the Uncompahgre National Forest boundary to the confluence with the Dolores River.							
COGULD04	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: *Uranium(chronic) = See 35.5(3) for details.		chlorophyll a (mg/m²)	---	150 TVS	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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.17 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	TVS	varies*
					Uranium(T)	---	16.8-30 ^A
					Zinc	TVS	TVS
5. Mainstem of West Creek from the source to the confluence with the Dolores River. Roc Creek including all tributaries and wetlands from the Manti-La Sal National Forest boundary to the confluence with the Dolores River. La Sal Creek, including all tributaries and wetlands, from the Utah/Colorado border to the confluence with the Dolores River. Mesa Creek, including all tributaries and wetlands, from the Uncompahgre National Forest boundary to the confluence with the Dolores River.							
COGULD05	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	150 TVS	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	---	0.14 TVS	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	TVS	varies*
					Uranium(T)	---	16.8-30 ^A
					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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Dolores River Basin

6. North Fork of West Creek, including all tributaries and wetlands, from the source to the confluence with West Creek. Granite Creek, including all tributaries and wetlands, from the source the Colorado/Utah border.							
COGULD06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Beryllium(T)	---	100
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
		chlorophyll a (mg/m ²)	---	150TVS	Chromium III	---	TVS
		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
					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	---	0.11TVS	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

7. All lakes and reservoirs tributary to the Dolores River, from the bridge at Bradfield Ranch (Forest Route 505, near Montezuma/Dolores County Line) to the Colorado/Utah border, and within national forest boundaries. This segment includes Long Park Reservoir, Cabin Reservoir, Beef Trail Reservoir, Dry Lake, Glade Lake, Glade Point Reservoir, Arrowhead Lake, Buckeye Reservoir, Black Pine Reservoir, Casto Reservoir, and Big Creek Reservoir.							
COGULD07	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 35.5(3) for details. *Uranium(chronic) = See 35.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (ug/L)	---	8TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	0.025TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	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 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Dolores River Basin

8. All lakes and reservoirs tributary to the Dolores River, from the bridge at Bradfield Ranch (Forest Route 505, near Montezuma/Dolores County Line) to the Colorado/Utah border, and not within national forest boundaries.

COGULD08	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		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
		chlorophyll a (ug/L)	---	20*TVS	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	---	0.5	Silver	TVS	TVS
		Nitrogen	---	TVS	Uranium	varies*	varies*
		Phosphorus	---	0.083*TVS	Zinc	TVS	TVS
		Sulfate	---	---			
		Sulfide	---	0.002			

*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.

*Uranium(acute) = See 35.5(3) for details.

*Uranium(chronic) = See 35.5(3) for details.

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 35.6 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) Reserved.
- (C) For certain site-specific temperature standards, the temperature excursions listed in Table I - Footnote 5(c) of 31.16 do not apply. Assessment of ambient-based temperature standards should be conducted in a way that represents similar conditions to those under which the criteria were developed (i.e., air, low flow, and warming event excursions should not apply). Similarly, where site-specific adjustments to the winter shoulder season have been adopted, the winter shoulder season excursion does not apply.

DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Water Quality Control Commission

REGULATION NO. 36 - CLASSIFICATIONS AND NUMERIC STANDARDS FOR RIO GRANDE BASIN

5 CCR 1002-36

36.1 AUTHORITY

These regulations are promulgated pursuant to section 25-8-101 et seq. C.R.S., as amended, and in particular, 25-8-203 and 25-8-204.

36.2 PURPOSE

These regulations establish classifications and numeric standards for the Rio Grande Basin, including all tributaries and standing bodies of water as indicated in section 36.6. The classifications identify the actual beneficial uses of the water. The numeric standards are assigned to determine the allowable concentrations of various parameters. Discharge permits will be issued by the Water Quality Control Division to comply with basic, narrative, and numeric standards and control regulations so that all discharges to waters of the state protect the classified uses. It is intended that these and all other stream classifications and numeric standards be used in conjunction with and be an integral part of Regulation No. 31 Basic Standards and Methodologies for Surface Water.

36.3 INTRODUCTION

These regulations and tables present the classifications and numeric standards assigned to stream segments listed in the attached tables (See Appendix 36-1). As additional stream segments are classified and numeric standards for designated parameters are assigned for this drainage system, they will be added to or replace the numeric standards in the tables in Appendix 36-1. Any additions or revisions of classifications or numeric standards can be accomplished only after public hearing by the Commission and proper consideration of evidence and testimony as specified by the statute and the "basic regulations".

36.4 DEFINITIONS

See the Colorado Water Quality Control Act and the codified water quality regulations for definitions.

36.5 BASIC STANDARDS

(1) Temperature

All waters of the Rio Grande Basin are subject to the following standard for temperature. (Discharges regulated by permits, which are within the permit limitations, shall not be subject to enforcement proceedings under this standard.) Temperature shall maintain a normal pattern of diurnal and seasonal fluctuations with no abrupt changes and shall have no increase in temperature of a magnitude, rate, and duration deemed deleterious to the resident aquatic life. This standard shall not be interpreted or applied in a manner inconsistent with section 25-8-104, C.R.S.

(2) Qualifiers

See Basic Standards and Methodologies for Surface Water for a listing of organic standards at 31.11 Table B and metal standards found at 31.16 Table III. The column in the tables headed "Water + Fish" are presumptively applied to all aquatic life class 1 streams which also have a water supply classification, and are applied to aquatic life class 2 streams which also have a water supply classification, on a case-by-case basis as shown in Appendix 36-1. The column in the tables at 31.11 and 31.16 Table III headed "Fish Ingestion" is presumptively applied to all aquatic life class 1 streams which do not have a water supply classification, and are applied to aquatic life class 2 streams which do not have a water supply classification, on a case-by-case basis as shown in Appendix 36-1.

(3) Uranium

- (a) All waters of the Rio Grande Basin are subject to the following basic standard for uranium, unless otherwise specified by a water quality standard applicable to a particular segment. However, discharges of uranium regulated by permits which are within these permit limitations shall not be a basis for enforcement proceedings under this basic standard.
- (b) Uranium level in surface waters shall be maintained at the lowest practicable level.
- (c) In no case shall uranium levels in waters assigned a water supply classification be increased by any cause attributable to municipal, industrial, or agricultural discharges so as to exceed 16.8-30 µg/L or naturally-occurring concentrations (as determined by the State of Colorado), whichever is greater.
 - (i) The first number in the 16.8-30 µg/L 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.

(4) Nutrients

See Basic Standards and Methodologies for Surface Water at 31.17 for a listing of chlorophyll a, total nitrogen, and total phosphorus standards for lakes and reservoirs (Table V) and rivers and streams (Table VI). As described in 31.17(2), total nitrogen and total phosphorus standards will be considered for adoption in phases.

Prior to December 31, ~~2022~~ for chlorophyll a and prior to December 31, 2027 for, total nitrogen and total phosphorus, interim nutrient values will be considered for adoption only in the limited circumstances defined at 31.17(~~e2~~)(a)(i) and (~~f~~). ~~These~~ ii). For lakes and reservoirs, these circumstances include ~~headwaters, waterbodies upstream of certain domestic and non-domestic wastewater treatment facilities (31.17(2)(a)(i)(A)), waterbodies with a Direct Use Water Supply (DUWS) Lakes and Reservoirs, sub-classification (31.17(2)(a)(i)(B)), waterbodies with public swim beaches (31.17(2)(a)(i)(C)),~~ and other special circumstances determined by the Commission. ~~Additionally, prior to December 31, 2027, only total phosphorus and chlorophyll a will be~~

~~considered for adoption. After December 31, 2027, total nitrogen will be considered for adoption per the (31.17(2)(a)(i)(D)). For rivers and streams, these circumstances outlined in 31.17(g).~~

~~Prior to December 31, 2027, nutrient criteria will be adopted for headwaters on a segment by segment basis for the Rio Grande Basin. Moreover, pursuant to 31.17(e) nutrient standards will only be adopted for waters upstream of all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012, and any non-domestic include waterbodies upstream of certain domestic and non-domestic wastewater treatment facilities subject to Regulation 85 effluent limits and discharging prior to May 31, 2012. The (31.17(2)(a)(ii)(A)) and other special circumstances determined by the Commission (31.17(2)(a)(ii)(B)).~~

~~Pursuant to 31.17(2)(a)(i)(A) and 31.17(2)(a)(ii)(A), the following is a list of all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012, cooling tower discharges, and any non-domestic facilities subject to Regulation 85 effluent limits and discharging prior to May 31, 2012 in the Rio Grande Basin:~~

Segment	Permittee	Facility name	Permit No.
CORGRG02	Mountain Views at Rivers Edge RV	Mtn Views At Rvrs Edge Rv Rst	COG588069
CORGRG04b	South Fork Water and Sanitation District	South Fork Water and San Dist WWTF	COG588039
CORGRG04c	Monte Vista City of	Veterans Center WWTF	CO0036927
CORGRG04c ;CORGRG15	Monte Vista City of	Henderson Lagoon Facility	CO0023132
CORGRG04b ;CORGRG18	Del Norte Town of	Del Norte WWTF	CO0020281
CORGRG07	Creede City of	Creede WWTF	CO0040533
CORGRG09b	Fun Valley Resort	Fun Valley Resort	COG588018
CORGRG09a	Wolf Creek Ski Corp	Wolf Creek Ski Corp WWTF	CO0041785
CORGRG12	Alamosa City of	Alamosa Regional WWTF	CO0044458
CORGRG15	San Luis Water and Sanitation District	San Luis Water and San Dist WWTF	COG589082
CORGRG31	Costilla County Water and Sanitation System	Costilla County Water & San Dist WWTF	CO0036528
CORGAL12	La Jara Town of	La Jara WWTF	CO0020150
CORGAL15	Manassa Town of	Manassa WWTF	CO0042935
CORGAL18	Antonito Town of	Antonito WWTF	CO0040975
CORGCB06	Baca Grande Water and Sanitation District	Aspen Institute	CO0046914

Prior to ~~May~~December 31, ~~2022~~2027:

- For segments located entirely above these facilities, ~~nutrient~~total nitrogen and total phosphorus standards apply to the entire segment.
- For segments with portions downstream of these facilities, ~~nutrient~~total nitrogen and total phosphorus standards only apply above these facilities, except where a waterbody has a DUWS sub-classification or public swim beach. A note was added to the total phosphorus and ~~chlorophyll a~~total nitrogen standards in these segments. The note references the table of qualified facilities at 36.5(4).
- For segments located entirely below these facilities, ~~nutrient~~total nitrogen and total phosphorus standards do not apply, except where a waterbody has a DUWS sub-classification or public swim beach.
- Additionally, for segments with portions downstream of these facilities or for segments located entirely below these facilities, total nitrogen and total

phosphorus standards may apply where special circumstances have been identified by the Commission (31.17(2)(a)(i)(D) and 31.17(2)(a)(ii)(B)).

~~A note was added to the total phosphorus and chlorophyll a standards in lakes segments as nutrients standards apply only to lakes and reservoirs larger than 25 acres surface area.~~

36.6 TABLES

(1) Introduction

The numeric standards for various parameters in this regulation and in the tables in Appendix 36-1 were assigned by the Commission after a careful analysis of the data presented on actual stream conditions and on actual and potential water uses. For each parameter listed in the tables in Appendix 36-1, only the most stringent standard is shown. Additional, less stringent standards may apply to protect additional uses and can be found in the tables in Regulation No. 31.

Numeric standards are not assigned for all parameters listed in the tables in Regulation No. 31. If additional numeric standards are found to be needed during future periodic reviews, they can be assigned by following the proper hearing procedures.

(2) Abbreviations

(a) The following abbreviations are used in this regulation and the tables in Appendix 36-1:

ac	=	acute (1-day)
AEL	=	alternative effluent limit
°C	=	degrees Celsius
ch	=	chronic (30-day)
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
DM	=	daily maximum temperature
D.O.	=	dissolved oxygen
DUWS	=	direct use water supply
<i>E. coli</i>	=	<i>Escherichia coli</i>
mg/L	=	milligrams per liter
MWAT	=	maximum weekly average temperature
OW	=	outstanding waters
sp	=	spawning
SSE	=	site-specific equation
T	=	total recoverable
t	=	total
tr	=	trout
TVS	=	table value standard
µg/L	=	micrograms per liter
UP	=	use-protected
WL	=	warm lake temperature tier
WS	=	water supply
WS-I	=	warm stream temperature tier one
WS-II	=	warm stream temperature tier two
WS-III	=	warm stream temperature tier three

(b) In addition, the following abbreviations are used:

Iron (chronic)	=	WS
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Manganese (chronic) = WS
Sulfate (chronic) = WS

These abbreviations mean: For all surface waters with an actual water supply use, the less restrictive of the following two options shall apply as numerical standards, as specified in the Basic Standards and Methodologies at 31.11(6);

(i) existing quality as of January 1, 2000; or

(ii) Iron = 300 µg/L (dissolved)
Manganese = 50 µg/L (dissolved)
Sulfate = 250 mg/L (dissolved)

For all surface waters with a “water supply” classification that are not in actual use as a water supply, no water supply standards are applied for iron, manganese or sulfate, unless the Commission determines as the result of a site-specific rulemaking hearing that such standards are appropriate.

(c) Temporary Modification for Water + Fish Chronic Arsenic Standard

- (i) The temporary modification for chronic arsenic standards applied to segments with an arsenic standard of 0.02 µg/L that has been set to protect the Water + Fish qualifier is listed in the Other column in Appendix 36-1 tables as As(ch)=hybrid.
- (ii) For discharges existing on or before 6/1/2013, the temporary modification is: As(ch)=current condition, expiring on 12/31/2024. Where a permit for an existing discharge is reissued or modified while the temporary modification is in effect, the division will include additional permit Terms and Conditions, which may include requirements for additional monitoring, source identification, and characterization of source control and treatment options for reducing arsenic concentrations in effluent.
- (iii) For new or increased discharges commencing on or after 6/1/2013, the temporary modification is: As(ch)=0.02-3.0 µg/L (total recoverable), expiring on 12/31/2024.
- (a) The first number in the range is the health-based water quality standard previously adopted by the Commission for the segment.
- (b) The second number in the range is a technology-based value established by the Commission for the purpose of this temporary modification.
- (c) 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.

(3) Table Value Standards

In certain instances in the tables in Appendix 36-1, the designation “TVS” is used to indicate that for a particular parameter a “table value standard” has been adopted. This designation refers to numerical

criteria set forth in the Basic Standards and Methodologies for Surface Water. The criteria for which the TVS are applicable are on the following table.

TABLE VALUE STANDARDS
(Concentrations in µg/L unless noted)

PARAMETER ⁽¹⁾	TABLE VALUE STANDARDS ⁽²⁾⁽³⁾				
Aluminum(T)	Acute = $e^{(1.3695 \ln(\text{hardness}) + 1.8308)}$ pH equal to or greater than 7.0 Chronic = $e^{(1.3695 \ln(\text{hardness}) - 0.1158)}$ pH less than 7.0 Chronic = $e^{(1.3695 \ln(\text{hardness}) - 0.1158)}$ or 87, whichever is more stringent				
Ammonia ⁽⁴⁾	Cold Water = (mg/L as N) Total $acute = \frac{0.275}{1 + 10^{7.204 - pH}} + \frac{39.0}{1 + 10^{pH - 7.204}}$ $chronic = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * MIN(2.85, 1.45 * 10^{0.028(25 - T)})$ Warm Water = (mg/L as N) Total $acute = \frac{0.411}{1 + 10^{7.204 - pH}} + \frac{58.4}{1 + 10^{pH - 7.204}}$ $chronic (Apr 1 - Aug 31) = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * MIN(2.85, 1.45 * 10^{0.028(25 - T)})$ $chronic (Sep 1 - Mar 31) = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * 1.45 * 10^{0.028(25 - MAX(T, 7))}$				
Cadmium	Acute(warm) ⁽⁵⁾ = $(1.136672 - (\ln(\text{hardness}) * 0.041838)) * e^{(0.9789 \ln(\text{hardness}) - 3.443)}$ Acute(cold) ⁽⁵⁾ = $(1.136672 - (\ln(\text{hardness}) * 0.041838)) * e^{(0.9789 \ln(\text{hardness}) - 3.866)}$ Chronic = $(1.101672 - (\ln(\text{hardness}) * 0.041838)) * e^{(0.7977 \ln(\text{hardness}) - 3.909)}$				
<u>Chlorophyll a⁽⁶⁾</u>	<u>See 31.17 TVS for Aquatic Life and/or Recreation and Direct Use Water Supply (DUWS).</u>				
Chromium III ^(Z6)	Acute = $e^{(0.819 \ln(\text{hardness}) + 2.5736)}$ Chronic = $e^{(0.819 \ln(\text{hardness}) + 0.5340)}$				
Chromium VI ^(Z6)	Acute = 16 Chronic = 11				
Copper	Acute = $e^{(0.9422 \ln(\text{hardness}) - 1.7408)}$ Chronic = $e^{(0.8545 \ln(\text{hardness}) - 1.7428)}$				
Lead	Acute = $(1.46203 - (\ln(\text{hardness}) * 0.145712)) * e^{(1.273 \ln(\text{hardness}) - 1.46)}$ Chronic = $(1.46203 - (\ln(\text{hardness}) * 0.145712)) * e^{(1.273 \ln(\text{hardness}) - 4.705)}$				
Manganese	Acute = $e^{(0.3331 \ln(\text{hardness}) + 6.4676)}$ Chronic = $e^{(0.3331 \ln(\text{hardness}) + 5.8743)}$				
Nickel	Acute = $e^{(0.846 \ln(\text{hardness}) + 2.253)}$ Chronic = $e^{(0.846 \ln(\text{hardness}) + 0.0554)}$				
<u>Nitrogen⁽⁶⁾</u>	<u>See 31.17 TVS for Aquatic Life and/or Recreation.</u>				
<u>Phosphorus⁽⁶⁾</u>	<u>See 31.17 TVS for Aquatic Life and/or Recreation.</u>				
Selenium ⁽⁸⁷⁾	Acute = 18.4 Chronic = 4.6				
Silver	Acute = $0.5 * e^{(1.72 \ln(\text{hardness}) - 6.52)}$ Chronic = $e^{(1.72 \ln(\text{hardness}) - 9.06)}$ Chronic(Trout) = $e^{(1.72 \ln(\text{hardness}) - 10.51)}$				
Temperature	TEMPERATURE TIER	TIER CODE	SPECIES EXPECTED TO BE PRESENT	APPLICABLE MONTHS	TEMPERATURE STANDARD (°C) MWAT DM

	Cold Stream Tier I	CS-I	brook trout, cutthroat trout	June – Sept.	17.0	21.7
				Oct. – May	9.0	13.0
	Cold Stream Tier II	CS-II	Other cold-water species	April – Oct.	18.3	24.3
				Nov. – March	9.0	13.0
	Cold Lake	CL	brook trout, brown trout, cutthroat trout, lake trout, rainbow trout, Arctic grayling, sockeye salmon	April – Dec.	17.0	21.2
				Jan. – March	9.0	13.0
	Cold Large Lakes (>100 acres surface area)	CLL	rainbow trout, brown trout, lake trout	April – Dec.	18.3	24.2
				Jan. – March	9.0	13.0
	Warm Stream Tier I	WS-I	common shiner, Johnny darter, orangethroat darter, stonecat	March – Nov.	24.2	29.0
				Dec. – Feb.	12.1	24.6
	Warm Stream Tier II	WS-II	brook stickleback, central stoneroller, creek chub, longnose dace, northern redbelly dace, finescale dace, razorback sucker, white sucker, mountain sucker	March – Nov.	27.5	28.6
				Dec. – Feb.	13.8	25.2
	Warm Stream Tier III	WS-III	all other warm-water species	March – Nov.	28.7	31.8
				Dec. – Feb.	14.3	24.9
Warm Lakes	WL	black crappie, bluegill, common carp, gizzard shad, golden shiner, largemouth bass, northern pike, pumpkinseed, sauger, smallmouth bass, spottail shiner, stonecat, striped bass, tiger muskellunge, walleye, wiper, white bass, white crappie, yellow perch	April – Dec.	26.2	29.3	
			Jan. – March	13.1	24.1	
Uranium	Acute = $e^{(1.1021*\ln(\text{hardness})+2.7088)}$ Chronic = $e^{(1.1021*\ln(\text{hardness})+2.2382)}$					
Zinc	Acute = $0.978*e^{(0.9094*\ln(\text{hardness})+0.9095)}$ Chronic = $0.986*e^{(0.9094*\ln(\text{hardness})+0.6235)}$					

TABLE VALUE STANDARDS - FOOTNOTES

- (1) Metals are stated as dissolved unless otherwise specified. Nitrogen and phosphorus standards are based upon the concentration of total nitrogen and total phosphorus.
- (2) Hardness values to be used in equations are in mg/L as calcium carbonate and shall be no greater than 400 mg/L, except for aluminum for which hardness shall be no greater than 220 mg/L. The hardness values used in calculating the appropriate metal standard should be based on the lower 95 per cent confidence limit of the mean hardness value at the periodic low flow criteria as determined from a regression analysis of site-specific data. Where insufficient site-specific data exists to define the mean hardness value at the periodic low flow criteria, representative regional data shall be used to perform the regression analysis. Where a regression analysis is not appropriate, a site-specific method should be used. In calculating a hardness value, regression analyses should not be extrapolated past the point that data exist.
- (3) Both acute and chronic numbers adopted as stream standards are levels not to be exceeded more than once every three years on the average.
- (4) For acute conditions the default assumption is that salmonids could be present in cold water segments and should be protected, and that salmonids do not need to be protected in warm water segments. For chronic conditions, the default assumptions are that early

life stages could be present all year in cold water segments and should be protected. In warm water segments the default assumption is that early life stages are present and should be protected only from April 1 through August 31. These assumptions can be modified by the commission on a site-specific basis where appropriate evidence is submitted. The "T" in the chronic equations stands for temperature.

- (5) The acute(warm) cadmium equation applies to segments classified as Aquatic Life Warm Class 1 or 2. The acute(cold) cadmium equation applies to segments classified as Aquatic Life Cold Class 1 or 2.
- (6) For lakes and reservoirs, the chlorophyll a, total nitrogen, and total phosphorus standards for Aquatic Life and Recreation apply only to lakes and reservoirs greater than 25 acres in surface area. The chlorophyll a standard for Direct Use Water Supply (DUWS) applies to lakes and reservoirs of any size.
- (76) Unless the stable forms of chromium in a waterbody have been characterized and shown not to be predominantly chromium VI, data reported as the measurement of all valence states of chromium combined should be treated as chromium VI. In addition, in no case can the sum of the concentrations of chromium III and chromium VI or data reported as the measurement of all valence states of chromium combined exceed the water supply standards of 50 µg/L chromium in those waters classified for domestic water use.
- (87) Selenium is a bioaccumulative metal and subject to a range of toxicity values depending upon numerous site-specific variables.

(4) Site-Specific Standards, Assessment Locations, and Assessment Criteria

- (a) Seasonal Aluminum Standards for Alamosa River/La Jara Creek/Conejos River Segment 8, Terrace Reservoir:

5/1-6/30 Near Surface:

Aluminum(chronic)=873(T) µg/L
Aluminum(acute)=TVS(T) µg/L
Aluminum(chronic)=59 µg/L
Aluminum(acute)=159 µg/L

5/1-6/30 Near Bottom:

Aluminum(chronic)=1,542(T) µg/L
Aluminum(acute)=5,583(T) µg/L
Aluminum(chronic)=41 µg/L
Aluminum(acute)=65 µg/L

7/1-4/30 Near Surface:

Aluminum(chronic)=102(T) µg/L
Aluminum(acute)=TVS(T) µg/L
Aluminum(chronic)=9 µg/L
Aluminum(acute)=15 µg/L

7/1-4/30 Near Bottom:

Aluminum(chronic)=227(T) µg/L
Aluminum(acute)= TVS(T) µg/L
Aluminum(chronic)=9 µg/L
Aluminum(acute)=12 µg/L

- (b) Site-specific standards and assessment locations for Rio Grande Segment 4a:

Standards effective through 12/31/2023

Low flow (August 1-March 31):

Cadmium(chronic)=0.50 µg/L
Manganese(chronic)=WS
Zinc(acute/chronic)=257 / 164 µg/L

High flow (April 1-July 31):

Cadmium(chronic)=0.42 µg/L
Manganese(chronic)=WS
Zinc(acute/chronic)=115 / 88 µg/L

Tier 1 standards effective 1/1/2024 through 12/31/2025

Low flow (August 1-March 31):

Cadmium(chronic)=0.49 µg/L

High flow (April 1-July 31):

Cadmium(chronic)=0.42 µg/L

Manganese(chronic)=81 µg/L
Zinc(acute/chronic)=253 / 162 µg/L

Manganese(chronic)=WS
Zinc(acute/chronic)=115 / 88 µg/L

Tier 2 standards effective from 1/1/2026

Low flow (August 1-March 31):

Cadmium(chronic)=TVS
Manganese(chronic)=WS
Zinc(acute/chronic)=142 / 64 µg/L

High flow (April 1-July 31):

Cadmium(chronic)=TVS
Manganese(chronic)=WS
Zinc(acute/chronic)=51 µg/L / TVS

Assessment Locations: For assessing the standards on Segment 4a, data from the following three locations will be combined:

- Station RG-4: Rio Grande downstream of Highway 149 bridge near Wason Ranch (37.821943, -106.889589)
- Station RG-8: Rio Grande upstream of Highway 149 bridge near La Garita Ranch Drive (37.777672, -106.836631)
- Station RG-9: Rio Grande downstream of 4 UR/Goose Creek Road bridge (37.765798, -106.830305)

(c) Site-specific standards and assessment locations for Rio Grande Segment 7:

Standards effective through 12/31/2023

West Willow

Low flow (August 1-March 31):

Cadmium(acute/chronic)=32.6 / 27.4 µg/L
Copper(acute/chronic)=TVS / TVS
Lead(acute/chronic)=108 / 102 µg/L
Manganese(acute/chronic)=3,320 / 2,425 µg/L
Zinc(acute/chronic)=11,960 / 9,360 µg/L

High flow (April 1-July 31):

Cadmium(acute/chronic)=22.5 / 15.5 µg/L
Copper(acute/chronic)=34.3 / 28.0 µg/L
Lead(acute/chronic)=TVS / 23.5 µg/L
Manganese(acute/chronic)=TVS / TVS
Zinc(acute/chronic)=4,001 / 3,765 µg/L

Windy Gulch

Low flow (August 1-March 31):

Cadmium(acute/chronic)=13.3 / 13.3 µg/L
Copper(acute/chronic)=TVS / TVS
Lead(acute/chronic)=TVS / TVS
Manganese(acute/chronic)=TVS / TVS
Zinc(acute/chronic)=3,584 / 3,492 µg/L

High flow (April 1-July 31):

Cadmium(acute/chronic)=7.1 / 5.9 µg/L
Copper(acute/chronic)=TVS / TVS
Lead(acute/chronic)=TVS / 1.68 µg/L
Manganese(acute/chronic)=TVS / TVS
Zinc(acute/chronic)=1,940 / 1,558 µg/L

Willow Creek

Low flow (August 1-March 31):

Cadmium(acute/chronic)=20.9 / 16.9 µg/L
Copper(acute/chronic)=TVS / TVS
Lead(acute/chronic)=TVS / 24.4 µg/L
Manganese(acute/chronic)=TVS / TVS
Zinc(acute/chronic)=5,861 / 5,427 µg/L

High flow (April 1-July 31):

Cadmium(acute/chronic)=10.9 / 8.5 µg/L
Copper(acute/chronic)=11.2 / 8.2 µg/L
Lead(acute/chronic)=TVS / 14.2 µg/L
Manganese(acute/chronic)=TVS / TVS
Zinc(acute/chronic)=2,667 / 1,873 µg/L

Tier 1 standards effective 1/1/2024 through 12/31/2025

West Willow

Low flow (August 1-March 31):

Cadmium(acute/chronic)=32.6 / 27.4 µg/L

High flow (April 1-July 31):

Cadmium(acute/chronic)=22.5 / 15.5 µg/L

Copper(acute/chronic)=TVS / TVS
Lead(acute/chronic)=108 / 102 µg/L
Manganese(acute/chronic)=3,320 / 2,425 µg/L
Zinc(acute/chronic)=11,960 / 9,360 µg/L

Copper(acute/chronic)=34.3 / 28.0 µg/L
Lead(acute/chronic)=TVS / 23.5 µg/L
Manganese(acute/chronic)=TVS / TVS
Zinc(acute/chronic)=4,001 / 3,765 µg/L

Windy Gulch

Low flow (August 1-March 31):

Cadmium(acute/chronic)=13.3 / 13.3 µg/L
Copper(acute/chronic)=TVS / TVS
Lead(acute/chronic)=TVS / TVS
Manganese(acute/chronic)=TVS / TVS
Zinc(acute/chronic)=3,584 / 3,492 µg/L

High flow (April 1-July 31):

Cadmium(acute/chronic)=7.1 / 5.9 µg/L
Copper(acute/chronic)=TVS / TVS
Lead(acute/chronic)=TVS / 1.68 µg/L
Manganese(acute/chronic)=TVS / TVS
Zinc(acute/chronic)=1,940 / 1,558 µg/L

Willow Creek

Low flow (August 1-March 31):

Cadmium(acute/chronic)=14.4 / 11.6 µg/L
Copper(acute/chronic)=TVS / TVS
Lead(acute/chronic)=TVS / 17.0 µg/L
Manganese(acute/chronic)=TVS / TVS
Zinc(acute/chronic)=4,041 / 3,743 µg/L

High flow (April 1-July 31):

Cadmium(acute/chronic)=9.5 / 7.4 µg/L
Copper(acute/chronic)=TVS / TVS
Lead(acute/chronic)=TVS / 12.5 µg/L
Manganese(acute/chronic)=TVS / TVS
Zinc(acute/chronic)=2,324 / 1,635 µg/L

Tier 2 standards effective from 1/1/2026

West Willow

Low flow (August 1-March 31):

Cadmium(acute/chronic)=19.1 / 13.0 µg/L
Copper(acute/chronic)=TVS / TVS
Lead(acute/chronic)=68.2 / 61.2 µg/L
Manganese(acute/chronic)=TVS / TVS
Zinc(acute/chronic)=6,055 / 3,011 µg/L

High flow (April 1-July 31):

Cadmium(acute/chronic)=14.9 / 7.7 µg/L
Copper(acute/chronic)=27.0 / 20.5 µg/L
Lead(acute/chronic)=TVS / 9.5 µg/L
Manganese(acute/chronic)=TVS / TVS
Zinc(acute/chronic)=2,498 / 2,254 µg/L

Windy Gulch

Low flow (August 1-March 31):

Cadmium(acute/chronic)=13.3 / 13.3 µg/L
Copper(acute/chronic)=TVS / TVS
Lead(acute/chronic)=TVS / TVS
Manganese(acute/chronic)=TVS / TVS
Zinc(acute/chronic)=3,584 / 3,492 µg/L

High flow (April 1-July 31):

Cadmium(acute/chronic)=7.1 / 5.9 µg/L
Copper(acute/chronic)=TVS / TVS
Lead(acute/chronic)=TVS / 1.68 µg/L
Manganese(acute/chronic)=TVS / TVS
Zinc(acute/chronic)=1,940 / 1,558 µg/L

Willow Creek

Low flow (August 1-March 31):

Cadmium(acute/chronic)=14.9 / 11.1 µg/L
Copper(acute/chronic)=TVS / TVS
Lead(acute/chronic)=TVS / 7.7 µg/L
Manganese(acute/chronic)=TVS / TVS
Zinc(acute/chronic)=3,521 / 3,106 µg/L

High flow (April 1-July 31):

Cadmium(acute/chronic)=6.3 / 4.0 µg/L
Copper(acute/chronic)=TVS / TVS
Lead(acute/chronic)=TVS / 6.0 µg/L
Manganese(acute/chronic)=TVS / TVS
Zinc(acute/chronic)=1,758 / 974 µg/L

Assessment Locations:

West Willow

- Station WW-A (WW-1): West Willow just above East Willow Confluence
(37.864431, -106.925529)

Windy Gulch

- Station WNG-A: Windy Gulch at mouth (37.856498, -106.928140)

Willow Creek

- Station W-C (a/k/a W-Flume and 8105D, designations differ among agencies): Willow Creek at Flume above Creede (37.855873, -106.927282)

- (d) Site-specific temperature assessment location for Closed Basin-San Luis Valley River Basin Segment 12b:

- Saguache Creek above Ford Creek (38.163367, -106.290418)

(5) **Stream Classifications and Water Quality Standards Tables**

The stream classifications and water quality standards tables in Appendix 36-1 are incorporated herein by reference.

The following is information regarding duration and measured form of standards in Appendix 36-1:

- (a) *E. coli* criteria and resulting standards for individual water segments are established as indicators of the potential presence of pathogenic organisms. Standards for *E. coli* are expressed as a two-month geometric mean. Site-specific or seasonal standards are also two-month geometric means unless otherwise specified.
- ~~(b) All phosphorus standards are based upon the concentration of total phosphorus. For total phosphorus, stream standards are expressed as an annual median and for lakes standards as a summer (July 1–September 30) average in the mixed layer. For chlorophyll a, stream standards are expressed as a maximum of attached algae and lakes standards as a summer (July 1–September 30) average in the mixed layer. For additional assessment details, see tables at Regulation 31.17(b) and (d).~~
- (~~eb~~) The pH standards of 6.5 (or 5.0) and 9.0 are an instantaneous minimum and maximum, respectively to be applied as effluent limits. In determining instream attainment of water quality standards for pH, appropriate averaging periods may be applied, provided that beneficial uses will be fully protected.
- (~~ec~~) All mercury standards apply to the total recoverable fraction of all forms, both organic and inorganic, of mercury in water.
- (~~ed~~) All ammonia, nitrate, and nitrite standards are based upon the concentration reported as nitrogen.

(6) **Discharger-specific Variances**

- (a) Alamosa River/La Jara Creek/Conejos River Segment 12 (CORGal12):

Discharger-specific Variance, Town of La Jara (CO0020150), Adopted 6/13/2022.

TIN (acute): Initial AEL=23 mg/L, Final AEL=14.5 mg/L.
Includes a Pollutant Minimization Program.
Expiration date: 12/31/2025.

36.7 - 36.9 RESERVED

36.49 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; NOVEMBER 14, 2022 RULEMAKING; FINAL ACTION _____; EFFECTIVE DATE APRIL 30, 2023

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

BASIS AND PURPOSE

A. Revision of Total Nitrogen and Total Phosphorus Table Value Standards for Lakes and Reservoirs at 31.17

In March 2012, the commission adopted interim numerical nutrient table value standards for chlorophyll *a* to protect the Aquatic Life, Recreation, and Direct Use Water Supply (DUWS) uses and table value standards for total nitrogen and total phosphorus to protect the Aquatic Life and Recreation uses (31.50) in lakes, reservoirs, rivers, and streams. In its July 2016 action letter for the March 2012 rulemaking hearing, EPA recommended revisiting the classification analysis for lakes and reservoirs to account for the variability between lakes (e.g., Cold and Warm lakes), evaluating confounding factors in the stressor-response relationship between nutrients and chlorophyll *a*, and evaluating whether the standards are protective of lakes with a high chlorophyll *a* yield per unit of nutrient.

In this hearing, the commission adopted revised total nitrogen and total phosphorus standards for lakes and reservoirs to address EPA's 2016 recommendations and ensure protective standards are adopted on lakes and reservoirs with Aquatic Life, Recreation, and/or DUWS uses (31.17 Table V). The numeric nutrient standards for total nitrogen and total phosphorus represent growing season (July through September) average concentrations with an allowable exceedance frequency is once in five years, and apply to lakes greater than 25 acres in size and with a residence time of at least 14 days. The commission adopted these standards into Regulation No. 31 and the basin regulations (Regulation Nos. 32-38) in this rulemaking; additional details about the revised total nitrogen and total phosphorus standards for lakes and reservoirs are included in 31.60.

B. Implementation of Nutrients Table Value Standards

The commission revised 36.5(4) to reflect the current status of the phased implementation framework for nutrients standards and remove information regarding implementation that concludes December 31, 2022. These revisions included removing language regarding phased implementation of chlorophyll *a* standards for lakes, reservoirs, rivers, and streams, as these standards now apply to all waterbodies with Aquatic Life, Recreation, and/or DUWS uses in Colorado. The information regarding the specific circumstances where nitrogen and phosphorus standards will apply before December 31, 2027 was clarified and includes additional references to 31.17. Also, to be consistent with past practice and the commission's intent in 31.55, the word "headwaters" was replaced with "waterbodies upstream of certain domestic and non-domestic wastewater treatment facilities". Finally, references to new Tables V (nutrients standards for lakes and reservoirs) and VI (nutrients standards for rivers and streams) in 31.17 were also added.

The commission revised the Table Value Standards table in 36.6(3) to include chlorophyll *a*, total nitrogen, and total phosphorus. Instead of replicating the numerical values for these table value standards, the table references 31.17, as 31.17 contains the numeric standards (in Tables V and VI), implementation information, and additional details regarding the phased implementation framework. As part of this change, the commission revised Footnote 1 to specify that the nitrogen and phosphorus standards are based upon the total concentration; this information was previously contained in 36.6(5)(b), which was deleted. Additionally, the commission adopted a new Footnote 6 that clarifies that, with the exception of the chlorophyll *a* standard to protect the DUWS sub-classification, the chlorophyll *a*, total nitrogen, and total phosphorus standards apply only to lakes and reservoirs larger than 25 acres surface area. The chlorophyll *a* standard to protect DUWS lakes and reservoirs applies to lakes and reservoirs of

all sizes. This information was previously included in the segment tables in Appendix 36-1, but was moved to Footnote 6 for clarity.

1. Nitrogen and Phosphorus Standards for Lakes, Reservoirs, Rivers, and Streams

a. Lakes and Reservoirs

Adoption of total phosphorus standards was previously limited to specific segments or portions of segments, as outlined in 31.50(VI)(A) (i.e., waterbodies above certain discharge facilities and site-specific situations where numeric standards were needed to protect uses). Prior to this rulemaking hearing, total nitrogen standards had not been adopted on any waterbodies. However, consistent with the phased implementation strategy developed in 2012 (31.50(VI)(A)) and 2017 (31.55), the commission expanded the adoption of the total phosphorus standards to also include all lake and reservoirs with the DUWS sub-classification and waterbodies with a public swim beach (defined as waterbodies with a natural swimming area per C.R.S § 25-5-801, including having a fee-based cordoned off swim area). The commission also adopted total nitrogen standards on the same set of waterbodies (i.e., waterbodies above certain discharge facilities, site-specific situations where numeric standards were needed to protect uses, DUWS, and swim beaches). Consistent with 31.17, the total phosphorus and total nitrogen standards apply only to lakes and reservoirs greater than 25 acres.

The commission previously considered the adoption of the DUWS sub-classification and notation in the Appendix 36-1 tables in previous rulemaking hearings and did not find any DUWS, but public swim beaches were identified in the current rulemaking. However, it was only necessary to specify the presence of a public swim beach in limited cases, because most public swim beaches in Colorado are also either classified as DUWS or located above certain discharge facilities; waterbodies falling into either of those categories are also assigned total nitrogen and total phosphorus standards. Therefore, the “Public Swim Beach” notation only needed to be applied to waterbodies where the total nitrogen and total phosphorus standards were only being applied due to the presence of a swim beach. In Regulation No. 36, no public swim beaches were identified. As a result, there was not a need to add total nitrogen and total phosphorus standards solely due to the presence of a public swim beach on any waterbodies.

b. Rivers and Streams

In rivers and streams, the commission did not adopt total phosphorus standards on any additional river or stream waterbodies or total nitrogen table value standards on any waterbodies, consistent with the phased implementation timeline outlined in 31.17 and 36.5(4).

c. Formatting of Nitrogen and Phosphorus Standards in Appendix 36-1

The commission changed how previously-adopted total phosphorus table value standards were presented in the segment tables in Appendix 36-1. Specifically, the table value standards were previously shown as numeric values, which were replaced with “TVS”. Similarly, any total nitrogen or total phosphorus standards adopted in this rulemaking hearing were adopted into the Appendix 36-1 tables as “TVS”. This approach allows the regulation to point directly to 31.17, which has a complete record of information regarding these table value standards.

2. Chlorophyll a Standards for Lakes, Reservoirs, Rivers, and Streams

The commission made no changes to the chlorophyll a standards to protect Aquatic Life, Recreation, and/or DUWS uses in lakes, reservoirs, rivers, or streams. In addition, the commission made no changes to existing site-specific chlorophyll a standards.

Adoption of chlorophyll a standards was previously limited to specific segments or portions of segments, as outlined in 31.50(VI)(A) (i.e., waterbodies above certain discharge facilities and site-specific situations where numeric standards were needed to protect uses). However, consistent with the phased implementation strategy developed in 2012 (31.50(VI)(A)) and 2017 (31.55), the commission expanded the adoption of chlorophyll a standards to all segments with Aquatic Life, Recreation, and/or DUWS uses.

Specifically, in this rulemaking hearing, the commission adopted the chlorophyll a table value standard of 8 µg/L for all cold water lakes or reservoirs (larger than 25 acres) with Aquatic Life or Recreation E, U, or P uses; 20 µg/L for all warm water lakes or reservoirs (larger than 25 acres) with Aquatic Life or Recreation E, U, or P uses; and 150 mg/m² for all cold or warm water streams with a Recreation E, U, or P use. In the segment tables in Appendix 36-1, these table value standards were adopted as “TVS” and any previously-adopted table value standards shown as numeric values were changed to “TVS”. This approach allows the regulation to point directly to 31.17, which has a complete record of information regarding these table value standards.

In addition, the commission adopted the table value standard of 5 µg/L for all lakes or reservoirs (of any size) with DUWS; however, there are no DUWS waterbodies in Regulation No. 36. The phased implementation of the chlorophyll a standards adoption is now complete.

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

5 CCR 1002-36

**REGULATION NO. 36
CLASSIFICATIONS AND NUMERIC STANDARDS
FOR
RIO GRANDE BASIN**

**APPENDIX 36-1
Stream Classifications and Water Quality Standards Tables**

Effective ~~09/30/2022~~04/30/2023

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
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 #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Rio Grande Basin

1. All tributaries to the Rio Grande, including all wetlands, within the Weminuche Wilderness Area.							
CORGRG01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 <i>*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 36.5(4).</i> <i>*Phosphorus(chronic) = applies only above the facilities listed at 36.5(4).</i> <i>*Uranium(acute) = See 36.5(3) for details.</i> <i>*Uranium(chronic) = See 36.5(3) for details.</i>		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	450*TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
					Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
2. Mainstem of the Rio Grande, including all tributaries and wetlands, from the source to a point immediately above the confluence with Willow Creek, excluding the listings in segments 1 and 3.							
CORGRG02	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 <i>*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 36.5(4).</i> <i>*Phosphorus(chronic) = applies only above the facilities listed at 36.5(4).</i> <i>*Uranium(acute) = See 36.5(3) for details.</i> <i>*Uranium(chronic) = See 36.5(3) for details.</i>		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	450*TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
					Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Rio Grande Basin

3. Mainstem of North Clear Creek from the outlet of Continental Reservoir to a point immediately above the confluence with Rito Hondo Creek.							
CORGRG03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Fish Ingestion Standards Apply		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
Other: *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m²)	---	150TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
			acute	chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	TVS	TVS
		Phosphorus	---	0.44TVS			
		Sulfate	---	---			
		Sulfide	---	0.002			
		4a. Mainstem of the Rio Grande from a point immediately above the confluence with Willow Creek to a point immediately above the confluence with the South Fork Rio Grande.					
CORGRG04A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	varies*
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Cadmium(chronic) = See 36.6(4) for site-specific standards and assessment locations. *Manganese(chronic) = See 36.6(4) for site-specific standards and assessment locations. *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details. *Zinc(acute) = See 36.6(4) for site-specific standards and assessment locations. *Zinc(chronic) = See 36.6(4) for site-specific standards and assessment locations.		chlorophyll a (mg/m²)	---	--TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	varies*
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	varies*	varies*

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Rio Grande Basin

4b. Mainstem of the Rio Grande from a point immediately above the confluence with South Fork Rio Grande to the Hwy 285 crossing.							
CORGRG04B		Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 36.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 36.5(3) for details.			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

4c. Mainstem of the Rio Grande from the Hwy 285 crossing to the Rio Grande/Alamosa County line.							
CORGRG04C		Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024			acute	chronic	Copper	TVS	TVS
*Uranium(acute) = See 36.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 36.5(3) for details.		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)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

4c. Mainstem of the Rio Grande from the Hwy 285 crossing to the Rio Grande/Alamosa County line.							
CORGRG04C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic		Copper	TVS	TVS
*Uranium(acute) = See 36.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 36.5(3) for details.		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)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Rio Grande Basin

5a. All tributaries to the Rio Grande, including all wetlands, from immediately above the confluence with Willow Creek to the Hwy 112 bridge near Del Norte, excluding the listings in segments 5b through 10.

CORGRG05A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	150 TVS	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
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

5b. Mainstem of Alder Creek. Mainstem of East Alder Creek, including all tributaries and wetlands, from the source to the confluence with Alder Creek. Mainstem of Agua Ramon Creek, including all tributaries and wetlands, from the source to the confluence with the Rio Grande. Mainstem of Embargo Creek, including all tributaries and wetlands, from immediately above the confluence with Dyers Creek to the confluence with the Rio Grande.

CORGRG05B	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---	
	Recreation E	acute		chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
				acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Rio Grande Basin

6. Mainstem of West Willow Creek from immediately above Deerhorn Creek to the Park Regent Mine dump (37.890445, -106.936868). East Willow Creek from the confluence with Whited Creek to the confluence with West Willow Creek.

CORGRG06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Aq Life Cold 1	DM		MWAT	acute		chronic
Reviewable	Recreation E	Temperature °C	CS-I	CS-I	Arsenic	340	---
Qualifiers:		acute		chronic	Arsenic(T)	---	7.6
Other:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
	*Uranium(acute) = See 36.5(3) for details.	pH	6.5 - 9.0	---	Chromium VI	TVS	TVS
	*Uranium(chronic) = See 36.5(3) for details.	chlorophyll a (mg/m²)	---	150 TVS	Copper	TVS	TVS
		E. coli (per 100 mL)	---	126	Iron(T)	---	1000
					Lead	TVS	TVS
		Inorganic (mg/L)			Manganese	TVS	TVS
		acute		chronic	Mercury(T)	---	0.01
		Ammonia	TVS	TVS	Molybdenum(T)	---	---
		Boron	---	---	Nickel	TVS	TVS
		Chloride	---	---	Selenium	TVS	TVS
		Chlorine	0.019	0.011	Silver	TVS	TVS(tr)
		Cyanide	0.005	---	Uranium	varies*	varies*
		Nitrate	---	---	Zinc	TVS	TVS
		Nitrite	---	0.05			
		Phosphorus	---	0.11 TVS			
		Sulfate	---	---			
		Sulfide	---	0.002			

7. Mainstem of West Willow Creek from the Park Regent Mine dump (37.890445, -106.936868) to the confluence with East Willow Creek. Mainstem of Willow Creek, including all tributaries, from the confluence of East and West Willow Creeks to the confluence with the Rio Grande.

CORGRG07	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute		chronic	
	UP	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
		Recreation E	acute		chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	varies*	varies*	
Other:	D.O. (spawning)	---	7.0	Chromium III	TVS	TVS		
	pH	6.5 - 9.0	---	Chromium III(T)	---	100		
*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 36.5(4).		chlorophyll a (mg/m²)	---	150*TVS	Chromium VI	TVS	TVS	
Phosphorus(chronic) = applies only above the facilities listed at 36.5(4).		E. coli (per 100 mL)	---	126	Copper	varies	varies*	
*Cadmium(acute) = See 36.6(4) for site-specific standards and assessment locations.					Iron(T)	---	1000	
Cadmium(chronic) = See 36.6(4) for site-specific standards and assessment locations.		Inorganic (mg/L)			Lead	varies	varies*	
Copper(acute) = See 36.6(4) for site-specific standards and assessment locations.			acute	chronic	Manganese	varies	varies*	
*Copper(chronic) = See 36.6(4) for site-specific standards and assessment locations.		Ammonia	TVS	TVS	Mercury(T)	---	0.01	
*Lead(acute) = See 36.6(4) for site-specific standards and assessment locations.		Boron	---	0.75	Molybdenum(T)	---	150	
*Lead(chronic) = See 36.6(4) for site-specific standards and assessment locations.		Chloride	---	---	Nickel	TVS	TVS	
*Manganese(acute) = See 36.6(4) for site-specific standards and assessment locations.		Chlorine	0.019	0.011	Selenium	TVS	TVS	
*Manganese(chronic) = See 36.6(4) for site-specific standards and assessment locations.		Cyanide	0.005	---	Silver	TVS	TVS	
Uranium(acute) = See 36.5(3) for details.		Nitrate	100	---	Uranium	varies	varies*	
Uranium(chronic) = See 36.5(3) for details.		Nitrite	10	---	Zinc	varies	varies*	
Zinc(acute) = See 36.6(4) for site-specific standards and assessment locations.		Phosphorus	---	0.11TVS				
*Zinc(chronic) = See 36.6(4) for site-specific standards and assessment locations.		Sulfate	---	---				
		Sulfide	---	0.002				

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Rio Grande Basin

8. Mainstem of Goose Creek, including all tributaries and wetlands, from the source to the confluence with the Rio Grande, excluding the specific listings in segment 1.								
CORGRG08	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
					Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	
		9a. Mainstem of the South Fork Rio Grande, including all tributaries and wetlands, from the source to a point just below the confluence with Decker Creek, excluding the specific listings in segment 1. Mainstem of Beaver Creek, including all tributaries and wetlands, from the source to the inlet of Beaver Creek Reservoir.						
		CORGRG09A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 36.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 36.5(4). *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	450* TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
					Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.44 TVS*	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Rio Grande Basin

9b. Mainstem of the South Fork Rio Grande, including all tributaries and wetlands, from a point just below the confluence with Decker Creek to the confluence with the Rio Grande, excluding the specific listings in segment 9a.									
CORGRG09B		Classifications		Physical and Biological		Metals (ug/L)			
Designation	Agriculture		DM	MWAT		acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---		
	Recreation E		acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS		
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---		
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS		
Other:		chlorophyll a (mg/m²)	---	450*TVS	Chromium III(T)	50	---		
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS		
Arsenic(chronic) = hybrid					Copper	TVS	TVS		
Expiration Date of 12/31/2024					Iron	---	WS		
*Chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 36.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 36.5(4). *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		Inorganic (mg/L)			Iron(T)	---	1000		
			acute	chronic	Lead	TVS	TVS		
		Ammonia	TVS	TVS	Lead(T)	50	---		
		Boron	---	0.75	Manganese	TVS	TVS/WS		
		Chloride	---	250	Mercury(T)	---	0.01		
		Chlorine	0.019	0.011	Molybdenum(T)	---	150		
		Cyanide	0.005	---	Nickel	TVS	TVS		
		Nitrate	10	---	Nickel(T)	---	100		
		Nitrite	---	0.05	Selenium	TVS	TVS		
		Phosphorus	---	0.14TVS*	Silver	TVS	TVS(tr)		
		Sulfate	---	WS	Uranium	varies*	varies*		
		Sulfide	---	0.002	Zinc	TVS	TVS		
		10. Mainstem of Pinos Creek, including all tributaries and wetlands, from the source to the confluence with the Rio Grande.							
		CORGRG10		Classifications		Physical and Biological		Metals (ug/L)	
		Designation	Agriculture		DM	MWAT		acute	chronic
		Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
Recreation E			acute	chronic	Arsenic(T)	---	0.02		
Water Supply	D.O. (mg/L)		---	6.0	Cadmium	TVS	TVS		
	D.O. (spawning)		---	7.0	Cadmium(T)	5.0	---		
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS		
Other:		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---		
*Uranium(acute) = See 36.5(3) for details.		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS		
*Uranium(chronic) = See 36.5(3) for details.					Copper	TVS	TVS		
		Inorganic (mg/L)			Iron	---	WS		
			acute	chronic	Iron(T)	---	1000		
		Ammonia	TVS	TVS	Lead	TVS	TVS		
		Boron	---	0.75	Lead(T)	50	---		
		Chloride	---	250	Manganese	TVS	TVS/WS		
		Chlorine	0.019	0.011	Mercury(T)	---	0.01		
		Cyanide	0.005	---	Molybdenum(T)	---	150		
		Nitrate	10	---	Nickel	TVS	TVS		
		Nitrite	---	0.05	Nickel(T)	---	100		
		Phosphorus	---	0.14TVS	Selenium	TVS	TVS		
		Sulfate	---	WS	Silver	TVS	TVS(tr)		
		Sulfide	---	0.002	Uranium	varies*	varies*		
					Zinc	TVS	TVS		

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Rio Grande Basin

11. Mainstem of San Francisco Creek (Rio Grande County), including all tributaries and wetlands, from the source to the confluence with the Rio Grande.							
CORGRG11	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 36.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 36.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
12. Mainstem of the Rio Grande from the Rio Grande/Alamosa County line to Conejos County Road G (37.07831, -105.75665).							
CORGRG12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Water Supply	acute	chronic	Arsenic(T)	---	0.02	
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS	TVS	
*Uranium(acute) = See 36.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 36.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

12. Mainstem of the Rio Grande from the Rio Grande/Alamosa County line to Conejos County Road G (37.07831, -105.75665).							
CORGRG12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Water Supply	acute	chronic	Arsenic(T)	---	0.02	
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m ²)	---	--- TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS	TVS	
*Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Rio Grande Basin

13. Mainstem of the Rio Grande from Conejos County Road G (37.07831, -105.75665) to the Colorado/New Mexico border.							
CORGRG13	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m²)	---	TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
		Inorganic (mg/L)			Iron(T)	---	1000
		acute	chronic		Lead	TVS	TVS
		Ammonia	TVS	TVS	Manganese	TVS	TVS
		Boron	---	0.75	Mercury(T)	---	0.01
		Chloride	---	---	Molybdenum(T)	---	150
		Chlorine	0.019	0.011	Nickel	TVS	TVS
		Cyanide	0.005	---	Selenium	TVS	TVS
		Nitrate	100	---	Silver	TVS	TVS
		Nitrite	---	0.05	Uranium	varies*	varies*
		Phosphorus	---	---	Zinc	TVS	TVS
		Sulfate	---	---			
		Sulfide	---	0.002			

14. Mainstems of Dry Pole Creek, Limekiln Creek, Nicomodes Gulch, Raton Creek, and Dry Creek, including all tributaries and wetlands, within the boundaries of the Rio Grande National Forest.							
CORGRG14	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	TVS	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	---	TVS	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Rio Grande Basin

15. All tributaries to the Rio Grande from the Hwy 112 bridge near Del Norte to the Colorado/New Mexico border, excluding the listings in segments 11, 14, and 16 through 31.					
CORGRG15	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
UP	Recreation N			Arsenic(T)	0.02-10 ^A
	Water Supply	acute	chronic	Beryllium(T)	4.0
Qualifiers:		D.O. (mg/L)	3.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	Chromium III(T)	50
*Uranium(acute) = See 36.5(3) for details.		chlorophyll a (mg/m ²)	---	Chromium VI	---
*Uranium(chronic) = See 36.5(3) for details.		E. coli (per 100 mL)	630	Chromium VI(T)	50
		Inorganic (mg/L)		Copper(T)	200
		acute	chronic	Iron	WS
		Ammonia	---	Lead(T)	50
		Boron	0.75	Manganese	WS
		Chloride	250	Mercury(T)	2.0
		Chlorine	---	Molybdenum(T)	150
		Cyanide	0.2	Nickel(T)	100
		Nitrate	10	Selenium(T)	20
		Nitrite	1.0	Silver(T)	100
		Phosphorus	---	Uranium	varies*
		Sulfate	WS	Zinc(T)	2000
		Sulfide	0.05		

16. All tributaries to the Rio Grande, including wetlands, within the Alamosa National Wildlife Refuge, excluding the specific listing in segment 12.					
CORGRG16	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-III	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	100
Qualifiers:		D.O. (mg/L)	5.0	Cadmium	TVS
Other:		pH	6.5 - 9.0	Chromium III	TVS
*Uranium(acute) = See 36.5(3) for details.		chlorophyll a (mg/m ²)	150TVS	Chromium III(T)	100
*Uranium(chronic) = See 36.5(3) for details.		E. coli (per 100 mL)	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS
		acute	chronic	Iron(T)	1000
		Ammonia	TVS	Lead	TVS
		Boron	0.75	Manganese	TVS
		Chloride	---	Mercury(T)	0.01
		Chlorine	0.019	Molybdenum(T)	150
		Cyanide	0.005	Nickel	TVS
		Nitrate	100	Selenium	TVS
		Nitrite	0.05	Silver	TVS
		Phosphorus	0.47TVS	Uranium	varies*
		Sulfate	---	Zinc	TVS
		Sulfide	0.002		

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Rio Grande Basin

17. All tributaries to the Rio Grande, including wetlands, within the Monte Vista National Wildlife Refuge.							
CORGRG17	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m²)	---	150 TVS	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	---	0.47 TVS	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

18. All wetlands tributary to the Rio Grande from the Hwy 112 bridge near Del Norte to the Colorado/New Mexico border, excluding the specific listings in segments 16, 17, 19, 20a, 21a, 21b, 23a, 25, 28, 30 and 31.							
CORGRG18	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m²)	---	TVS	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	---	---	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

18. All wetlands tributary to the Rio Grande from the Hwy 112 bridge near Del Norte to the Colorado/New Mexico border, excluding the specific listings in segments 16, 17, 19, 20a, 21a, 21b, 23a, 25, 28, 30 and 31.							
CORGRG18	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	100	
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m²)	---	---TVS	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	---	---	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Rio Grande Basin

19. Mainstem of Rock Creek, including all tributaries and wetlands, from the source to the Monte Vista Canal (37.52773, -106.16826).								
CORGRG19	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
		acute	chronic	Iron(T)	---	1000		
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
						Zinc	TVS	TVS
20a. Mainstem of Cat Creek, including all tributaries and wetlands, from the source to the Rio Grande National Forest boundary.								
CORGRG20A	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---	
	Water Supply	acute	chronic	Arsenic(T)	---	0.02		
	Recreation E	D.O. (mg/L)	---	6.0	Beryllium(T)	---	100	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS	
Other: *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details. *Temperature = DM and MWAT=CS-I from 10/1-4/30 DM and MWAT=CS-I from 5/1-9/30		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III	---	TVS	
		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---	
					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	---	0.44 TVS	Nickel(T)	---	100	
		Sulfate	---	WS	Selenium	TVS	TVS	
		Sulfide	---	0.002	Silver	TVS	TVS(tr)	
						Uranium	varies*	varies*
				Zinc	TVS	TVS		

20a. Mainstem of Cat Creek, including all tributaries and wetlands, from the source to the Rio Grande National Forest boundary.							
CORGRG20A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---
	Water Supply		acute	chronic	Arsenic(T)	---	0.02
	Recreation E	D.O. (mg/L)	---	6.0	Beryllium(T)	---	100
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details. *Temperature = DM and MWAT=CS-I from 10/1-4/30 DM and MWAT=CS-I from 5/1-9/30		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
		chlorophyll a (mg/m ²)	---	150TVS	Chromium III	---	TVS
		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
					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	---	0.44TVS	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Rio Grande Basin

20b. Mainstem of Cat Creek from the Rio Grande National Forest boundary to the Terrace Main Canal.

CORGRG20B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 2 Recreation E	Temperature °C	CS-II	CS-II	Arsenic	340	---
Qualifiers:		acute	chronic		Arsenic(T)	---	7.6
Other:		D.O. (mg/L)	---	6.0	Beryllium(T)	---	100
		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	---	100
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron(T)	---	1000
		acute	chronic		Lead	TVS	TVS
		Ammonia	TVS	TVS	Manganese	TVS	TVS
		Boron	---	0.75	Mercury(T)	---	0.01
		Chloride	---	---	Molybdenum(T)	---	150
		Chlorine	0.019	0.011	Nickel	TVS	TVS
		Cyanide	0.005	---	Selenium	TVS	TVS
		Nitrate	100	---	Silver	TVS	TVS(tr)
		Nitrite	---	0.05	Uranium	varies*	varies*
		Phosphorus	---	0.44TVS	Zinc	TVS	TVS
		Sulfate	---	---			
		Sulfide	---	0.002			

21a. Mainstem of Ute Creek, including all tributaries and wetlands, from the source to the crossing at 37.5000, -105.39643.

CORGRG21A	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:		acute	chronic		Arsenic(T)	---	0.02
Other:		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)	---	450TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Rio Grande Basin

21b. Mainstem of Ute Creek, including all tributaries and wetlands, from the crossing at 37.5000, -105.39643 to Hwy 160.							
CORGRG21B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	varies*	CS-I*	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 36.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 36.5(3) for details.		acute	chronic	Iron(T)	---	1000	
*Temperature =		Ammonia	TVS	TVS	Lead	TVS	TVS
DM=CS-I from 10/1-5/31		Boron	---	0.75	Lead(T)	50	---
DM=22.3 from 6/1-9/30		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

22. Mainstem of Ute Creek from Hwy 160 to the confluence with Sangre de Cristo Creek.							
CORGRG22	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02-10	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 36.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 36.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

22. Mainstem of Ute Creek from Hwy 160 to the confluence with Sangre de Cristo Creek.							
CORGRG22	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02-10	^A
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
					Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Rio Grande Basin

23a. Mainstem of Sangre de Cristo Creek, including all tributaries and wetlands, from the source to Hwy 159, excluding the specific listings in segment 23b.							
CORGRG23A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m²)	---	450TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
					Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	TVS	TVS
		Phosphorus	---	0.44TVS			
		Sulfate	---	---			
		Sulfide	---	0.002			
		23b. Mainstem of Sangre de Cristo Creek from a point immediately below the confluence with Placer Creek to Hwy 159.					
CORGRG23B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---
	Water Supply		acute	chronic	Arsenic(T)	---	0.02
	Recreation E	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other: *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details. *Temperature = DM=14.7 and MWAT=9 from 10/1-4/30 DM=25.3 and MWAT=19 from 5/1-9/30		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
					Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Rio Grande Basin

24. Mainstem of Sangre de Cristo Creek from Hwy 159 to the inlet of Smith Reservoir.

CORGRG24	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 2 Recreation E	Temperature °C	CS-II	CS-II	Arsenic	340	---
Qualifiers:		acute	chronic		Arsenic(T)	---	100
Other:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m ²)	---	450TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
		acute	chronic		Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	TVS	TVS
		Phosphorus	---	0.44TVS			
		Sulfate	---	---			
		Sulfide	---	0.002			

25. Mainstem of Trinchera Creek, including all tributaries and wetlands, from the source to the inlet of Mountain Home Reservoir.

CORGRG25	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:		acute	chronic		Arsenic(T)	---	0.02
Other:		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)	---	450TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Rio Grande Basin

26. Mainstem of Trinchera Creek from the outlet of Mountain Home Reservoir to the Rio Grande.						
CORGRG26	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340
	Water Supply	acute	chronic	Arsenic(T)	---	0.02-10 ^A
	Recreation E	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
					Copper	TVS
		Inorganic (mg/L)			Iron	---
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	0.14TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

27. Deleted.						
CORGRG27	Classifications	Physical and Biological		Metals (ug/L)		
Designation		DM	MWAT	acute	chronic	
Qualifiers:		acute	chronic			
Other:						
		Inorganic (mg/L)				
		acute	chronic			

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Rio Grande Basin

28. Mainstem of Rito Seco, including all tributaries and wetlands, from the source to the road crossing at 37.218809, -105.411762.						
CORGRG28	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150TVS	Chromium III(T)	50
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS
Expiration Date of 12/31/2024					Copper	TVS
		Inorganic (mg/L)			Iron	---
*Uranium(acute) = See 36.5(3) for details.		acute	chronic	Iron(T)	---	1000
*Uranium(chronic) = See 36.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	0.14TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

29. Mainstem of Rito Seco from the road crossing at 37.218809, -105.411762 to the confluence with Culebra Creek.						
CORGRG29	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02-10 A
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150TVS	Chromium III(T)	50
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS
Expiration Date of 12/31/2024					Copper	TVS
		Inorganic (mg/L)			Iron	---
*Uranium(acute) = See 36.5(3) for details.		acute	chronic	Iron(T)	---	1000
*Uranium(chronic) = See 36.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	0.14TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Rio Grande Basin

30. Mainstem of Culebra Creek, including all tributaries and wetlands, from the source to the Culebra Sanchez Canal diversion, excluding the specific listings in segment 31. East Fork and West Fork of Costilla Creek, including all tributaries and wetlands, within Colorado.

CORGRG30	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
*Uranium(acute) = See 36.5(3) for details.		acute		chronic	Iron(T)	---	1000
*Uranium(chronic) = See 36.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

31. Mainstem of Culebra Creek from the Sanchez Canal diversion to Hwy 159. Mainstem of Ventero Creek from the Colorado/New Mexico border to the confluence with Culebra Creek. Mainstem of Costilla Creek, including all tributaries and wetlands within Colorado, excluding the listings for the East and West Forks in segment 30.

CORGRG31	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 36.5(4).		Inorganic (mg/L)			Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 36.5(4).		acute		chronic	Iron(T)	---	1000
*Uranium(acute) = See 36.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 36.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11 TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Rio Grande Basin

32. All lakes and reservoirs tributary to the Rio Grande, and within the Weminuche Wilderness Area.						
CORGRG32	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
OW	Aq Life Cold 1	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
<p>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Uranium(acute) = See 36.5(3) for details.</p> <p>*Uranium(chronic) = See 36.5(3) for details.</p>		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)			Copper	TVS
		acute	chronic		Iron	---
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Nitrogen	---	TVS	Nickel(T)	---
		Phosphorus	---	0.025*TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

33. All lakes and reservoirs tributary to the Rio Grande from the source to the Hwy 112 bridge near Del Norte, excluding the specific listings in segments 32 and 38. All lakes and reservoirs tributary to San Francisco Creek from the source to a point immediately below the confluence with Spring Branch.						
CORGRG33	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
<p>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Uranium(acute) = See 36.5(3) for details.</p> <p>*Uranium(chronic) = See 36.5(3) for details.</p>		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)			Copper	TVS
		acute	chronic		Iron	---
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Nitrogen	---	TVS	Nickel(T)	---
		Phosphorus	---	0.025*TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Rio Grande Basin

34. All lakes and reservoirs tributary to Dry Pole Creek, Limekiln Creek, Nicomodes Gulch, Raton Creek, or Dry Creek, and within the boundaries of the Rio Grande National Forest. All lakes and reservoirs tributary to Rock Creek from the source to the Monte Vista Canal (37.52773, -106.16826).

CORGRG34	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	CL	CL	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---
	Water Supply	D.O. (mg/L)	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	7.0	Cadmium(T)	5.0
Other: *Chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		pH	6.5 - 9.0	Chromium III	TVS
		chlorophyll a (ug/L)	8*TVS	Chromium III(T)	50
		E. coli (per 100 mL)	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS
		acute	chronic	Iron	WS
		Ammonia	TVS	Iron(T)	1000
		Boron	0.75	Lead	TVS
		Chloride	250	Lead(T)	50
		Chlorine	0.019	Manganese	TVS
		Cyanide	0.005	Mercury(T)	0.01
		Nitrate	10	Molybdenum(T)	150
		Nitrite	0.05	Nickel	TVS
		Nitrogen	TVS	Nickel(T)	100
		Phosphorus	0.025*TVS	Selenium	TVS
		Sulfate	WS	Silver	TVS
		Sulfide	0.002	Uranium	varies*
				Zinc	TVS

35. All lakes and reservoirs tributary to the Rio Grande from the Hwy 112 bridge near Del Norte to the Colorado/New Mexico border, excluding the specific listings in segments 34, 36, 37, 38 and 39.

CORGRG35	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
UP	Aq Life Warm 2	WL	WL	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	7.6
Qualifiers:		D.O. (mg/L)	5.0	Cadmium	TVS
Fish Ingestion Standards Apply		pH	6.5 - 9.0	Chromium III	TVS
Other: *Chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		chlorophyll a (ug/L)	20*TVS	Chromium III(T)	100
		E. coli (per 100 mL)	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS
		acute	chronic	Iron(T)	1000
		Ammonia	TVS	Lead	TVS
		Boron	0.75	Manganese	TVS
		Chloride	---	Mercury(T)	0.01
		Chlorine	0.019	Molybdenum(T)	150
		Cyanide	0.005	Nickel	TVS
		Nitrate	100	Selenium	TVS
		Nitrite	0.05	Silver	TVS
		Nitrogen	TVS	Uranium	varies*
		Phosphorus	0.083*TVS	Zinc	TVS
		Sulfate	---		
		Sulfide	0.002		

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Rio Grande Basin

36. All lakes and reservoirs tributary to Ute Creek, from the source to Hwy 160. All lakes and reservoirs tributary to Sangre de Cristo Creek, from the source to Hwy 159. All lakes and reservoirs tributary to Trinchera Creek, from the source to the inlet of Mountain Home Reservoir. All lakes and reservoirs tributary to Rito Seco, from the source to Salzar Reservoir. All lakes and reservoirs tributary to Culebra Creek, from the source to Hwy 159, excluding the specific listing in segment 37. All lakes and reservoirs tributary to Costilla Creek, and within Colorado.

CORGRG36	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	CL	CL	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---
	Water Supply				0.02
Qualifiers:		D.O. (mg/L)	---	Cadmium	TVS
Other:		D.O. (spawning)	---	Cadmium(T)	---
<p>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Uranium(acute) = See 36.5(3) for details.</p> <p>*Uranium(chronic) = See 36.5(3) for details.</p>		pH	6.5 - 9.0	Chromium III	TVS
		chlorophyll a (ug/L)	---	Chromium III(T)	---
		E. coli (per 100 mL)	---	Chromium VI	TVS
				Copper	TVS
				Iron	WS
		Inorganic (mg/L)		Iron(T)	1000
		acute	chronic	Lead	TVS
		Ammonia	TVS	Lead(T)	---
		Boron	---	Manganese	TVS/WS
		Chloride	---	Mercury(T)	---
		Chlorine	0.019	Molybdenum(T)	150
		Cyanide	0.005	Nickel	TVS
		Nitrate	10	Nickel(T)	100
		Nitrite	---	Selenium	TVS
		Nitrogen	---	Silver	TVS(tr)
		Phosphorus	---	Uranium	varies*
		Sulfate	WS	Zinc	TVS
		Sulfide	0.002		

37. Sanchez Reservoir.

CORGRG37	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Warm 1	WL	WL	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---
	Water Supply				0.02
Qualifiers:		D.O. (mg/L)	---	Cadmium	TVS
Other:		pH	6.5 - 9.0	Cadmium(T)	---
<p>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Uranium(acute) = See 36.5(3) for details.</p> <p>*Uranium(chronic) = See 36.5(3) for details.</p>		chlorophyll a (ug/L)	---	Chromium III	TVS
		E. coli (per 100 mL)	---	Chromium III(T)	---
				Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS
		acute	chronic	Iron	WS
		Ammonia	TVS	Iron(T)	1000
		Boron	---	Lead	TVS
		Chloride	---	Lead(T)	---
		Chlorine	0.019	Manganese	TVS/WS
		Cyanide	0.005	Mercury(T)	---
		Nitrate	10	Molybdenum(T)	150
		Nitrite	---	Nickel	TVS
		Nitrogen	---	Nickel(T)	100
		Phosphorus	---	Selenium	TVS
		Sulfate	WS	Silver	TVS
		Sulfide	0.002	Uranium	varies*
				Zinc	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

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

38. Continental Reservoir, Upper Brown Lake, Santa Maria Reservoir, Road Canyon Reservoir, Rio Grande Reservoir, Big Meadows Reservoir, Beaver Creek Reservoir, Smith Reservoir, Mountain Home Reservoir.

CORGRG38	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CLL	CLL	Arsenic	340	---	
	Recreation E		acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
Other:		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
			Inorganic (mg/L)		Iron	---	WS	
				acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Nitrogen	---	-	TVS	Selenium	TVS	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS	TVS(tr)	
		Sulfate	---	WS	Uranium	varies*	varies*	
		Sulfide	---	0.002	Zinc	TVS	TVS	

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Alamosa River/La Jara Creek/Conejos River Basins

1. All tributaries to the Alamosa River or Conejos River, including all wetlands, within the South San Juan Wilderness area.								
CORGAL01	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
*Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
		acute			chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	
		2. Mainstem of the Alamosa River, including all tributaries and wetlands, from the source to immediately above the confluence with Alum Creek, except for specific listings in segments 1, 4a, and 4b. Tributaries to the Alamosa River from a point immediately below the confluence of Bitter Creek to the inlet of Terrace Reservoir, except for specific listings in segments 4a, 5, 6, and 7.						
CORGAL02	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
*Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
		acute			chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Alamosa River/La Jara Creek/Conejos River Basins

3a. Mainstem of the Alamosa River from immediately above the confluence with Alum Creek to immediately above the confluence of Wightman Fork.						
CORGAL03A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
UP	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Aluminum	varies*
	Recreation E	acute	chronic		Aluminum	varies*
Qualifiers:		D.O. (mg/L)	---	6.0	Arsenic	340
Other:		D.O. (spawning)	---	7.0	Arsenic(T)	---
		pH	varies*	---	Cadmium	TVS
		chlorophyll a (mg/m ²)	---	450TVS	Chromium III	TVS
		E. coli (per 100 mL)	---	126	Chromium III(T)	---
					Chromium VI	TVS
		Inorganic (mg/L)			Copper	TVS
		acute	chronic		Iron(T)	---
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Manganese	TVS
		Chloride	---	---	Mercury(T)	---
		Chlorine	0.019	0.011	Molybdenum(T)	---
		Cyanide	0.005	---	Nickel	TVS
		Nitrate	100	---	Selenium	TVS
		Nitrite	---	0.05	Silver	TVS
		Phosphorus	---	0.44TVS	Uranium	varies*
		Sulfate	---	---	Zinc	TVS
		Sulfide	---	0.002		

*Aluminum(acute) = 280 ug/L and 3,886(T) from 5/1-6/30
5,666 ug/L and 21,036(T) from 7/1-4/30
*Aluminum(chronic) = 95 ug/L and 1,157(T) from 5/1-6/30
4,073 ug/L and 3,026(T) from 7/1-4/30
*Uranium(acute) = See 36.5(3) for details.
*Uranium(chronic) = See 36.5(3) for details.
*pH(acute) = 4.0-9.0 from 3/1-5/31
4.73-9.0 from 6/1 - 8/31
3.94-9.0 from 9/1-11/31
3.52 - 9.0 from 12/1-2/29

3b. Mainstem of the Alamosa River from immediately above the confluence with Wightman Fork to immediately above the confluence with Fern Creek.						
CORGAL03B	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
UP	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	varies*
	Recreation E	acute	chronic		Aluminum	varies*
Qualifiers:		D.O. (mg/L)	---	6.0	Arsenic	340
Other:		D.O. (spawning)	---	7.0	Arsenic(T)	---
		pH	6.5 - 9.0	---	Cadmium	TVS
		chlorophyll a (mg/m ²)	---	450TVS	Chromium III	TVS
		E. coli (per 100 mL)	---	126	Chromium III(T)	---
					Chromium VI	TVS
		Inorganic (mg/L)			Copper	TVS
		acute	chronic		Iron(T)	---
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Manganese	TVS
		Chloride	---	---	Mercury(T)	---
		Chlorine	0.019	0.011	Molybdenum(T)	---
		Cyanide	0.005	---	Nickel	TVS
		Nitrate	100	---	Selenium	TVS
		Nitrite	---	0.05	Silver	TVS
		Phosphorus	---	0.44TVS	Uranium	varies*
		Sulfate	---	---	Zinc	TVS
		Sulfide	---	0.002		

*Aluminum(acute) = 59 ug/L and 4,556(T) from 5/1-6/30
741 ug/L and TVS(T) from 7/1-4/30
*Aluminum(chronic) = 41 ug/L and 1,246(T) from 5/1-6/30
382 ug/L and 2,661(T) from 7/1-4/30
*Uranium(acute) = See 36.5(3) for details.
*Uranium(chronic) = See 36.5(3) for details.

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Alamosa River/La Jara Creek/Conejos River Basins

3c. Mainstem of the Alamosa River from immediately above the confluence with Fern Creek to immediately below the confluence with Ranger Creek.						
CORGAL03C	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
UP	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	varies*
	Recreation E	acute	chronic		Aluminum	varies*
Qualifiers:		D.O. (mg/L)	---	6.0	Arsenic	340
Other:		D.O. (spawning)	---	7.0	Arsenic(T)	7.6
*Aluminum(acute) = 365 ug/L and 6,729(T) from 5/1-6/30 558 ug/L and TVS(T) from 7/1-4/30 *Aluminum(chronic) = 63 ug/L and 1,973(T) from 5/1-6/30 296 ug/L and 2,232(T) from 7/1-4/30 *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		pH	6.5 - 9.0	---	Cadmium	TVS
		chlorophyll a (mg/m ²)	---	450TVS	Chromium III	TVS
		E. coli (per 100 mL)	---	126	Chromium III(T)	100
					Chromium VI	TVS
		Inorganic (mg/L)			Copper	TVS
		acute	chronic		Iron(T)	12000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Manganese	TVS
		Chloride	---	---	Mercury(T)	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	150
		Cyanide	0.005	---	Nickel	TVS
		Nitrate	100	---	Selenium	TVS
		Nitrite	---	0.05	Silver	TVS(tr)
		Phosphorus	---	0.44TVS	Uranium	varies*
		Sulfate	---	---	Zinc	TVS
		Sulfide	---	0.002		

3d. Mainstem of the Alamosa River from immediately below the confluence with Ranger Creek to the inlet of Terrace Reservoir.						
CORGAL03D	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	varies*
	Recreation E	acute	chronic		Aluminum	varies*
Qualifiers:		D.O. (mg/L)	---	6.0	Arsenic	340
Other:		D.O. (spawning)	---	7.0	Arsenic(T)	7.6
*Aluminum(acute) = 77 ug/L and 6,907(T) from 5/1-6/30 84 ug/L and TVS(T) from 7/1-4/30 *Aluminum(chronic) = 74 ug/L and 1,721(T) from 5/1-6/30 60 ug/L and 1,554(T) from 7/1-4/30 *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		pH	6.5 - 9.0	---	Cadmium	TVS
		chlorophyll a (mg/m ²)	---	450TVS	Chromium III	TVS
		E. coli (per 100 mL)	---	126	Chromium III(T)	100
					Chromium VI	TVS
		Inorganic (mg/L)			Copper	TVS
		acute	chronic		Iron(T)	12000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Manganese	TVS
		Chloride	---	---	Mercury(T)	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	150
		Cyanide	0.005	---	Nickel	TVS
		Nitrate	100	---	Selenium	TVS
		Nitrite	---	0.05	Silver	TVS(tr)
		Phosphorus	---	0.44TVS	Uranium	varies*
		Sulfate	---	---	Zinc	TVS
		Sulfide	---	0.002		

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Alamosa River/La Jara Creek/Conejos River Basins

4a. Mainstems of Iron Creek, Alum Creek, Bitter Creek, and Burnt Creek, including all tributaries and wetlands, from their sources to their confluences with the Alamosa River, excluding the listings in segment 4b.					
CORGAL04A	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
UP	Recreation E			Arsenic	---
Qualifiers:		acute	chronic	Cadmium	---
Other:		D.O. (mg/L)	---	Chromium III	---
		pH	2.5-9.0	Chromium VI	---
		chlorophyll a (mg/m ²)	---	Copper	---
		E. coli (per 100 mL)	---	Iron	---
		Inorganic (mg/L)		Lead	---
		acute	chronic	Manganese	---
		Ammonia	---	Mercury(T)	---
		Boron	---	Molybdenum(T)	---
		Chloride	---	Nickel	---
		Chlorine	---	Selenium	---
		Cyanide	---	Silver	---
		Nitrate	---	Uranium	varies*
		Nitrite	---	Zinc	---
		Phosphorus	---		
		Sulfate	---		
		Sulfide	---		

*Uranium(acute) = See 36.5(3) for details.
*Uranium(chronic) = See 36.5(3) for details.

4b. Mainstem of Iron Creek, including all tributaries and wetlands, from the source to immediately above the confluence with South Mountain Creek.					
CORGAL04B	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	Arsenic	340
	Recreation E			Arsenic(T)	7.6
Qualifiers:		acute	chronic	Cadmium	TVS
Other:		D.O. (mg/L)	6.0	Chromium III	TVS
		D.O. (spawning)	7.0	Chromium III(T)	100
		pH	6.5 - 9.0	Chromium VI	TVS
		chlorophyll a (mg/m ²)	---	Copper	TVS
		E. coli (per 100 mL)	---	Iron(T)	1000
		Inorganic (mg/L)		Lead	TVS
		acute	chronic	Manganese	TVS
		Ammonia	TVS	Mercury(T)	0.01
		Boron	0.75	Molybdenum(T)	150
		Chloride	---	Nickel	TVS
		Chlorine	0.019	Selenium	TVS
		Cyanide	0.005	Silver	TVS(tr)
		Nitrate	100	Uranium	varies*
		Nitrite	0.05	Zinc	TVS
		Phosphorus	0.44TVS		
		Sulfate	---		
		Sulfide	0.002		

*Uranium(acute) = See 36.5(3) for details.
*Uranium(chronic) = See 36.5(3) for details.

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Alamosa River/La Jara Creek/Conejos River Basins

5. Mainstem of Wightman Fork, including all tributaries and wetlands, from the source to the west line of S30, T37N, R4E (37.43127, -106.60325).						
CORGAL05	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Recreation E	Temperature °C	CS-I	CS-I	Arsenic	340 ---
	Aq Life Cold 1	acute	chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS TVS
Other:		D.O. (spawning)	---	7.0	Chromium III	TVS TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---
		chlorophyll a (mg/m ²)	---	450TVS	Chromium VI	TVS TVS
		E. coli (per 100 mL)	---	126	Copper	TVS TVS
					Iron(T)	---
					1000	
		Inorganic (mg/L)			Lead	TVS TVS
		acute	chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---
		Boron	---	0.75	Molybdenum(T)	---
		Chloride	---	---	Nickel	TVS TVS
		Chlorine	0.019	0.011	Selenium	TVS TVS
		Cyanide	0.005	---	Silver	TVS TVS(tr)
		Nitrate	100	---	Uranium	varies* varies*
		Nitrite	---	0.05	Zinc	TVS TVS
		Phosphorus	---	0.44TVS		
		Sulfate	---	---		
		Sulfide	---	0.002		
6. Mainstem of Wightman Fork from the west line of S30, T37N, R4E (37.43127, -106.60325) to the confluence with the Alamosa River.						
CORGAL06	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Recreation E			Arsenic	---	---
Qualifiers:		acute	chronic	Cadmium	---	---
Other:		D.O. (mg/L)	---	---	Chromium III	---
		pH	---	---	Chromium VI	---
		chlorophyll a (mg/m ²)	---	450TVS	Copper	---
		E. coli (per 100 mL)	---	126	Iron	---
		Inorganic (mg/L)			Lead	---
		acute	chronic	Manganese	---	---
		Ammonia	---	---	Mercury(T)	---
		Boron	---	---	Molybdenum(T)	---
		Chloride	---	---	Nickel	---
		Chlorine	---	---	Selenium	---
		Cyanide	---	---	Silver	---
		Nitrate	---	---	Uranium	varies* varies*
		Nitrite	---	---	Zinc	---
		Phosphorus	---	---		
		Sulfate	---	---		
		Sulfide	---	---		

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Alamosa River/La Jara Creek/Conejos River Basins

7. Jasper Creek, including all tributaries and wetlands, from the source to the confluence with the Alamosa River.							
CORGAL07	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	100	
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium(T)	---	1
Other:		D.O. (spawning)	---	7.0	Chromium III(T)	---	100
*Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		pH	5.5-9.0	---	Chromium VI(T)	---	25
		chlorophyll a (mg/m²)	---	450TVS	Copper(T)	---	90
		E. coli (per 100 mL)	---	126	Iron(T)	---	3400
					Lead(T)	---	4
		Inorganic (mg/L)			Manganese(T)	---	1000
					Mercury(T)	---	0.05
					Molybdenum(T)	---	150
					Nickel(T)	---	5
					Selenium(T)	---	20
					Silver(T)	---	0.1
					Uranium	varies*	varies*
					Zinc(T)	---	170
8. Terrace Reservoir.							
CORGAL08	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Cold 2	Temperature °C	CLL	CLL	Aluminum	varies*	varies*
	Recreation E	acute	chronic	Arsenic	340	---	
Qualifiers:		D.O. (mg/L)	---	6.0	Arsenic(T)	---	7.6
Fish Ingestion Standards Apply		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
Other:		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
*chlorophyll a (ug/L)(chronic) – applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) – applies only to lakes and reservoirs larger than 25 acres surface area. *Aluminum(acute) = See 36.6(4) for site-specific standards and assessment locations. *Aluminum(chronic) = See 36.6(4) for site-specific standards and assessment locations. *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	---	100
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron(T)	---	1000
					Lead	TVS	TVS
					Manganese	TVS	TVS
					Manganese(T)	---	200
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

8. Terrace Reservoir.								
CORGAL08	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT	acute	chronic		
UP	Aq Life Cold 2	Temperature °C	CLL	CLL	Aluminum	varies*	varies*	
	Recreation E		acute	chronic	Arsenic	340	---	
Qualifiers:		D.O. (mg/L)	---	6.0	Arsenic(T)	---	7.6	
Fish Ingestion Standards Apply		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS	
Other:		pH	6.5 - 9.0	---	Chromium III	TVS	TVS	
<div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Aluminum(acute) = See 36.6(4) for site-specific standards and assessment locations.</div> <div>*Aluminum(chronic) = See 36.6(4) for site-specific standards and assessment locations.</div> <div>*Uranium(acute) = See 36.5(3) for details.</div> <div>*Uranium(chronic) = See 36.5(3) for details.</div>		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	---	100	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
		Inorganic (mg/L)				Copper	TVS	TVS
						Iron(T)	---	1000
						Lead	TVS	TVS
						Manganese	TVS	TVS
		Ammonia	TVS	TVS	Manganese(T)	---	200	
		Boron	---	0.75	Mercury(T)	---	0.01	
		Chloride	---	---	Molybdenum(T)	---	150	
		Chlorine	0.019	0.011	Nickel	TVS	TVS	
		Cyanide	0.005	---	Selenium	TVS	TVS	
		Nitrate	100	---	Silver	TVS	TVS(tr)	
		Nitrite	---	0.05	Uranium	varies*	varies*	
		Nitrogen	---	TVS	Zinc	TVS	TVS	
		Phosphorus	---	0.025*TVS				
		Sulfate	---	---				
Sulfide	---	0.002						

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Alamosa River/La Jara Creek/Conejos River Basins

9. Mainstem of Alamosa River from the outlet of Terrace Reservoir to Hwy 15 (Gunbarrel Road).							
CORGAL09	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum(T)	TVS	TVS
	Water Supply		acute	chronic	Arsenic	340	---
	Recreation E	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III	---	TVS
		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
					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	---	Manganese(T)	---	200
		Nitrate	10	---	Mercury(T)	---	0.01
		Nitrite	---	0.05	Molybdenum(T)	---	150
		Phosphorus	---	0.44 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

10. Mainstem of the Alamosa River from Hwy 15 (Gunbarrel Road) to its point of final diversion.							
CORGAL10	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Aluminum(T)	TVS	TVS
	Water Supply		acute	chronic	Arsenic	340	---
	Recreation E	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02-10 ^A
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III	---	TVS
		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
					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	---	Manganese(T)	---	200
		Nitrate	10	---	Mercury(T)	---	0.01
		Nitrite	---	0.05	Molybdenum(T)	---	150
		Phosphorus	---	0.44 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Alamosa River/La Jara Creek/Conejos River Basins

11a. All tributaries and wetlands to La Jara Reservoir. All tributaries and wetlands to La Jara Creek from the outlet of La Jara Reservoir to a point immediately below the confluence with Jarosa Creek, excluding the listings in segment 11b.

CORGAL11A	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS
Other:		D.O. (spawning)	---	7.0	Chromium III	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	100
		chlorophyll a (mg/m ²)	---	150 TVS	Chromium VI	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS
					Iron(T)	---
					1000	
		Inorganic (mg/L)		Lead	TVS	TVS
		acute	chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Manganese(T)	---
		Boron	---	0.75	Mercury(T)	---
		Chloride	---	---	Molybdenum(T)	---
		Chlorine	0.019	0.011	Nickel	TVS
		Cyanide	0.005	---	Selenium	TVS
		Nitrate	100	---	Silver	TVS
		Nitrite	---	0.05	Uranium	varies*
		Phosphorus	---	0.14 TVS	Zinc	TVS
		Sulfate	---	---		
		Sulfide	---	0.002		

11b. Mainstem of La Jara Creek from the outlet of La Jara Reservoir to a point immediately above the confluence with Hot Creek. All tributaries and wetlands to La Jara Creek from a point immediately below the confluence with Jarosa Creek to a point immediately above the confluence with Hot Creek.

CORGAL11B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	TVS
		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
					Copper	TVS
		Inorganic (mg/L)		Iron	---	300
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Manganese(T)	---
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Phosphorus	---	0.14 TVS	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
					Uranium	varies*
					Zinc	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Alamosa River/La Jara Creek/Conejos River Basins

12. Mainstem of La Jara Creek from immediately above the confluence with Hot Creek to the confluence with the Rio Grande.							
CORGAL12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Water Supply	acute	chronic	Arsenic(T)	---	0.02	
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Water + Fish Standards Apply		chlorophyll a (mg/m²)	---	450*TVS	Chromium III	---	TVS
Other: Discharger Specific Variance(s): Nitrate(acute) = See Section 36.6(6) for details on the variance for the Town of La Jara. Expiration Date of 12/31/2025 *chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 36.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 36.5(4). *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		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	---	Manganese(T)	---	200
		Nitrite	---	0.05	Mercury(T)	---	0.01
		Phosphorus	---	0.47TVS*	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
13. Mainstem of Hot Creek from the source to the confluence with La Jara Creek.							
CORGAL13	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 36.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 36.5(4). *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	450*TVS	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	---	0.44TVS*	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

13. Mainstem of Hot Creek from the source to the confluence with La Jara Creek.							
CORGAL13	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m ²)	---	150*TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

Temporary Modification(s):
Arsenic(chronic) = hybrid
Expiration Date of 12/31/2024

*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 36.5(4).
*Phosphorus(chronic) = applies only above the facilities listed at 36.5(4).
*Uranium(acute) = See 36.5(3) for details.
*Uranium(chronic) = See 36.5(3) for details.

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Alamosa River/La Jara Creek/Conejos River Basins

14a. Mainstem of the Conejos River, including all tributaries and wetlands, from the source to immediately below the confluence with Elk Creek, excluding the specific listings in segment 1.						
CORGAL14A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS
Expiration Date of 12/31/2024					Copper	TVS
*Uranium(acute) = See 36.5(3) for details.		Inorganic (mg/L)		Iron	---	WS
*Uranium(chronic) = See 36.5(3) for details.		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	0.11 TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

14b. Mainstem of the Conejos River, including all tributaries and wetlands, from a point immediately below the confluence with Elk Creek to a point immediately above the confluence with Fox Creek.						
CORGAL14B	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS
Expiration Date of 12/31/2024					Copper	TVS
*Uranium(acute) = See 36.5(3) for details.		Inorganic (mg/L)		Iron	---	WS
*Uranium(chronic) = See 36.5(3) for details.		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	0.11 TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Alamosa River/La Jara Creek/Conejos River Basins

15. Mainstem of the Conejos River from a point immediately above the confluence with Fox Creek to the confluence with the Rio San Antonio.						
CORGAL15	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	450*TVS	Chromium III(T)	50
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS
Expiration Date of 12/31/2024					Copper	TVS
		Inorganic (mg/L)			Iron	---
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	0.44*TVS*	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

16. Mainstem of the Conejos River from the confluence with the Rio San Antonio to the confluence with the Rio Grande.						
CORGAL16	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS
Other:		pH	6.5 - 9.0	---	Chromium III	TVS
		chlorophyll a (mg/m ²)	---	TVS	Chromium III(T)	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)			Copper	TVS
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Manganese	TVS
		Chloride	---	---	Mercury(T)	---
		Chlorine	0.019	0.011	Molybdenum(T)	---
		Cyanide	0.005	---	Nickel	TVS
		Nitrate	100	---	Selenium	TVS
		Nitrite	---	0.05	Silver	TVS
		Phosphorus	---	---	Uranium	varies*
		Sulfate	---	---	Zinc	TVS
		Sulfide	---	0.002		

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Alamosa River/La Jara Creek/Conejos River Basins

17a. Mainstem of Rio de Los Pinos, including all tributaries and wetlands within Colorado, excluding the specific listings in segment 1.							
CORGAL17A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 36.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 36.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

17b. Mainstem of the Rio San Antonio from the Colorado/New Mexico border to Hwy 285.							
CORGAL17B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 36.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 36.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Alamosa River/La Jara Creek/Conejos River Basins

18. Mainstem of the Rio San Antonio from Hwy 285 to the confluence with the Conejos River.							
CORGAL18	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Water Supply	acute	chronic	Arsenic(T)	---	0.02	
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Water + Fish Standards Apply		chlorophyll a (mg/m²)	---	450*TVS	Chromium III	---	TVS
Other:		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Temporary Modification(s):		Inorganic (mg/L)			Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid		acute	chronic	Copper	TVS	TVS	
Expiration Date of 12/31/2024		Ammonia	TVS	TVS	Iron	---	WS
*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 36.5(4).		Boron	---	0.75	Iron(T)	---	1000
*Phosphorus(chronic) = applies only above the facilities listed at 36.5(4).		Chloride	---	250	Lead	TVS	TVS
*Uranium(acute) = See 36.5(3) for details.		Chlorine	0.019	0.011	Lead(T)	50	---
*Uranium(chronic) = See 36.5(3) for details.		Cyanide	0.005	---	Manganese	TVS	TVS/WS
		Nitrate	10	---	Mercury(T)	---	0.01
		Nitrite	---	0.05	Molybdenum(T)	---	150
		Phosphorus	---	0.47TVS*	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
19. Mainstem of the Rio Chama, including all tributaries and wetlands within Colorado, excluding the specific listings in segment 1.							
CORGAL19	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 36.5(3) for details.		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
*Uranium(chronic) = See 36.5(3) for details.		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	---	0.44TVS	Nicel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

19. Mainstem of the Rio Chama, including all tributaries and wetlands within Colorado, excluding the specific listings in segment 1.							
CORGAL19	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other: *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Alamosa River/La Jara Creek/Conejos River Basins

20. All tributaries and wetlands to the Alamosa River, La Jara Creek, or the Conejos River within the boundaries of the Rio Grande National Forest, excluding the specific listings in segments 1 through 7, 11a, 11b, 13, 14a, 14b, 17a, 17b, and 18.

CORGAL20	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		chlorophyll a (mg/m ²)	---	150 TVS	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 TVS	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

21. All tributaries to the Conejos River from a point immediately above the confluence with Fox Creek to the Rio Grande, excluding the listings in Segment 20.

CORGAL21	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
UP	Recreation N				Arsenic(T)	---	0.02-10 ^A
	Water Supply	acute	chronic		Beryllium(T)	---	4.0
Qualifiers:		D.O. (mg/L)	---	3.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III(T)	50	---
*Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		chlorophyll a (mg/m ²)	---	---	Chromium VI(T)	50	---
		E. coli (per 100 mL)	---	630	Copper(T)	---	200
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Lead(T)	50	---
		Ammonia	---	---	Manganese	---	WS
		Boron	---	0.75	Manganese(T)	---	200
		Chloride	---	250	Mercury(T)	2.0	---
		Chlorine	---	---	Molybdenum(T)	---	150
		Cyanide	0.2	---	Nickel(T)	---	100
		Nitrate	10	---	Selenium(T)	---	20
		Nitrite	1.0	---	Silver(T)	100	---
		Phosphorus	---	---	Uranium	varies*	varies*
		Sulfate	---	WS	Zinc(T)	---	2000
		Sulfide	---	0.05			

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Alamosa River/La Jara Creek/Conejos River Basins

22. All tributaries, including wetlands, to the Alamosa River or La Jara Creek, excluding the specific listings in segments 1 through 21.						
CORGAL22	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
UP	Aq Life Warm 2 Recreation E	Temperature °C	WS-III WS-III		Arsenic	340 ---
		acute	chronic		Arsenic(T)	---
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS TVS
Other:		pH	6.5 - 9.0	---	Chromium III	TVS TVS
		chlorophyll a (mg/m ²)	---	150TVS	Chromium III(T)	---
*Uranium(acute) = See 36.5(3) for details.		E. coli (per 100 mL)	---	126	Chromium VI	TVS TVS
*Uranium(chronic) = See 36.5(3) for details.		Inorganic (mg/L)			Copper	TVS TVS
		acute	chronic		Iron(T)	---
		Ammonia	TVS	TVS	Lead	TVS TVS
		Boron	---	0.75	Manganese	TVS TVS
		Chloride	---	---	Mercury(T)	---
		Chlorine	0.019	0.011	Molybdenum(T)	---
		Cyanide	0.005	---	Nickel	TVS TVS
		Nitrate	100	---	Selenium	TVS TVS
		Nitrite	---	0.05	Silver	TVS TVS
		Phosphorus	---	0.47TVS	Uranium	varies* varies*
		Sulfate	---	---	Zinc	TVS TVS
		Sulfide	---	0.002		

23. All lakes and reservoirs tributary to the Alamosa River or the Conejos River, and within the South San Juan Wilderness area.						
CORGAL23	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
OW	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CL CL		Arsenic	340 ---
		acute	chronic		Arsenic(T)	---
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS TVS
Other:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---
		pH	6.5 - 9.0	---	Chromium III	---
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50 ---
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		E. coli (per 100 mL)	---	126	Chromium VI	TVS TVS
*Uranium(acute) = See 36.5(3) for details.		Inorganic (mg/L)			Copper	TVS TVS
*Uranium(chronic) = See 36.5(3) for details.		acute	chronic		Iron	---
		Ammonia	TVS	TVS	Iron(T)	---
		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)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS TVS
		Nitrogen	---	TVS	Nickel(T)	---
		Phosphorus	---	0.025*TVS	Selenium	TVS TVS
		Sulfate	---	WS	Silver	TVS TVS(tr)
		Sulfide	---	0.002	Uranium	varies* varies*
					Zinc	TVS TVS

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Alamosa River/La Jara Creek/Conejos River Basins

24. All lakes and reservoirs tributary to the Alamosa River from the source to a point immediately above the confluence with Alum Creek, excluding the specific listings in segment 23.							
CORGAL24	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
Water Supply		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
					Iron	---	WS
					Iron(T)	---	1000
					Lead	TVS	TVS
					Lead(T)	50	---
					Manganese	TVS	TVS/WS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
				Zinc	TVS	TVS	
25. All lakes and reservoirs tributary to La Jara Creek from the source to a point immediately above the confluence with Hot Creek.							
CORGAL25	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	7.6
Water Supply		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Chromium III(T)	---	100
Other:		chlorophyll a (ug/L)	---	8*TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron	---	---
					Iron(T)	---	1000
					Lead	TVS	TVS
					Manganese	TVS	TVS
					Manganese(T)	---	200
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

25. All lakes and reservoirs tributary to La Jara Creek from the source to a point immediately above the confluence with Hot Creek.							
CORGAL25	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (ug/L)	---	8*TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron	---	---
					Iron(T)	---	1000

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Alamosa River/La Jara Creek/Conejos River Basins

26. All lakes and reservoirs tributary to the Conejos River from the source to a point immediately above the confluence with Fox Creek, excluding the specific listings in segments 23 and 30.								
CORGAL26	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
*Chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		chlorophyll a (ug/L)	---	8*TVS	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	
		Nitrogen	---	TVS	Nickel(T)	---	100	
		Phosphorus	---	0.025*TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
						Zinc	TVS	TVS
27. All lakes and reservoirs tributary to the Rio de Los Pinos and within Colorado, excluding the specific listings in segment 23. All lakes and reservoirs tributary to the Rio Chama and within Colorado, excluding the specific listings in segment 23.								
CORGAL27	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
*Chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		chlorophyll a (ug/L)	---	8*TVS	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	
		Nitrogen	---	TVS	Nickel(T)	---	100	
		Phosphorus	---	0.025*TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
						Zinc	TVS	TVS

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Alamosa River/La Jara Creek/Conejos River Basins

28. All lakes and reservoir tributary to the Alamosa River, La Jara Creek, or Conejos River, and within the boundaries of the Rio Grande National Forest, excluding the specific listings in segments 23 through 27, and 30.

CORGAL28	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	CL	CL	Temperature °C	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		chlorophyll a (ug/L)	---	8*TVS	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
		Nitrogen	---	TVS	Nickel(T)	---	100
		Phosphorus	---	0.025*TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

29. All lakes and reservoirs tributary to the Alamosa River, La Jara Creek, or Conejos River, excluding the specific listings in segments 8, 23 through 28, and 30.

CORGAL29	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
UP	Aq Life Warm 2	WL	WL	Temperature °C	Arsenic	340	---
	Recreation E	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
*Chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		chlorophyll a (ug/L)	---	20*TVS	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(tr)
		Nitrogen	---	TVS	Uranium	varies*	varies*
		Phosphorus	---	0.083*TVS	Zinc	TVS	TVS
		Sulfate	---	---			
		Sulfide	---	0.002			

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Alamosa River/La Jara Creek/Conejos River Basins

30. Platoro Reservoir.						
CORGAL30	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	CLL	CLL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	Chromium III	---	TVS
		chlorophyll a (ug/L)	8*TVS	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	Iron(T)	---	1000
		Boron	0.75	Lead	TVS	TVS
		Chloride	250	Lead(T)	50	---
		Chlorine	0.019	Manganese	TVS	TVS/WS
		Cyanide	0.005	Mercury(T)	---	0.01
		Nitrate	10	Molybdenum(T)	---	150
		Nitrite	0.05	Nickel	TVS	TVS
		Nitrogen	TVS	Nickel(T)	---	100
		Phosphorus	0.025*TVS	Selenium	TVS	TVS
		Sulfate	WS	Silver	TVS	TVS(tr)
		Sulfide	0.002	Uranium	varies*	varies*
				Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Closed Basin-San Luis Valley River Basin

1. All tributaries to the Closed Basin, including all wetlands, within the La Garita Wilderness Area.								
CORGCB01	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	150TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
		acute	chronic	Iron(T)	---	1000		
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.14TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	
		2a. Mainstem of La Garita Creek, including all tributaries and wetlands, from the source to a point immediately below the confluence with Geronimo Creek. The North, Middle, and South Forks of Carnero Creek, including all tributaries and wetlands, from their sources to their confluences at the inception of the mainstem of Carnero Creek.						
		CORGCB02A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	150TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
		acute	chronic	Iron(T)	---	1000		
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.14TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Closed Basin-San Luis Valley River Basin

2b. Mainstem of La Garita Creek, including all tributaries and wetlands, from a point immediately below the confluence with Geronimo Creek to 38 Road. All tributaries to the mainstem of Carnero Creek from its inception at the confluence of the North, Middle, and South Forks to 42 Road, excluding the specific listings in segment 2a.						
CORGCB02B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (mg/m ²)	---	150TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Phosphorus	---	0.44TVS	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
					Uranium	varies*
					Zinc	TVS
2c. Mainstem of Carnero Creek from its inception at the confluence of the North, Middle, and South Forks to 42 Road.						
CORGCB02C	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (mg/m ²)	---	150TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Phosphorus	---	0.44TVS	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
					Uranium	varies*
					Zinc	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Closed Basin-San Luis Valley River Basin

3. All tributaries to the Closed Basin excluding the listings in segments 1, 2a, 2b, 2c, and 4 through 13.

CORGCB03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic		Copper	TVS	TVS
*Uranium(acute) = See 36.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 36.5(3) for details.		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)	---	150
		Phosphorus	---	0.47 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

4. Mainstem of San Luis Creek, including all tributaries and wetlands, from the source to a point immediately below the confluence with Piney Creek, excluding the specific listings in segments 8, 9a, and 9b. Garner Creek, including all tributaries and wetlands, from the Rio Grande Forest Boundary to the mouth.

CORGCB04	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Copper	TVS	TVS
*Uranium(acute) = See 36.5(3) for details.		acute	chronic		Iron	---	WS
*Uranium(chronic) = See 36.5(3) for details.		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	---	0.44 TVS	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Closed Basin-San Luis Valley River Basin

5. Mainstem of San Luis Creek from a point immediately below the confluence with Piney Creek to the inlet to San Luis Lake.							
CORGC05	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	100	
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
*Uranium(acute) = See 36.5(3) for details.		pH	6.5 - 9.0	---	Chromium III(T)	---	100
*Uranium(chronic) = See 36.5(3) for details.		chlorophyll a (mg/m²)	---	150TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
		Inorganic (mg/L)			Iron(T)	---	1000
		acute	chronic	Lead	TVS	TVS	
		Ammonia	TVS	TVS	Manganese	TVS	TVS
		Boron	---	0.75	Mercury(T)	---	0.01
		Chloride	---	---	Molybdenum(T)	---	150
		Chlorine	0.019	0.011	Nickel	TVS	TVS
		Cyanide	0.005	---	Selenium	TVS	TVS
		Nitrate	100	---	Silver	TVS	TVS(tr)
		Nitrite	---	0.05	Uranium	varies*	varies*
		Phosphorus	---	0.44TVS	Zinc	TVS	TVS
		Sulfate	---	---			
		Sulfide	---	0.002			

6. Mainstem of South Crestone Creek from a point just below the Spanish Creek Trail road crossing (37.981612, -105.713237) to its confluence with Crestone Creek. Mainstem of Crestone Creek from its source at the confluence of North Crestone Creek and South Crestone Creek to the mouth.							
CORGC06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	7.6	
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other:		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 36.5(4).		chlorophyll a (mg/m²)	---	150*TVS	Chromium III(T)	---	100
*Phosphorus(chronic) = applies only above the facilities listed at 36.5(4).		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(acute) = See 36.5(3) for details.		Inorganic (mg/L)			Copper	TVS	TVS
*Uranium(chronic) = See 36.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Manganese	TVS	TVS
		Chloride	---	250	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	---	0.47TVS*	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Closed Basin-San Luis Valley River Basin

7. Deleted.

CORGCB07	Classifications	Physical and Biological		Metals (ug/L)	
Designation		DM	MWAT	acute	chronic
Qualifiers:		acute	chronic		
Other:					
		Inorganic (mg/L)			
		acute	chronic		

8. Mainstem of Kerber Creek, including all tributaries and wetlands, from the source to a point immediately above the Cocomongo Mill site. Mainstem of Squirrel Creek from the source to immediately above Bear Creek, Brewery Creek from the source to Kerber Creek, and Elkhorn Gulch from the source to Kerber Creek.

CORGCB08	Classifications	Physical and Biological		Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m²)	---	150 TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
			acute	chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	TVS	TVS
		Phosphorus	---	0.11 TVS			
		Sulfate	---	---			
		Sulfide	---	0.002			

*Uranium(acute) = See 36.5(3) for details.
 *Uranium(chronic) = See 36.5(3) for details.

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Closed Basin-San Luis Valley River Basin

9a. Mainstem of Kerber Creek, including all tributaries and wetlands, from a point immediately above the Cocomongo Mill site to immediately above the confluence of Brewery Creek, excluding the specific listings in segment 8.					
CORGCB09A	Classifications	Physical and Biological		Metals (ug/L)	
Designation		DM	MWAT	acute	chronic
UP	Agriculture			Arsenic	340
	Recreation E				---
	Water Supply			Arsenic(T)	0.02-10 ^A
Qualifiers:		acute	chronic		
Goal Qualifier for Agriculture and Water Supply	D.O. (mg/L)	---	3.0	Cadmium(T)	5.0
	pH	6.5 - 9.0	---	Chromium III(T)	50
Other:	chlorophyll a (mg/m ²)	---	150TVS	Chromium VI(T)	50
	E. coli (per 100 mL)	---	126	Copper(T)	1000
*Uranium(acute) = See 36.5(3) for details.	Inorganic (mg/L)			Iron	WS
		acute	chronic	Lead(T)	50
*Uranium(chronic) = See 36.5(3) for details.	Ammonia	---	---	Manganese	WS
	Boron	---	0.75	Mercury(T)	2.0
	Chloride	---	250	Molybdenum(T)	150
	Chlorine	---	---	Nickel(T)	100
	Cyanide	---	---	Selenium(T)	20
	Nitrate	10	---	Silver(T)	50
	Nitrite	1.0	---	Uranium	varies*
	Phosphorus	---	---	Zinc(T)	5000
	Sulfate	---	WS		
	Sulfide	---	0.002		

9b. Mainstem of Kerber Creek from a point immediately above the confluence with Brewery Creek to the confluence with San Luis Creek.					
CORGCB09B	Classifications	Physical and Biological		Metals (ug/L)	
Designation		DM	MWAT	acute	chronic
UP	Agriculture			Arsenic	340
	Aq Life Cold 1	CS-I	CS-I		---
	Recreation E			Arsenic(T)	0.02
	Water Supply			Cadmium	SSE*
Qualifiers:		acute	chronic		
Goal Qualifier for Agriculture and Water Supply	D.O. (mg/L)	---	6.0	Cadmium	SSE*
	D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:	pH	6.5 - 9.0	---	Chromium III	TVS
	chlorophyll a (mg/m ²)	---	150TVS	Chromium III(T)	50
Temporary Modification(s):	E. coli (per 100 mL)	---	126	Chromium VI	TVS
				Copper	TVS
Arsenic(chronic) = hybrid	Inorganic (mg/L)			Copper	SSE*
		acute	chronic	Copper	TVS
Expiration Date of 12/31/2024	Ammonia	TVS	TVS	Iron	300
	Boron	---	0.75	Iron(T)	1000
*Cadmium(acute) = e^(0.7852ln[hard]-1.545)	Chloride	---	250	Lead	TVS
*Cadmium(chronic) = e^(0.7852ln[hard]-2.906)	Chlorine	0.019	0.011	Lead(T)	50
*Copper(acute) = e^(0.8889ln[hard]+0.53)	Cyanide	0.005	---	Manganese	TVS
*Copper(chronic) = e^(0.8889ln[hard]-1.519)	Nitrate	10	---	Mercury(T)	0.01
*Uranium(acute) = See 36.5(3) for details.	Nitrite	---	0.05	Molybdenum(T)	150
*Uranium(chronic) = See 36.5(3) for details.	Phosphorus	---	0.44TVS	Nickel	TVS
*Zinc(acute) = e^(0.8179ln[hard]+3.757)	Sulfate	---	WS	Nickel(T)	100
*Zinc(chronic) = e^(0.8179ln[hard]+2.907)	Sulfide	---	0.002	Selenium	TVS
				Silver	TVS
				Uranium	varies*
				Zinc	TVS
				Zinc	SSE*
				Zinc	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Closed Basin-San Luis Valley River Basin

10. Mainstem of Sand Creek, including all tributaries and wetlands, from the source to the mouth. Mainstem of Medano Creek, including all tributaries and wetlands, from the source to the mouth.

CORGCB10	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
OW	Aq Life Cold 1	CS-I		CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)		6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		pH		6.5 - 9.0	---	TVS	TVS
		chlorophyll a (mg/m ²)		---	450	TVS	---
		E. coli (per 100 mL)		---	126	---	---
		Inorganic (mg/L)			Copper	TVS	TVS
		acute		chronic	Iron	---	WS
		Ammonia		TVS	TVS	TVS	1000
		Boron		---	0.75	---	---
		Chloride		---	250	---	---
		Chlorine		0.019	0.011	---	0.01
		Cyanide		0.005	---	---	210
		Nitrate		10	---	---	---
		Nitrite		---	0.05	---	100
		Phosphorus		---	0.44	TVS	TVS
		Sulfate		---	WS	---	---
		Sulfide		---	0.002	---	---
					Iron(T)	---	1000
					Lead	TVS	TVS
					Lead(T)	50	---

11. All tributaries to the Closed Basin within the Rio Grande National Forest boundaries excluding the listings in segments 1, 2a, 2b, 2c, 4, 9a, 9b, 10, 12a, 12b, and 12c.

CORGCB11	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	CS-I		CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)		6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		pH		6.5 - 9.0	---	TVS	TVS
		chlorophyll a (mg/m ²)		---	450	TVS	---
		E. coli (per 100 mL)		---	126	---	---
		Inorganic (mg/L)			Copper	TVS	TVS
		acute		chronic	Iron	---	WS
		Ammonia		TVS	TVS	TVS	1000
		Boron		---	0.75	---	---
		Chloride		---	250	---	---
		Chlorine		0.019	0.011	---	0.01
		Cyanide		0.005	---	---	150
		Nitrate		10	---	---	---
		Nitrite		---	0.05	---	100
		Phosphorus		---	0.44	TVS	TVS
		Sulfate		---	WS	---	---
		Sulfide		---	0.002	---	---
					Iron(T)	---	1000
					Lead	TVS	TVS
					Lead(T)	50	---

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Closed Basin-San Luis Valley River Basin

12a. Mainstem of Saguache Creek, including all tributaries and wetlands, from the boundary of the La Garita Wilderness Area to a point just below the confluence with Ford Creek, excluding the specific listings in segments 1 and 12b.

CORGCB12A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 36.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 36.5(3) for details.		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

12b. Mainstem of Saguache Creek from a point just below the confluence of Fourmile Creek to a point just below the confluence with Ford Creek.

CORGC12B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II*	varies* °C	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details. *Temperature = MWAT=CS-II from 11/1-3/31 MWAT=18.6 from 4/1-10/31 See temperature assessment locations at 36.6(4).		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
Sulfide	---	0.002	Uranium	varies*	varies*		
			Zinc	TVS	TVS		

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Closed Basin-San Luis Valley River Basin

12c. Mainstem of Saguache Creek, including all tributaries and wetlands, from a point just below the confluence with Ford Creek to Hwy 285.							
CORGCB12C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
13. Mainstem of Saguache Creek from Hwy 285 to the confluence with San Luis Creek. Mainstem of Russell Creek from its source at Russell Springs to the confluence with La Garita Creek. Mainstem of Cottonwood Creek downstream of the Rio Grande National Forest Boundary.							
CORGCB13	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Water + Fish Standards Apply		chlorophyll a (mg/m²)	---	150 TVS	Chromium III	---	TVS
Other:		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.17 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

13. Mainstem of Saguache Creek from Hwy 285 to the confluence with San Luis Creek. Mainstem of Russell Creek from its source at Russell Springs to the confluence with La Garita Creek. Mainstem of Cottonwood Creek downstream of the Rio Grande National Forest Boundary.							
CORGCB13	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Water + Fish Standards Apply		chlorophyll a (mg/m²)	---	150 TVS	Chromium III	---	TVS
Other: *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.17 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Closed Basin-San Luis Valley River Basin

14. All wetlands tributary to the Closed Basin, excluding the specific listings in segments 1 through 13.							
CORGCB14	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	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
		chlorophyll a (mg/m ²)	---	TVS	Chromium III(T)	---	100
*Uranium(acute) = See 36.5(3) for details.		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(chronic) = See 36.5(3) for details.		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	---	---	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

15. All lakes and reservoirs tributary to the Closed Basin, and within the La Garita Wilderness Area.							
CORGCB15	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
OW	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		Inorganic (mg/L)			Copper	TVS	TVS
*Uranium(acute) = See 36.5(3) for details.		acute	chronic		Iron	---	WS
*Uranium(chronic) = See 36.5(3) for details.		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
		Nitrogen	---	TVS	Nickel(T)	---	100
		Phosphorus	---	0.025*TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Closed Basin-San Luis Valley River Basin

16. All lakes and reservoirs tributary to La Garita Creek from the source to 38 Road. All lakes and reservoirs tributary to Camero Creek from the source to 42 Road. All lakes and reservoirs tributary to Kerber Creek from the source to a point immediately above the Cocomongo Mill site. All lakes and reservoirs tributary to San Luis Creek, from the source to a point immediately below the confluence with Piney Creek. All lakes and reservoirs tributary to Saguache Creek from the boundary of the La Garita Wilderness Area to Hwy 285.

CORGC16	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS

17. All lakes and reservoirs within the Closed Basin and within the Rio Grande National Forest boundaries, excluding the specific listings in segments 15 and 16.

CORGCB17	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (ug/L)	---	8±TVS	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
		Nitrogen	---	TVS	Nickel(T)	---	100
		Phosphorus	---	0.025±TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
			Zinc	TVS	TVS		

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Closed Basin-San Luis Valley River Basin

18. All lakes and reservoirs within the Closed Basin, excluding the specific listings in segments 16, 17, 19 and 20.					
CORGC18	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Warm 2	Temperature °C	WL WL	Arsenic	340 ---
	Recreation E	acute	chronic	Arsenic(T)	--- 0.02
	Water Supply	D.O. (mg/L)	--- 5.0	Cadmium	TVS TVS
Qualifiers:		pH	6.5 - 9.0 ---	Cadmium(T)	5.0 ---
Water + Fish Standards Apply		chlorophyll a (ug/L)	--- 29*TVS	Chromium III	--- TVS
Other:		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)	--- 150
		Nitrogen	--- - TVS	Nickel	TVS TVS
		Phosphorus	--- 0.083*TVS	Nickel(T)	--- 100
		Sulfate	--- WS	Selenium	TVS TVS
		Sulfide	--- 0.002	Silver	TVS TVS
				Uranium	varies* varies*
				Zinc	TVS TVS

*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.
 *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.
 *Uranium(acute) = See 36.5(3) for details.
 *Uranium(chronic) = See 36.5(3) for details.

19. San Luis Lake.					
CORGC19	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CLL* varies*	Arsenic	340 ---
	Recreation E	acute	chronic	Arsenic(T)	--- 7.6
Qualifiers:		D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS
Other:		D.O. (spawning)	--- 7.0	Chromium III	TVS TVS
		pH	6.5 - 9.0 ---	Chromium III(T)	--- 100
		chlorophyll a (ug/L)	--- 8*TVS	Chromium VI	TVS TVS
		E. coli (per 100 mL)	--- 126	Copper	TVS TVS
		Inorganic (mg/L)		Iron(T)	--- 1000
		acute	chronic	Lead	TVS TVS
		Ammonia	TVS TVS	Manganese	TVS TVS
		Boron	--- 0.75	Mercury(T)	--- 0.01
		Chloride	--- ---	Molybdenum(T)	--- 150
		Chlorine	0.019 0.011	Nickel	TVS TVS
		Cyanide	0.005 ---	Selenium	TVS TVS
		Nitrate	100 ---	Silver	TVS TVS
		Nitrite	--- 0.05	Uranium	varies* varies*
		Nitrogen	--- - TVS	Zinc	TVS TVS
		Phosphorus	--- 0.025*TVS		
		Sulfate	--- ---		
		Sulfide	--- 0.002		

*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.
 *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.
 *Uranium(acute) = See 36.5(3) for details.
 *Uranium(chronic) = See 36.5(3) for details.
 *Temperature =
 MWAT=CLL from 1/31-3/31
 MWAT=21.2 from 4/1-12/31

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 36.6 for further details on applied standards.

REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Closed Basin-San Luis Valley River Basin

20. Head Lake.						
CORGC20	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 2	CLL	CLL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	100
Qualifiers:	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:	D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
	pH	6.5 - 9.0	---	Chromium III(T)	---	100
	chlorophyll a (ug/L)	---	8*TVS	Chromium VI	TVS	TVS
	E. coli (per 100 mL)	---	126	Copper	TVS	TVS
				Iron(T)	---	1000
		Inorganic (mg/L)		Lead	TVS	TVS
		acute	chronic	Manganese	TVS	TVS
	Ammonia	TVS	TVS	Mercury(T)	---	0.01
	Boron	---	0.75	Molybdenum(T)	---	150
	Chloride	---	---	Nickel	TVS	TVS
	Chlorine	0.019	0.011	Selenium	TVS	TVS
	Cyanide	0.005	---	Silver	TVS	TVS
	Nitrate	100	---	Uranium	varies*	varies*
	Nitrite	---	0.05	Zinc	TVS	TVS
	Nitrogen	---	TVS			
	Phosphorus	---	0.025*TVS			
	Sulfate	---	---			
	Sulfide	---	0.002			

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 36.6 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) Reserved.
- (C) For certain site-specific temperature standards, the temperature excursions listed in Table I - Footnote 5(c) of 31.16 do not apply. Assessment of ambient-based temperature standards should be conducted in a way that represents similar conditions to those under which the criteria were developed (i.e., air, low flow, and warming event excursions should not apply). Similarly, where site-specific adjustments to the winter shoulder season have been adopted, the winter shoulder season excursion does not apply.

DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Water Quality Control Commission

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

5 CCR 1002-37

37.1 AUTHORITY

These regulations are promulgated pursuant to section 25-8-101 et seq. C.R.S., as amended, and in particular, 25-8-203 and 25-8-204.

37.2 PURPOSE

These regulations establish classifications and numeric standards for the Colorado River Basin, including all tributaries and standing bodies of water. This includes all or parts of Garfield, Mesa, Rio Blanco, Moffat and Routt Counties. The classifications identify the actual beneficial uses of the water. The numeric standards are assigned to determine the allowable concentrations of various parameters. Discharge permits will be issued by the Water Quality Control Division to comply with basic, narrative, and numeric standards and control regulations so that all discharges to waters of the state protect the classified uses. It is intended that these and all other stream classifications and numeric standards be used in conjunction with and be an integral part of Regulation No. 31 Basic Standards and Methodologies for Surface Water.

37.3 INTRODUCTION

These regulations and tables present the classifications and numeric standards assigned to stream segments listed in the attached tables (see Appendix 37-1). As additional stream segments are classified and numeric standards for designated parameters are assigned for this drainage system, they will be added to or replace the numeric standards in the tables in Appendix 37-1. Any additions or revisions of classifications or numeric standards can be accomplished only after public hearing by the Commission and proper consideration of evidence and testimony as specified by the statute and the "basic regulations".

37.4 DEFINITIONS

See the Colorado Water Quality Control Act and the codified water quality regulations for definitions.

37.5 BASIC STANDARDS

(1) Temperature

All waters of the Colorado River Basin are subject to the following standard for temperature. (Discharges regulated by permits, which are within the permit limitations, shall not be subject to enforcement proceedings under this standard). Temperature shall maintain a normal pattern of diurnal and seasonal fluctuations with no abrupt changes and shall have no increase in temperature of a magnitude, rate, and duration deemed deleterious to the resident aquatic life. This standard shall not be interpreted or applied in a manner inconsistent with section 25-8-104, C.R.S.

(2) Qualifiers

See Basic Standards and Methodologies for Surface Water for a listing of organic standards at 31.11 Table B and metal standards found at 31.16 Table III. The column in the tables headed "Water + Fish" are presumptively applied to all aquatic life class 1 streams which also have a water supply classification, and are applied to aquatic life class 2 streams which also have a water supply classification, on a case-by-case basis as shown in Appendix 37-1. The column in the tables at 31.11 headed "Fish Ingestion" is presumptively applied to all aquatic life class 1 streams which do not have a water supply classification, and are applied to aquatic life class 2 streams which do not have a water supply classification, on a case-by-case basis as shown in Appendix 37-1.

(3) Uranium

- (a) All waters of the Lower Colorado River Basin, are subject to the following basic standard for uranium, unless otherwise specified by a water quality standard applicable to a particular segment. However, discharges of uranium regulated by permits which are within these permit limitations shall not be a basis for enforcement proceedings under this basic standard.
- (b) Uranium level in surface waters shall be maintained at the lowest practicable level.
- (c) In no case shall uranium levels in waters assigned a water supply classification be increased by any cause attributable to municipal, industrial, or agricultural discharges so as to exceed 16.8-30 µg/L or naturally-occurring concentrations (as determined by the State of Colorado), whichever is greater.
 - (i) The first number in the 16.8-30 µg/L 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.

(4) Nutrients

See Basic Standards and Methodologies for Surface Water at 31.17 for a listing of chlorophyll a, total nitrogen, and total phosphorus standards for lakes and reservoirs (Table V) and rivers and streams (Table VI). As described in 31.17(2), total nitrogen and total phosphorus standards will be considered for adoption in phases.

Prior to December 31, ~~2022~~ for chlorophyll a and prior to December 31, 2027 for, total nitrogen and total phosphorus, ~~interim nutrient~~ values will be considered for adoption only in the limited circumstances defined at 31.17(~~e2~~)(a)(i) and (~~f~~). ~~These ii~~). For lakes and reservoirs, these circumstances include headwaters, waterbodies upstream of certain domestic and non-domestic wastewater treatment facilities (31.17(2)(a)(i)(A)), waterbodies with a Direct Use Water Supply (DUWS) Lakes and Reservoirs, sub-classification (31.17(2)(a)(i)(B)), waterbodies with public swim beaches (31.17(2)(a)(i)(C)), and other special circumstances determined by the Commission. Additionally, prior to December 31, 2027, only total phosphorus and chlorophyll a will be

~~considered for adoption. After December 31, 2027, total nitrogen will be considered for adoption per the (31.17(2)(a)(i)(D)). For rivers and streams, these circumstances outlined in 31.17(g).~~

~~Prior to December 31, 2027, nutrient criteria will be adopted for headwaters on a segment by segment basis for the Lower Colorado Basin. Moreover, pursuant to 31.17(e) nutrient standards will only be adopted for waters upstream of all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012, and any non-domestic include waterbodies upstream of certain domestic and non-domestic wastewater treatment facilities subject to Regulation 85 effluent limits and discharging prior to May 31, 2012. The (31.17(2)(a)(ii)(A)) and other special circumstances determined by the Commission (31.17(2)(a)(ii)(B)).~~

~~Pursuant to 31.17(2)(a)(i)(A) and 31.17(2)(a)(ii)(A), the following is a list of all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012, cooling tower discharges, and any non-domestic facilities subject to Regulation 85 effluent limits and discharging prior to May 31, 2012 in the Lower Colorado Basin:~~

Segment	Permittee	Facility name	Permit No.
COLCLY02	Craig City of	Craig WWTF	CO0040037
COLCWH07	Whiteriver RV LLC	Whiteriver RV Sanitation WWTF	COG588048
COLCWH07	Meeker Sanitation District	Meeker Sanitation District	CO0047139
COLCWH13b	Shell Frontier Oil & Gas Inc	Corral Gulch WWTF	CO0048859
COLCWH21	Rangely Town of	Rangely WWTF	CO0000010
COLCLC01	Rifle City of	Rifle Regional WW Reclamation Facility	CO0048151
COLCLC01	Wastewater Treatment Service LLC	Waste Water Treatment Services WWTF	COG589110
COLCLC01	Silt Town of	Silt Town of	COG588046
COLCLC01	West Glenwood Springs SD	West Glenwood Springs SD	COG588008
COLCLC01	Glenwood Springs City of	Glenwood Springs Regional WWTF	CO0048852
COLCLC01	Talbott Enterprises Inc	Talbott Enterprises Inc	COG588061
COLCLC01	New Castle Town of	New Castle WWTF	COG588062
COLCLC01	Riverbend Water and Sewer Company	Riverbend Subdivision	COG588006
COLCLC02a	Colorado Retail Ventures Services LLC	Cameo Eagle Travel Center	CO0048847
COLCLC02a	DeBeque Town of	DeBeque Town of	CO0048135
COLCLC02a	Battlement Mesa Metro Dist	Battlement Mesa Metro Dist WWTF	COG589086
COLCLC02b	Clifton Sanitation District	Clifton Sanitation District	CO0033791
COLCLC02b	Palisade Town of	Palisade WWTF	CO0000012
COLCLC03	Fruita City of	Fruita Wastewater Reclamation Facility	CO0048854
COLCLC04e	Tri-State Generation & Transmission Assoc Inc	Rifle Station	CO0042447
COLCLC07a	Weiss & Associates	Canyon Creek Estates WWTF	COG589139
COLCLC13b	Mesa Co/Grand Junction City of	Persigo WWTF	CO0040053
COLCLC15a	Grand Mesa Metro Dist 2	Grand Mesa Metro Dist 2	CO0023485
COLCLC15a	Mesa WSD	Mesa WSD	CO0048143
COLCLC16	Collbran Town of	Valleywide Sewerage System	CO0040487

Prior to December 31, 2027:

- For segments located entirely above these facilities, ~~nutrient~~total nitrogen and total phosphorus standards apply to the entire segment.
- For segments with portions downstream of these facilities, ~~nutrient~~total nitrogen and total phosphorus standards only apply above these facilities, except where a waterbody has a DUWS sub-classification or public swim beach. A note was added to the total phosphorus and ~~chlorophyll a~~total nitrogen standards in these segments. The note references the table of qualified facilities at 37.5(4).

- For segments located entirely below these facilities, ~~nutrient~~total nitrogen and total phosphorus standards do not apply, except where a waterbody has a DUWS sub-classification or public swim beach.
- Additionally, for segments with portions downstream of these facilities or for segments located entirely below these facilities, total nitrogen and total phosphorus standards may apply where special circumstances have been identified by the Commission (31.17(2)(a)(i)(D) and 31.17(2)(a)(ii)(B)).

~~A note was added to the total phosphorus and chlorophyll a standards in lakes segments as nutrients standards apply only to lakes and reservoirs larger than 25 acres surface area.~~

37.6 TABLES

(1) Introduction

The numeric standards for various parameters in this regulation and in the tables in Appendix 37-1 were assigned by the Commission after a careful analysis of the data presented on actual stream conditions and on actual and potential water uses. For each parameter listed in the tables in Appendix 37-1, only the most stringent standard is shown. Additional, less stringent standards may apply to protect additional uses and can be found in the tables in Regulation No. 31.

Numeric standards are not assigned for all parameters listed in the tables in Regulation No. 31. If additional numeric standards are found to be needed during future periodic reviews, they can be assigned by following the proper hearing procedures.

(2) Abbreviations

(a) The following abbreviations are used in this regulation and in the tables in Appendix 37-1:

ac	=	acute (1-day)
°C	=	degrees Celsius
ch	=	chronic (30-day)
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
<i>E. coli</i>	=	<i>Escherichia coli</i>
mg/L	=	milligrams per liter
MWAT	=	maximum weekly average temperature
OW	=	outstanding waters
sc	=	sculpin
sp	=	spawning
SSE	=	site-specific equation
T	=	total recoverable
t	=	total
tr	=	trout
TVS	=	table value standard
µg/L	=	micrograms per liter
UP	=	use-protected
WL	=	warm lake temperature tier
WS	=	water supply
WS-I	=	warm stream temperature tier one

WS-II = warm stream temperature tier two
WS-III = warm stream temperature tier three

(b) In addition, the following abbreviations were used:

Iron (chronic) = WS
Manganese (chronic) = WS
Sulfate (chronic) = WS

These abbreviations mean: For all surface waters with an actual water supply use, the less restrictive of the following two options shall apply as numerical chronic standards, as specified in the Basic Standards and Methodologies at 31.16 Table II and III:

- (i) existing quality as of January 1, 2000; or
- (ii) Iron = 300 µg/L (dissolved)
Manganese = 50 µg/L (dissolved)
Sulfate = 250 mg/L (dissolved)

For all surface waters with a “water supply” classification that are not in actual use as a water supply, no water supply standards are applied for iron, manganese or sulfate, unless the Commission determines as the result of a site-specific rulemaking hearing that such standards are appropriate.

(c) Temporary Modification for Water + Fish Chronic Arsenic Standard

- (i) The temporary modification for chronic arsenic standards applied to segments with an arsenic standard of 0.02 µg/L that has been set to protect the Water + Fish qualifier is listed in the Other column in Appendix 37-1 tables as As(ch)=hybrid.
- (ii) For discharges existing on or before 6/1/2013, the temporary modification is: As(ch)=current condition, expiring on 12/31/2024. Where a permit for an existing discharge is reissued or modified while the temporary modification is in effect, the division will include additional permit Terms and Conditions, which may include requirements for additional monitoring, source identification, and characterization of source control and treatment options for reducing arsenic concentrations in effluent.
- (iii) For new or increased discharges commencing on or after 6/1/2013, the temporary modification is: As(ch)=0.02-3.0 µg/L (total recoverable), expiring on 12/31/2024.
 - (a) The first number in the range is the health-based water quality standard previously adopted by the Commission for the segment.
 - (b) The second number in the range is a technology-based value established by the Commission for the purpose of this temporary modification.
 - (c) 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.

(3) Table Value Standards

In certain instances in the tables in Appendix 37-1, the designation “TVS” is used to indicate that for a particular parameter a “table value standard” has been adopted. This designation refers to numerical criteria set forth in the Basic Standards and Methodologies for Surface Water. The criteria for which the TVS are applicable are on the following table.

TABLE VALUE STANDARDS
(Concentrations in µg/L unless noted)

PARAMETER ⁽¹⁾	TABLE VALUE STANDARDS ⁽²⁾⁽³⁾
Aluminum(T)	Acute = $e^{(1.3695 \ln(\text{hardness}) + 1.8308)}$ pH equal to or greater than 7.0 Chronic = $e^{(1.3695 \ln(\text{hardness}) - 0.1158)}$ pH less than 7.0 Chronic = $e^{(1.3695 \ln(\text{hardness}) - 0.1158)}$ or 87, whichever is more stringent
Ammonia ⁽⁴⁾	Cold Water = (mg/L as N)Total $acute = \frac{0.275}{1 + 10^{7.204 - pH}} + \frac{39.0}{1 + 10^{pH - 7.204}}$ $chronic = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * MIN(2.85, 1.45 * 10^{0.028(25 - T)})$
	Warm Water = (mg/L as N)Total $acute = \frac{0.411}{1 + 10^{7.204 - pH}} + \frac{58.4}{1 + 10^{pH - 7.204}}$
	$chronic \text{ (Apr 1 - Aug 31)} = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * MIN(2.85, 1.45 * 10^{0.028(25 - T)})$ $chronic \text{ (Sep 1 - Mar 31)} = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * 1.45 * 10^{0.028(25 - MAX(T, 7))}$
Cadmium	Acute(warm) ⁽⁵⁾ = $(1.136672 - (\ln(\text{hardness}) * 0.041838)) * e^{(0.9789 \ln(\text{hardness}) - 3.443)}$ Acute(cold) ⁽⁵⁾ = $(1.136672 - (\ln(\text{hardness}) * 0.041838)) * e^{(0.9789 \ln(\text{hardness}) - 3.866)}$ Chronic = $(1.101672 - (\ln(\text{hardness}) * 0.041838)) * e^{(0.7977 \ln(\text{hardness}) - 3.909)}$
<u>Chlorophyll a⁽⁶⁾</u>	<u>See 31.17 TVS for Aquatic Life and/or Recreation and Direct Use Water Supply (DUWS).</u>
Chromium III ⁽⁷⁶⁾	Acute = $e^{(0.819 \ln(\text{hardness}) + 2.5736)}$ Chronic = $e^{(0.819 \ln(\text{hardness}) + 0.5340)}$
Chromium VI ⁽⁷⁶⁾	Acute = 16 Chronic = 11
Copper	Acute = $e^{(0.9422 \ln(\text{hardness}) - 1.7408)}$ Chronic = $e^{(0.8545 \ln(\text{hardness}) - 1.7428)}$
Lead	Acute = $(1.46203 - (\ln(\text{hardness}) * 0.145712)) * e^{(1.273 \ln(\text{hardness}) - 1.46)}$ Chronic = $(1.46203 - (\ln(\text{hardness}) * 0.145712)) * e^{(1.273 \ln(\text{hardness}) - 4.705)}$
Manganese	Acute = $e^{(0.3331 \ln(\text{hardness}) + 6.4676)}$ Chronic = $e^{(0.3331 \ln(\text{hardness}) + 5.8743)}$
Nickel	Acute = $e^{(0.846 \ln(\text{hardness}) + 2.253)}$ Chronic = $e^{(0.846 \ln(\text{hardness}) + 0.0554)}$
<u>Nitrogen⁽⁶⁾</u>	<u>See 31.17 TVS for Aquatic Life and/or Recreation.</u>
<u>Phosphorus⁽⁶⁾</u>	<u>See 31.17 TVS for Aquatic Life and/or Recreation.</u>
Selenium ⁽⁸⁷⁾	Acute = 18.4 Chronic = 4.6
Silver	Acute = $0.5 * e^{(1.72 \ln(\text{hardness}) - 6.52)}$ Chronic = $e^{(1.72 \ln(\text{hardness}) - 9.06)}$ Chronic(Trout) = $e^{(1.72 \ln(\text{hardness}) - 10.51)}$
Temperature	TEMPERATURE TIER TIER CODE SPECIES EXPECTED TO BE PRESENT APPLICABLE MONTHS TEMPERATURE STANDARD (°C)

					(MWAT)	(DM)
	Cold Stream Tier I ⁽⁹⁸⁾	CS-I	brook trout, cutthroat trout	June – Sept.	17.0	21.7
				Oct. – May	9.0	13.0
	Cold Stream Tier II ⁽⁹⁸⁾	CS-II	all other cold-water species	April – Oct.	18.3	24.3
				Nov. – March	9.0	13.0
	Cold Lake	CL	brook trout, brown trout, cutthroat trout, lake trout, rainbow trout, Arctic grayling, sockeye salmon	April – Dec.	17.0	21.2
				Jan. – March	9.0	13.0
	Cold Large Lake (>100 acres surface area)	CLL	brown trout, lake trout, rainbow trout	April – Dec.	18.3	4.2
				Jan. – March	9.0	13.0
	Warm Stream Tier I	WS-I	common shiner, Johnny darter, orangethroat darter, stonecat	March – Nov.	24.2	29.0
				Dec. – Feb.	12.1	24.6
	Warm Stream Tier II	WS-II	brook stickleback, central stoneroller, creek chub, longnose dace, Northern redbelly dace, finescale dace, razorback sucker, white sucker, mountain sucker	March – Nov.	27.5	28.6
				Dec. – Feb.	13.8	25.2
Warm Stream Tier III	WS-III	all other warm-water Species	March – Nov.	28.7	31.8	
			Dec. – Feb.	14.3	24.9	
Warm Lakes	WL	yellow perch, walleye, pumpkinseed, smallmouth bass, striped bass, white bass, largemouth bass, bluegill, spottail shiner, stonecat, northern pike, tiger muskellunge, black crappie, common carp, gizzard shad, sauger, white crappie, wiper	April – Dec.	26.2	29.3	
			Jan. – March	13.1	24.1	
Uranium	Acute = e ^{(1.1021*ln(hardness)+2.7088)} Chronic = e ^{(1.1021*ln(hardness)+2.2382)}					
Zinc	Acute = 0.978*e ^{(0.9094*ln(hardness)+0.9095)} Chronic = 0.986*e ^{(0.9094*ln(hardness)+0.6235)} Where hardness is less than 102 mg/L CaCO ³ and mottled sculpin are expected to be present: Chronic (sculpin) = e ^{(2.140*ln(hardness)-5.084)}					

TABLE VALUE STANDARDS - FOOTNOTES

- (1) Metals are stated as dissolved unless otherwise specified. Nitrogen and phosphorus standards are based upon the concentration of total nitrogen and total phosphorus.
- (2) Hardness values to be used in equations are in mg/L as calcium carbonate and shall be no greater than 400 mg/L. The hardness values used in calculating the appropriate metal standard should be based on the lower 95 per cent confidence limit of the mean hardness value at the periodic low flow criteria as determined from a regression analysis of site-specific data. Where insufficient site-specific data exists to define the mean hardness value at the periodic low flow criteria, representative regional data shall be used to perform the regression analysis. Where a regression analysis is not appropriate, a site-specific method should be used. In calculating a hardness value, regression analyses should not be extrapolated past the point that data exist.
- (3) Both acute and chronic numbers adopted as stream standards are levels not to be exceeded more than once every three years on the average.

- (4) For acute conditions the default assumption is that salmonids could be present in cold water segments and should be protected, and that salmonids do not need to be protected in warm water segments. For chronic conditions, the default assumptions are that early life stages could be present all year in cold water segments and should be protected. In warm water segments the default assumption is that early life stages are present and should be protected only from April 1 through August 31. These assumptions can be modified by the Commission on a site-specific basis where appropriate evidence is submitted. The "T" in the chronic equations stands for temperature.
- (5) The acute(warm) cadmium equation applies to segments classified as Aquatic Life Warm Class 1 or 2. The acute(cold) cadmium equation applies to segments classified as Aquatic Life Cold Class 1 or 2.
- (6) For lakes and reservoirs, the chlorophyll a, total nitrogen, and total phosphorus standards for Aquatic Life and Recreation apply only to lakes and reservoirs greater than 25 acres in surface area. The chlorophyll a standard for Direct Use Water Supply (DUWS) applies to lakes and reservoirs of any size.
- ~~(76)~~ Unless the stable forms of chromium in a waterbody have been characterized and shown not to be predominantly chromium VI, data reported as the measurement of all valence states of chromium combined should be treated as chromium VI. In addition, in no case can the sum of the concentrations of chromium III and chromium VI or data reported as the measurement of all valence states of chromium combined exceed the water supply standards of 50 µg/L chromium in those waters classified for domestic water use.
- ~~(87)~~ Selenium is a bioaccumulative metal and subject to a range of toxicity values depending upon numerous site-specific variables.
- ~~(98)~~ Mountain whitefish-based summer temperature criteria [16.9 (ch), 21.2 (ac)] apply when and where spawning and sensitive early life stages of this species are known to occur.

(4) Site-specific Standards, Assessment Locations, and Assessment Criteria

- (a) White River Segment 13b Selenium Assessment Thresholds and Locations
- Corral Gulch, Se(ch)=5.7 µg/L
Assessment location: Corral Gulch at the mouth.
Duck Creek, Se(ch)=7.9 µg/L
Assessment location: Duck Creek at the mouth.
Yellow Creek, Se(ch)=6.9 µg/L
Assessment location: Yellow Creek upstream from the confluence with Barcus Creek.
Greasewood Creek, Se(ch)=6.0 µg/L
Assessment location: Greasewood Creek at the mouth.
- (b) White River Segment 13c Iron Assessment Threshold and Location
- Yellow Creek, Fe(ch)=1625 µg/L
Assessment location: Yellow Creek at the mouth.
- (c) Lower Colorado Segment 4e Iron Standards and Assessment
- Unnamed tributary, Iron (chronic) = 3500 (T) µg/L, assessment location as follows:

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

Dry Creek and remaining tributaries and wetlands, Iron (chronic) = 5900 (T) µg/L, assessment location as follows:

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

(d) Lower Colorado River Segment 1: Temperature Standards

Lower Colorado River from the confluence with the Roaring Fork River to Elk Creek

DM = 21.2 and MWAT = 16.9 from 4/1 – 5/31

DM and MWAT = CS-II from 6/1 – 9/30

DM = 21.2 and MWAT = 16.9 from 10/1 – 10/31

DM and MWAT = CS-II from 11/1 – 3/31

All other locations DM and MWAT = CS-II

(e) Lower Yampa River Segment 3g: Iron Standards and Assessment Locations

Iron Standards:

- Collom Gulch from the source to the diversion structure at 40.333977, -107.860833:

March-May, Iron(chronic) = 1500 µg/L, median of all data

June-February, Iron(chronic) = 1000(T)

Iron Assessment Location:

- Collom Gulch at County Road 32: located at 40.323530, -107.877200

(5) Stream Classifications and Water Quality Standards Tables

The stream classifications and water quality standards tables in Appendix 37-1 are incorporated herein by reference.

The following is information regarding duration and measured form of standards in Appendix 37-1:

- (a) *E. coli* criteria and resulting standards for individual water segments, are established as indicators of the potential presence of pathogenic organisms. Standards for *E. coli* are expressed as a two-month geometric mean. Site-specific or seasonal standards are also two-month geometric means unless otherwise specified.

~~(b) All phosphorus standards are based upon the concentration of total phosphorus.~~

- (eb) The pH standards of 6.5 (or 5.0) and 9.0 are an instantaneous minimum and maximum, respectively to be applied as effluent limits. In determining instream attainment of water

quality standards for pH, appropriate averaging periods may be applied, provided that beneficial uses will be fully protected.

(~~dc~~) All mercury standards apply to the total recoverable fraction of all forms, both organic and inorganic, of mercury in water.

(~~ed~~) All ammonia, nitrate, and nitrite standards are based upon the concentration reported as nitrogen.

37.7 – 37.9 RESERVED

37.46 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; NOVEMBER 14, 2022 RULEMAKING; FINAL ACTION _____; EFFECTIVE DATE APRIL 30, 2023

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

BASIS AND PURPOSE

A. Revision of Total Nitrogen and Total Phosphorus Table Value Standards for Lakes and Reservoirs at 31.17

In March 2012, the commission adopted interim numerical nutrient table value standards for chlorophyll *a* to protect the Aquatic Life, Recreation, and Direct Use Water Supply (DUWS) uses and table value standards for total nitrogen and total phosphorus to protect the Aquatic Life and Recreation uses (31.50) in lakes, reservoirs, rivers, and streams. In its July 2016 action letter for the March 2012 rulemaking hearing, EPA recommended revisiting the classification analysis for lakes and reservoirs to account for the variability between lakes (e.g., Cold and Warm lakes), evaluating confounding factors in the stressor-response relationship between nutrients and chlorophyll *a*, and evaluating whether the standards are protective of lakes with a high chlorophyll *a* yield per unit of nutrient.

In this hearing, the commission adopted revised total nitrogen and total phosphorus standards for lakes and reservoirs to address EPA's 2016 recommendations and ensure protective standards are adopted on lakes and reservoirs with Aquatic Life, Recreation, and/or DUWS uses (31.17 Table V). The numeric nutrient standards for total nitrogen and total phosphorus represent growing season (July through September) average concentrations with an allowable exceedance frequency is once in five years, and apply to lakes greater than 25 acres in size and with a residence time of at least 14 days. The commission adopted these standards into Regulation No. 31 and the basin regulations (Regulation Nos. 32-38) in this rulemaking; additional details about the revised total nitrogen and total phosphorus standards for lakes and reservoirs are included in 31.60.

B. Implementation of Nutrients Table Value Standards

The commission revised 37.5(4) to reflect the current status of the phased implementation framework for nutrients standards and remove information regarding implementation that concludes December 31, 2022. These revisions included removing language regarding phased implementation of chlorophyll *a* standards for lakes, reservoirs, rivers, and streams, as these standards now apply to all waterbodies with Aquatic Life, Recreation, and/or DUWS uses in Colorado. The information regarding the specific circumstances where nitrogen and phosphorus standards will apply before December 31, 2027 was clarified and includes additional references to 31.17. Also, to be consistent with past practice and the commission's intent in 31.55, the word "headwaters" was replaced with "waterbodies upstream of certain domestic and non-domestic wastewater treatment facilities". Finally, references to new Tables V

(nutrients standards for lakes and reservoirs) and VI (nutrients standards for rivers and streams) in 31.17 were also added.

The commission revised the Table Value Standards table in 37.6(3) to include chlorophyll *a*, total nitrogen, and total phosphorus. Instead of replicating the numerical values for these table value standards, the table references 31.17, as 31.17 contains the numeric standards (in Tables V and VI), implementation information, and additional details regarding the phased implementation framework. As part of this change, the commission revised Footnote 1 to specify that the nitrogen and phosphorus standards are based upon the total concentration; this information was previously contained in 37.6(5)(b), which was deleted. Additionally, the commission adopted a new Footnote 6 that clarifies that, with the exception of the chlorophyll *a* standard to protect the DUWS sub-classification, the chlorophyll *a*, total nitrogen, and total phosphorus standards apply only to lakes and reservoirs larger than 25 acres surface area. The chlorophyll *a* standard to protect DUWS lakes and reservoirs applies to lakes and reservoirs of all sizes. This information was previously included in the segment tables in Appendix 37-1, but was moved to Footnote 6 for clarity.

1. Nitrogen and Phosphorus Standards for Lakes, Reservoirs, Rivers, and Streams

a. Lakes and Reservoirs

Adoption of total phosphorus standards was previously limited to specific segments or portions of segments, as outlined in 31.50(VI)(A) (i.e., waterbodies above certain discharge facilities and site-specific situations where numeric standards were needed to protect uses). Prior to this rulemaking hearing, total nitrogen standards had not been adopted on any waterbodies. However, consistent with the phased implementation strategy developed in 2012 (31.50(VI)(A)) and 2017 (31.55), the commission expanded the adoption of the total phosphorus standards to also include all lake and reservoirs with the DUWS sub-classification and waterbodies with a public swim beach (defined as waterbodies with a natural swimming area per C.R.S § 25-5-801, including having a fee-based cordoned off swim area). The commission also adopted total nitrogen standards on the same set of waterbodies (i.e., waterbodies above certain discharge facilities, site-specific situations where numeric standards were needed to protect uses, DUWS, and swim beaches). Consistent with 31.17, the total phosphorus and total nitrogen standards apply only to lakes and reservoirs greater than 25 acres.

The commission previously adopted the DUWS sub-classification and notation in the Appendix 37-1 tables on several waterbodies in previous rulemaking hearings, but public swim beaches were identified in the current rulemaking. However, it was only necessary to specify the presence of a public swim beach in limited cases, because most public swim beaches in Colorado are also either classified as DUWS or located above certain discharge facilities; waterbodies falling into either of those categories are also assigned total nitrogen and total phosphorus standards. Therefore, the “Public Swim Beach” notation only needed to be applied to waterbodies where the total nitrogen and total phosphorus standards were only being applied due to the presence of a swim beach. In Regulation No. 37, all public swim beaches are also classified as DUWS or located above certain discharge facilities, so total nitrogen and total phosphorus standards were adopted for those reasons. As a result, there was not a need to add total nitrogen and total phosphorus standards solely due to the presence of a public swim beach on any waterbodies.

b. Rivers and Streams

In rivers and streams, the commission did not adopt total phosphorus standards on any additional river or stream waterbodies or total nitrogen table value standards on any waterbodies, consistent with the phased implementation timeline outlined in 31.17 and 37.5(4).

c. Formatting of Nitrogen and Phosphorus Standards in Appendix 37-1

The commission changed how previously-adopted total phosphorus table value standards were presented in the segment tables in Appendix 37-1. Specifically, the table value standards were previously shown as numeric values, which were replaced with “TVS”. Similarly, any total nitrogen or total phosphorus standards adopted in this rulemaking hearing were adopted into the Appendix 37-1 tables as “TVS”. This approach allows the regulation to point directly to 31.17, which has a complete record of information regarding these table value standards.

2. Chlorophyll a Standards for Lakes, Reservoirs, Rivers, and Streams

The commission made no changes to the chlorophyll a standards to protect Aquatic Life, Recreation, and/or DUWS uses in lakes, reservoirs, rivers, or streams. In addition, the commission made no changes to existing site-specific chlorophyll a standards.

Adoption of chlorophyll a standards was previously limited to specific segments or portions of segments, as outlined in 31.50(VI)(A) (i.e., waterbodies above certain discharge facilities and site-specific situations where numeric standards were needed to protect uses). However, consistent with the phased implementation strategy developed in 2012 (31.50(VI)(A)) and 2017 (31.55), the commission expanded the adoption of chlorophyll a standards to all segments with Aquatic Life, Recreation, and/or DUWS uses.

Specifically, in this rulemaking hearing, the commission adopted the chlorophyll a table value standard of 8 µg/L for all cold water lakes or reservoirs (larger than 25 acres) with Aquatic Life or Recreation E, U, or P uses; 20 µg/L for all warm water lakes or reservoirs (larger than 25 acres) with Aquatic Life or Recreation E, U, or P uses; and 150 mg/m² for all cold or warm water streams with a Recreation E, U, or P use. In the segment tables in Appendix 37-1, these table value standards were adopted as “TVS” and any previously-adopted table value standards shown as numeric values were changed to “TVS”. This approach allows the regulation to point directly to 31.17, which has a complete record of information regarding these table value standards.

In addition, the commission adopted the table value standard of 5 µg/L for all lakes or reservoirs (of any size) with DUWS; in Appendix 37-1, these table value standards are shown as “DUWS”. The phased implementation of the chlorophyll a standards adoption is now complete.

C. Clarifications and Corrections

The following edits were made to Appendix 37-1 to improve clarity and correct errors:

- The Direct Use Water Supply (DUWS) references in segments in Appendix 37-1 were revised to improve clarity and consistency.
- Where the chlorophyll a and phosphorus standards adopted in previous rulemaking hearings were not consistent with the use(s), the commission made the following corrections:

White River: 6a (COLCLC13d; chlorophyll a and phosphorus; delete because the chlorophyll a and phosphorus standards for Aquatic Life and/or Recreation do not apply to lakes and reservoirs of 25 acres or less, and Violett Springs Ponds are less than 25 acres in size)

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

5 CCR 1002-37

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

**APPENDIX 37-1
Stream Classifications and Water Quality Standards Tables**

Effective ~~09/30/2022~~04/30/2023

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>
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 #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

1. Deleted.						
COLCLY01	Classifications	Physical and Biological		Metals (ug/L)		
Designation		DM	MWAT	acute	chronic	
Qualifiers:		acute	chronic			
Other:		Inorganic (mg/L)				
		acute	chronic			
2. Mainstem of the Yampa River from a point immediately below the confluence with Elkhead Creek to the confluence with the Green River.						
COLCLY02	Classifications	Physical and Biological		Metals (ug/L)		
Designation		DM	MWAT	acute	chronic	
Reviewable	Agriculture	WS-II	WS-II	Arsenic	340	---
	Aq Life Warm 1	acute	chronic	Arsenic(T)	---	0.02
	Recreation E	D.O. (mg/L)	---	Cadmium	TVS	TVS
	Water Supply	pH	6.5 - 9.0	Cadmium(T)	5.0	---
Qualifiers:		chlorophyll a (mg/m ²)	---	Chromium III	---	TVS
Other:		E. coli (per 100 mL)	---	Chromium III(T)	50	---
Temporary Modification(s):		Inorganic (mg/L)		Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid		acute	chronic	Copper	TVS	TVS
Expiration Date of 12/31/2024		Ammonia	TVS	Iron	---	WS
*Uranium(acute) = See 37.5(3) for details.		Boron	---	Iron(T)	---	1000
*Uranium(chronic) = See 37.5(3) for details.		Chloride	---	Lead	TVS	TVS
		Chlorine	0.019	Lead(T)	50	---
		Cyanide	0.005	Manganese	TVS	TVS/WS
		Nitrate	10	Mercury(T)	---	0.01
		Nitrite	---	Molybdenum(T)	---	150
		Phosphorus	---	Nickel	TVS	TVS
		Sulfate	---	Nickel(T)	---	100
		Sulfide	---	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

3a. All tributaries to the Yampa River, including all wetlands, from a point immediately below the confluence with Elkhead Creek to a point immediately below the confluence with the Little Snake River, except for listings in Segments 3b through 15, 17a, 17b and 18.

COLCLY03A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Water Supply	acute		chronic	Arsenic(T)	---	0.02
	Recreation P	D.O. (mg/L)	---	5.0	Beryllium(T)	---	100
Qualifiers:		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
Water + Fish Standards Apply		chlorophyll a (mg/m²)	---	150 TVS	Cadmium(T)	5.0	---
Other:		E. coli (per 100 mL)	---	205	Chromium III	---	TVS
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		Inorganic (mg/L)			Chromium III(T)	50	---
		acute		chronic	Chromium VI	TVS	TVS
		Ammonia	TVS	TVS	Copper	TVS	TVS
		Boron	---	0.75	Iron	---	WS
		Chloride	---	250	Iron(T)	---	1000
		Chlorine	0.019	0.011	Lead	TVS	TVS
		Cyanide	0.005	---	Lead(T)	50	---
		Nitrate	10	---	Manganese	TVS	TVS/WS
		Nitrite	---	0.05	Manganese(T)	---	200
		Phosphorus	---	0.47 TVS	Mercury(T)	---	0.01
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

3b. Mainstems of Upper Johnson Gulch from its source to confluence with Pyeatt Gulch at CO 107. Mainstems of Pyeatt Gulch, Ute Gulch, Castor Gulch, No Name Gulch, Flume Gulch, Buzzard Gulch, Coyote Gulch, Deal Gulch, Horse Gulch (BOTH), Elk Gulch, Jeffway Gulch, and Deacon Gulch, including all tributaries from their sources to their mouths.

COLCLY03B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Recreation P		acute	chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Beryllium(T)	---	100
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III	TVS	TVS
		E. coli (per 100 mL)	---	205	Chromium III(T)	---	100
		Inorganic (mg/L)			Chromium VI	TVS	TVS
			acute	chronic	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	---	Manganese	TVS	TVS
		Chlorine	0.019	0.011	Manganese(T)	---	200
		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	100	---	Molybdenum(T)	---	150
		Nitrite	---	0.05	Nickel	TVS	TVS
		Phosphorus	---	0.47 TVS	Selenium	TVS	TVS
		Sulfate	---	---	Silver	TVS	TVS
		Sulfide	---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

3c. Mainstem of Milk Creek, including all tributaries and wetlands, from Thornburgh (County Rd 15) to the confluence with the Yampa River, except for listings in Segment 3b and 3e.							
COLCLY03C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation P	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	150 TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	205	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic		Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.		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)	---	150
		Phosphorus	---	0.17 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nicel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
3d. Mainstems of Temple Gulch and Morgan Gulch from their sources to their confluences with the Yampa River.							
COLCLY03D	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation P	acute	chronic		Arsenic(T)	---	100
		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
Other:		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	---	100
*Uranium(acute) = See 37.5(3) for details.		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
*Uranium(chronic) = See 37.5(3) for details.		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 TVS	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

3d. Mainstems of Temple Gulch and Morgan Gulch from their sources to their confluences with the Yampa River.							
COLCLY03D	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation P		acute	chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m²)	---	150 TVS	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)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	100	---	Selenium	TVS	TVS
		Nitrite	---	0.05	Silver	TVS	TVS
		Phosphorus	---	0.17 TVS	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

3e. Mainstem of Good Spring Creek and its tributaries above Wilson Reservoir.

COLCLY03E	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation P	acute		chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III	---	TVS
		E. coli (per 100 mL)	---	205	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)	---	150
		Phosphorus	---	0.17 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

3f. Big Gulch.

COLCLY03F	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Beryllium(T)	---	100
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III	TVS	TVS
		E. coli (per 100 mL)	---	126	Chromium III(T)	---	100
		Inorganic (mg/L)			Chromium VI	TVS	TVS
		acute		chronic	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	---	Manganese	TVS	TVS
		Chlorine	0.019	0.011	Manganese(T)	---	200
		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	100	---	Molybdenum(T)	---	150
		Nitrite	---	0.05	Nickel	TVS	TVS
		Phosphorus	---	0.17 TVS	Selenium	TVS	TVS
		Sulfate	---	---	Silver	TVS	TVS
		Sulfide	---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

3g. Mainstems of Ben Morgan Creek, Boxelder Gulch, Collom Gulch, Hale Gulch and Jubb Creek, including all tributaries from their sources to their mouths, except for listings in Segment 3j.							
COLCLY03G	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Recreation P	acute	chronic	Arsenic(T)	---	100	
Qualifiers:		D.O. (mg/L)	---	5.0	Beryllium(T)	---	100
Other: *Iron(T)(chronic) = See section 37.6(4) for standards and assessment locations for Collom Gulch from the source to the diversion structure at 40.333977, -107.860833. *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
		chlorophyll a (mg/m²)	---	450TVS	Chromium III	TVS	TVS
		E. coli (per 100 mL)	---	205	Chromium III(T)	---	100
		Inorganic (mg/L)			Chromium VI	TVS	TVS
		acute	chronic	Copper	TVS	TVS	
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Iron(T)	---	varies*
		Chloride	---	---	Lead	TVS	TVS
		Chlorine	0.019	0.011	Manganese	TVS	TVS
		Cyanide	0.005	---	Manganese(T)	---	200
		Nitrate	100	---	Mercury(T)	---	0.01
		Nitrite	---	0.05	Molybdenum(T)	---	150
		Phosphorus	---	0.17TVS	Nickel	TVS	TVS
		Sulfate	---	---	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
3h. Lay Creek from the source to the confluence with the Yampa River.							
COLCLY03H	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation P	acute	chronic	Arsenic(T)	---	0.02-10	A
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		chlorophyll a (mg/m²)	---	450TVS	Chromium III	---	TVS
		E. coli (per 100 mL)	---	205	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)	---	150
		Phosphorus	---	0.17TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

3i. Lower Johnson Gulch from the confluence with Pyeatt Gulch at CO 107 to the confluence with the Yampa River.						
COLCLY03I	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 2 Recreation P	Temperature °C	WS-III WS-III		Arsenic	340 ---
Qualifiers:		acute	chronic		Arsenic(T)	---
Other:		D.O. (mg/L)	---	5.0	Cadmium	TVS TVS
		pH	6.5 - 9.0	---	Chromium III	TVS TVS
		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	---
		E. coli (per 100 mL)	---	205	Chromium VI	TVS TVS
		Inorganic (mg/L)			Copper	TVS TVS
		acute	chronic		Iron(T)	---
		Ammonia	TVS	TVS	Lead	TVS TVS
		Boron	---	0.75	Manganese	TVS TVS
		Chloride	---	---	Mercury(T)	---
		Chlorine	0.019	0.011	Molybdenum(T)	---
		Cyanide	0.005	---	Nickel	TVS TVS
		Nitrate	100	---	Selenium	TVS TVS
		Nitrite	---	0.05	Silver	TVS TVS
		Phosphorus	---	0.47 TVS	Uranium	varies* varies*
		Sulfate	---	---	Zinc	TVS TVS
		Sulfide	---	0.002		

*Uranium(acute) = See 37.5(3) for details.
*Uranium(chronic) = See 37.5(3) for details.

3j. Mainstem of Little Collom Gulch from the source to the confluence with Collom Gulch.						
COLCLY03J	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 2 Recreation P	Temperature °C	WS-III WS-III		Arsenic(T)	---
Qualifiers:		acute	chronic		Beryllium(T)	---
Other:		D.O. (mg/L)	---	5.0	Cadmium(T)	---
		pH	6.5 - 9.0	---	Chromium III(T)	---
		chlorophyll a (mg/m ²)	---	150 TVS	Chromium VI(T)	---
		E. coli (per 100 mL)	---	205	Copper(T)	---
		Inorganic (mg/L)			Iron	---
		acute	chronic		Lead(T)	---
		Ammonia	---	---	Manganese(T)	---
		Boron	---	0.75	Mercury(T)	---
		Chloride	---	---	Molybdenum(T)	---
		Chlorine	---	---	Nickel(T)	---
		Cyanide	0.2	---	Selenium(T)	---
		Nitrate	100	---	Silver	---
		Nitrite	10	---	Uranium	varies* varies*
		Phosphorus	---	0.47 TVS	Zinc(T)	---
		Sulfate	---	---		2000
		Sulfide	---	---		

*Uranium(acute) = See 37.5(3) for details.
*Uranium(chronic) = See 37.5(3) for details.

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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

4. North and South Fork of Fortification Creek, including all wetlands and tributaries, from their sources to their confluence. Little Cottonwood Creek, including all tributaries and wetlands from the source to the confluence with Fortification Creek.							
COLCLY04	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation P	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)
5. Mainstem of Fortification Creek from the confluence of the North Fork and South Fork to the confluence with the Yampa River.							
COLCLY05	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	150 TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS	TVS	
*Uranium(acute) = See 37.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.		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)	---	150
		Phosphorus	---	0.17 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

6. All tributaries to Fortification Creek, including all wetlands, from the confluence of the North and South Forks to the confluence with the Yampa River, except for listings in Segments 4 and 7.

COLCLY06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Recreation P	acute		chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		chlorophyll a (mg/m ²)	---	450 TVS	Chromium III	---	TVS
		E. coli (per 100 mL)	---	205	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)	---	150
		Phosphorus	---	0.47 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.05	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

7. Mainstem of Little Bear Creek, including all tributaries and wetlands, from the source to the confluence with Dry Fork.

COLCLY07	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation P	acute		chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m²)	---	450 TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	205	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
					Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	TVS	TVS/TVS(sc)
		Phosphorus	---	0.44 TVS			
Sulfate	---	---					
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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

8. Mainstem of the East Fork of the Williams Fork River, including all tributaries and wetlands which are within the boundaries of the Flat Tops Wilderness Area.						
COLCLY08	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
OW	Aq Life Cold 1	Temperature °C	CS-I CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---
Other:		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Phosphorus	---	0.14TVS	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
				Uranium	varies*	varies*
				Zinc	TVS	TVS
9. Mainstems of the East and South Forks of the Williams Fork River, including all wetlands and tributaries, which are within the boundary of Routt National Forest, except for listings in Segment 8 and 12c.						
COLCLY09	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I CS-I	Arsenic	340	---
	Recreation P	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---
Other:		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	205	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Phosphorus	---	0.14TVS	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

10. Mainstem of the East Fork of the Williams Fork River including all tributaries and wetlands, from the boundary of Routt National Forest to the confluence with the South Fork of the Williams Fork River.							
COLCLY10	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Iron	---	WS
*Uranium(acute) = See 37.5(3) for details.		acute	chronic	Iron(T)	---	1000	
*Uranium(chronic) = See 37.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)
11. Deleted.							
COLCLY11	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT	acute	chronic		
Qualifiers:		acute	chronic				
Other:							
		Inorganic (mg/L)					
		acute	chronic				

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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

12a. Mainstem of the South Fork of the Williams Fork River and Beaver Creek, including all tributaries and wetlands, from the boundary of Routt National Forest to their mouths. Milk Creek, including all tributaries and wetlands, from the source to a point just below the confluence with Clear Creek. Morapos Creek, including all wetlands and tributaries, from the source to the confluence with the Williams Fork River.

COLCLY12A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation P	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

12b. Milk Creek, including all tributaries and wetlands, from a point just below the confluence with Clear Creek to Thornburgh (County Rd 15).

COLCLY12B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation P	acute	chronic		Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m²)	---	150 TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	205	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
					Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	250	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)
		Nitrate	10	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	TVS	TVS
		Phosphorus	---	0.11 TVS			
Sulfate	---	---					
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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

12c. Mainstem of Beaver Creek, including all wetlands and tributaries, which are within the Routt National Forest.							
COLCLY12C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation P	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

13a. Mainstem of the Williams Fork River from the confluence of the East Fork and South Fork to below the confluence with Morapos Creek.							
COLCLY13A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02-10	^A
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

13a. Mainstem of the Williams Fork River from the confluence of the East Fork and South Fork to below the confluence with Morapos Creek.							
COLCLY13A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

13b. Mainstem of the Williams Fork River from below the confluence of Morapos Creek to the confluence with the Yampa River.						
COLCLY13B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Other:		chlorophyll a (mg/m ²)	---	150TVS	Chromium III	---
		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	---
		Boron	---	0.75	Iron(T)	---
		Chloride	---	250	Lead	TVS
		Chlorine	0.019	0.011	Lead(T)	50
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	---	0.05	Molybdenum(T)	---
		Phosphorus	---	0.17TVS	Nickel	TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	TVS

14. Deleted.						
COLCLY14	Classifications	Physical and Biological			Metals (ug/L)	
Designation		DM	MWAT		acute	chronic
Qualifiers:		acute	chronic			
Other:						
		Inorganic (mg/L)				
		acute	chronic			

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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

15. Those portions of the Little Snake River which are in Colorado, from its first crossing of the Colorado/Wyoming border to a point immediately above the confluence with Powder Wash (Moffatt County).							
COLCLY15	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)
16. Mainstem of the Little Snake River from a point immediately above the confluence with Powder Wash to the confluence with the Yampa River.							
COLCLY16	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Water + Fish Standards Apply		chlorophyll a (mg/m²)	---	450 TVS	Chromium III	---	TVS
Other:		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Temporary Modification(s):		Inorganic (mg/L)			Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid		acute	chronic	Copper	TVS	TVS	
Expiration Date of 12/31/2024		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(acute) = See 37.5(3) for details.		Boron	---	0.75	Iron(T)	---	4400
*Uranium(chronic) = See 37.5(3) for details.		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)	---	150
		Phosphorus	---	0.17 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

17a. All tributaries to the Little Snake River from its first crossing of the Colorado/Wyoming border to a point immediately below the confluence with Fourmile Creek, except for the listings in Segment 18.

COLCLY17A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation P	acute	chronic		Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
	*Uranium(acute) = See 37.5(3) for details.	chlorophyll a (mg/m²)	---	450 TVS	Chromium VI	TVS	TVS
	*Uranium(chronic) = See 37.5(3) for details.	E. coli (per 100 mL)	---	205	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
		acute	chronic		Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	TVS	TVS
		Phosphorus	---	0.11 TVS			
		Sulfate	---	---			
		Sulfide	---	0.002			

17b. All tributaries to the Little Snake River from a point immediately below the confluence with Fourmile Creek to the confluence with the Yampa River, except for the listing in Segment 17c.

COLCLY17B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Recreation P	acute		chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Beryllium(T)	---	100
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
		chlorophyll a (mg/m²)	---	450 TVS	Chromium III	TVS	TVS
		E. coli (per 100 mL)	---	205	Chromium III(T)	---	100
		Inorganic (mg/L)			Chromium VI	TVS	TVS
		acute		chronic	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	---	Manganese	TVS	TVS
		Chlorine	0.019	0.011	Manganese(T)	---	200
		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	100	---	Molybdenum(T)	---	---
		Nitrite	---	0.05	Nickel	TVS	TVS
		Phosphorus	---	0.17 TVS	Selenium	TVS	TVS
		Sulfate	---	---	Silver	TVS	TVS
		Sulfide	---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

17c. Scandinavian Gulch from the source to the confluence with the Little Snake River.						
COLCLY17C	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 2 Recreation P	Temperature °C	WS-III WS-III	Arsenic	340	---
Qualifiers:		acute	chronic	Arsenic(T)	---	0.02-10 ^A
Other:		D.O. (mg/L)	---	5.0	Cadmium	TVS
		pH	6.5 - 9.0	---	Chromium III	TVS
		chlorophyll a (mg/m ²)	---	150TVS	Chromium III(T)	---
		E. coli (per 100 mL)	---	205	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Manganese	TVS
		Chloride	---	---	Mercury(T)	---
		Chlorine	0.019	0.011	Molybdenum(T)	---
		Cyanide	0.005	---	Nickel	TVS
		Nitrate	100	---	Selenium	TVS
		Nitrite	---	0.05	Silver	TVS
		Phosphorus	---	0.14TVS	Uranium	varies*
		Sulfate	---	---	Zinc	TVS
		Sulfide	---	0.05		

18. Mainstem of Slater Creek, including all tributaries and wetlands, from the source to a point just below the confluence with Second Creek. The mainstems of Fourmile and Willow Creeks, including all tributaries and wetlands, from their sources to the boundary of the Routt National Forest.						
COLCLY18	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1 Recreation P Water Supply	Temperature °C	CS-I CS-I	Arsenic	340	---
Qualifiers:		acute	chronic	Arsenic(T)	---	0.02
Other:		D.O. (mg/L)	---	6.0	Cadmium	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (mg/m ²)	---	150TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	205	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Phosphorus	---	0.14TVS	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
					Uranium	varies*
					Zinc	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

19a. Mainstem of the Green River within Colorado (Moffat County) from its entry at the Utah/Colorado border to a point just above the confluence with the Yampa River.						
COLCLY19A	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
Water Supply		D.O. (mg/L)	---	6.0	Cadmium	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---
Other:		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
*Uranium(acute) = See 37.5(3) for details.	*Uranium(chronic) = See 37.5(3) for details.	Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
Ammonia		TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	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		---	0.14TVS	Nickel(T)	---	100
Sulfate		---	WS	Selenium	TVS	TVS
Sulfide		---	0.002	Silver	TVS	TVS(tr)
				Uranium	varies*	varies*
				Zinc	TVS	TVS
19b. Mainstem of the Green River within Colorado (Moffat County) from a point just above the confluence with the Yampa River to its exit at the Utah/Colorado border.						
COLCLY19B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
Water Supply		D.O. (mg/L)	---	5.0	Cadmium	TVS
		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Qualifiers:		chlorophyll a (mg/m ²)	---	450TVS	Chromium III	---
Other:		E. coli (per 100 mL)	---	126	Chromium III(T)	50
		Inorganic (mg/L)		Chromium VI	TVS	TVS
Ammonia		acute	chronic	Copper	TVS	TVS
		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)	---	150
Phosphorus		---	0.17TVS	Nickel	TVS	TVS
Sulfate		---	WS	Nickel(T)	---	100
Sulfide		---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

20. All tributaries to the Green River in Colorado, including all wetlands, except for the specific listings in Segments 21 and 22a - 22d. All tributaries to the Yampa River from a point immediately below the confluence with the Little Snake River to the confluence with the Green River, except for listings in segments 15 through 18.

COLCLY20	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 2 Recreation E	Temperature °C	CS-II CS-II	Arsenic	340 ---
Qualifiers:		acute	chronic	Arsenic(T)	--- 100
Other:		D.O. (mg/L)	--- 6.0	Beryllium(T)	--- 100
		D.O. (spawning)	--- 7.0	Cadmium	TVS TVS
		pH	6.5 - 9.0 ---	Chromium III	TVS TVS
		chlorophyll a (mg/m²)	--- 150 TVS	Chromium III(T)	--- 100
		E. coli (per 100 mL)	--- 126	Chromium VI	TVS TVS
				Copper	TVS TVS
		Inorganic (mg/L)		Iron(T)	--- 1000
		acute	chronic	Lead	TVS TVS
		Ammonia	TVS TVS	Manganese	TVS TVS
		Boron	--- 0.75	Manganese(T)	--- 200
		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	--- 0.44 TVS	Uranium	varies* varies*
		Sulfate	--- ---	Zinc	TVS TVS
		Sulfide	--- 0.002		

21. Mainstem of Beaver Creek, including all tributaries and wetlands, from the source to the confluence with the Green River within Colorado.

COLCLY21	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1 Recreation P Water Supply	Temperature °C	CS-I CS-I	Arsenic	340 ---
Qualifiers:		acute	chronic	Arsenic(T)	--- 0.02
Other:		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/m²)	--- 150 TVS	Chromium III(T)	50 ---
		E. coli (per 100 mL)	--- 205	Chromium VI	TVS TVS
				Copper	TVS TVS
		Inorganic (mg/L)		Iron	--- WS
		acute	chronic	Iron(T)	--- 1000
		Ammonia	TVS TVS	Lead	TVS TVS
		Boron	--- 0.75	Lead(T)	50 ---
		Chloride	--- 250	Manganese	TVS TVS/WS
		Chlorine	0.019 0.011	Mercury(T)	--- 0.01
		Cyanide	0.005 ---	Molybdenum(T)	--- 150
		Nitrate	10 ---	Nickel	TVS TVS
		Nitrite	--- 0.05	Nickel(T)	--- 100
		Phosphorus	--- 0.44 TVS	Selenium	TVS TVS
		Sulfate	--- WS	Silver	TVS TVS(tr)
		Sulfide	--- 0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

22a. Mainstem of Vermillion Creek, including all tributaries and wetlands, from the Colorado/Wyoming border to a point just below the confluence with Talamantes Creek.							
COLCLY22A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation P		acute	chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:	*Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.	D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m²)	---	450TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	205	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
			acute	chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	TVS	TVS
		Phosphorus	---	0.44TVS			
		Sulfate	---	---			
		Sulfide	---	0.002			
		22b. Vermillion Creek, including all tributaries and wetlands, from a point just below the confluence with Talamantes Creek to the confluence with the Green River, except for the listing in segment 22c.					
COLCLY22B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Recreation P		acute	chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other:	*Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.	pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m²)	---	450TVS	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)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	100	---	Selenium	TVS	TVS
		Nitrite	---	0.05	Silver	TVS	TVS
		Phosphorus	---	0.47TVS	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

22c. Mainstem of Vermillion Creek from HWY 318 to the confluence with the Green River.							
COLCLY22C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	7.6	
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m²)	---	450TVS	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	---	0.14TVS	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
Sulfide	---	0.002					

22d. Conway Draw							
COLCLY22D	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02-10	A
	Water Supply	D.O. (mg/L)	---	6.0	Beryllium(T)	---	4.0
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
		chlorophyll a (mg/m²)	---	450TVS	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	---	Manganese(T)	---	200
		Nitrite	---	0.05	Mercury(T)	---	0.01
		Phosphorus	---	0.14TVS	Molybdenum(T)	---	150
		Sulfate	---	WS	Nickel	TVS	TVS
Sulfide	---	0.002	Nickel(T)	---	100		
			Selenium	TVS	TVS		
			Silver	TVS	TVS(tr)		
			Uranium	varies*	varies*		
			Zinc	TVS	TVS		

22d. Conway Draw

COLCLY22D	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	6.0	Beryllium(T)	---	4.0
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
		chlorophyll a (mg/m²)	---	450 TVS	Chromium III	---	TVS
		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
					Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
					Iron	---	WS
					Iron(T)	---	1000
					Lead	TVS	TVS
					Lead(T)	50	---
					Manganese	TVS	TVS/WS
					Manganese(T)	---	200
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

23. All lakes and reservoirs tributary to the Yampa River, from a point just below the confluence with Elkhead Creek to a point just below the confluence with the Little Snake River except for listings in segments 24-32. This segment includes Martin Cull Reservoir, and OVO Reservoir.

COLCLY23	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 1 Recreation U	WL	WL	Arsenic	340	---
Qualifiers:		acute	chronic	Arsenic(T)	---	7.6
Other:		D.O. (mg/L)	---	5.0	Cadmium	TVS
		pH	6.5 - 9.0	---	Chromium III	TVS
		chlorophyll a (ug/L)	---	20*TVS	Chromium III(T)	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Manganese	TVS
		Chloride	---	---	Mercury(T)	---
		Chlorine	0.019	0.011	Molybdenum(T)	---
		Cyanide	0.005	---	Nickel	TVS
		Nitrate	100	---	Selenium	TVS
		Nitrite	---	0.05	Silver	TVS
		Nitrogen	---	TVS	Uranium	varies*
		Phosphorus	---	0.083*TVS	Zinc	TVS
		Sulfate	---	---		
		Sulfide	---	0.002		

24. Freeman Reservoir and Aldrich Lakes.

COLCLY24	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1 Recreation E	CL	CL	Arsenic	340	---
Qualifiers:		acute	chronic	Arsenic(T)	---	7.6
Other:		D.O. (mg/L)	---	6.0	Cadmium	TVS
		D.O. (spawning)	---	7.0	Chromium III	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---
		chlorophyll a (ug/L)	---	8*TVS	Chromium VI	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS
		Inorganic (mg/L)		Iron(T)	---	1000
		acute	chronic	Lead	TVS	TVS
		Ammonia	TVS	TVS	Manganese	TVS
		Boron	---	0.75	Mercury(T)	---
		Chloride	---	---	Molybdenum(T)	---
		Chlorine	0.019	0.011	Nickel	TVS
		Cyanide	0.005	---	Selenium	TVS
		Nitrate	100	---	Silver	TVS(tr)
		Nitrite	---	0.05	Uranium	varies*
		Nitrogen	---	TVS	Zinc	TVS
		Phosphorus	---	0.025*TVS		
		Sulfate	---	---		
		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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

25. All lakes and reservoirs tributary to Fortification Creek from the source to the confluence of the North and South Forks. All lakes and reservoirs tributary to Little Cottonwood Creek from the source to the confluence with Fortification Creek, except for listings in segment 24. All lakes and reservoirs tributary to Little Bear Creek from the source to the confluence with the Dry Fork.

COLCLY25	Classifications	Physical and Biological		Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation U	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
<div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 37.5(3) for details.</div> <div>*Uranium(chronic) = See 37.5(3) for details.</div>		chlorophyll a (ug/L)	---	8±TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)		Copper	TVS	TVS	
				Iron	---	WS	
				Iron(T)	---	1000	
				Lead	TVS	TVS	
				Lead(T)	50	---	
				Manganese	TVS	TVS/WS	
				Mercury(T)	---	0.01	
				Molybdenum(T)	---	150	
				Nickel	TVS	TVS	
				Nickel(T)	---	100	
				Nitrogen	---	TVS	
				Phosphorus	---	0.025±TVS	
				Sulfate	---	WS	
				Sulfide	---	0.002	
					Zinc	TVS	TVS

26. All lakes and reservoirs tributary to Fortification Creek, including Ralph White Lake, except for listings in segments 24 and 25.

COLCLY26	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation U	acute	chronic	Arsenic(T)	---	7.6	
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (ug/L)	---	20*TVS	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(tr)
		Nitrogen	---	TVS	Uranium	varies*	varies*
		Phosphorus	---	0.083*TVS	Zinc	TVS	TVS
		Sulfate	---	---			
	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

27. All lakes and reservoirs tributary to Milk Creek from Thornburgh (County Rd 15) to the confluence with the Yampa River, including Wilson Reservoir.								
COLCLY27	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---	
	Recreation U	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		chlorophyll a (ug/L)	---	20±TVS	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)	---	150	
		Nitrogen	---	TVS	Nickel	TVS	TVS	
		Phosphorus	---	0.083±TVS	Nickel(T)	---	100	
		Sulfate	---	WS	Selenium	TVS	TVS	
		Sulfide	---	0.002	Silver	TVS	TVS	
					Uranium	varies*	varies*	
					Zinc	TVS	TVS	
		28. All lakes and reservoirs tributary to the East Fork of the Williams Fork River, within the boundaries of the Flat Tops Wilderness Area.						
		COLCLY28	Classifications	Physical and Biological			Metals (ug/L)	
		Designation	Agriculture	DM	MWAT	acute	chronic	
OW	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (ug/L)	---	8±TVS	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	
		Nitrogen	---	TVS	Nickel(T)	---	100	
		Phosphorus	---	0.025±TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	

28. All lakes and reservoirs tributary to the East Fork of the Williams Fork River, within the boundaries of the Flat Tops Wilderness Area.							
COLCLY28	Classifications	Physical and Biological		Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic		
OW	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
	Qualifiers:	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
<div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 37.5(3) for details.</div> <div>*Uranium(chronic) = See 37.5(3) for details.</div>		chlorophyll a (ug/L)	---	8*TVS	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
		Nitrogen	---	TVS	Nickel(T)	---	100
		Phosphorus	---	0.025*TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

29. All lakes and reservoirs tributary to the East and South Forks of the Williams Fork River, and lakes and reservoirs tributary to the mainstem of the Williams Fork River, from the source to the Highway 13/789 bridge at Hamilton, except for listings in segment 28.

COLCLY29	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	CL	CL	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---
	Water Supply	D.O. (mg/L)	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	Chromium III	---
*Chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		chlorophyll a (ug/L)	8*TVS	Chromium III(T)	50
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		E. coli (per 100 mL)	126	Chromium VI	TVS
*Uranium(acute) = See 37.5(3) for details.		Inorganic (mg/L)		Copper	TVS
*Uranium(chronic) = See 37.5(3) for details.		acute	chronic	Iron	---
		Ammonia	TVS	Iron(T)	---
		Boron	0.75	Lead	TVS
		Chloride	250	Lead(T)	50
		Chlorine	0.019	Manganese	TVS
		Cyanide	0.005	Mercury(T)	---
		Nitrate	10	Molybdenum(T)	---
		Nitrite	0.05	Nickel	TVS
		Nitrogen	---	Nickel(T)	---
		Phosphorus	0.025*TVS	Selenium	TVS
		Sulfate	WS	Silver	TVS
		Sulfide	0.002	Uranium	varies*
				Zinc	TVS

30. All lakes and reservoirs tributary to Milk Creek from the source to Thornburgh (County Rd 15). All lakes and reservoirs tributary to Morapos Creek from the source to the confluence with the Williams Fork River.

COLCLY30	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	CL	CL	Arsenic	340
	Recreation U	acute	chronic	Arsenic(T)	---
Qualifiers:		D.O. (mg/L)	6.0	Cadmium	TVS
Other:		D.O. (spawning)	7.0	Chromium III	TVS
*Chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		pH	6.5 - 9.0	Chromium III(T)	---
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		chlorophyll a (ug/L)	8*TVS	Chromium VI	TVS
*Uranium(acute) = See 37.5(3) for details.		E. coli (per 100 mL)	126	Copper	TVS
*Uranium(chronic) = See 37.5(3) for details.		Inorganic (mg/L)		Iron(T)	1000
		acute	chronic	Lead	TVS
		Ammonia	TVS	Manganese	TVS
		Boron	0.75	Mercury(T)	---
		Chloride	---	Molybdenum(T)	150
		Chlorine	0.019	Nickel	TVS
		Cyanide	0.005	Selenium	TVS
		Nitrate	100	Silver	TVS
		Nitrite	0.05	Uranium	varies*
		Nitrogen	---	Zinc	TVS
		Phosphorus	0.025*TVS		
		Sulfate	---		
		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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

31. All lakes and reservoirs tributary to Slater Creek, from the source to a point just below the confluence with Second Creek, including Slater Creek Lake. All lakes and reservoirs tributary to Fourmile and Willow Creeks from their sources to the boundary of the Routt National Forest.

COLCLY31	Classifications	Physical and Biological		Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation U	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:	<div><div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div><div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div><div>*Uranium(acute) = See 37.5(3) for details.</div><div>*Uranium(chronic) = See 37.5(3) for details.</div></div>	pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (ug/L)	---	8*TVS	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
		Nitrogen	---	TVS	Nickel(T)	---	100
		Phosphorus	---	0.025*TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

32. All lakes and reservoirs tributary to the Yampa River from a point just below the confluence with the Little Snake River to the confluence with the Green River. All lakes and reservoirs tributary to the Green River in Colorado, including Hog Lake, except for listings in segment 33.

COLCLY32	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (ug/L)	---	20*TVS	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
		<u>Nitrogen</u>	---	<u>TVS</u>	Uranium	varies*	varies*
		Phosphorus	---	0.083*TVS	Zinc	TVS	TVS
		Sulfate	---	---			
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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Yampa/Green River

33. All lakes and reservoirs tributary to Beaver Creek from the source to the confluence with the Green River. All lakes and reservoirs tributary to Vermillion Creek from the Colorado/Wyoming border to a point just below the confluence with Talamantes Creek.

COLCLY33	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation U		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.					Copper	TVS	TVS
*Uranium(chronic) = See 37.5(3) for details.					Iron	---	WS
			Inorganic (mg/L)				
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

White River

1. All tributaries to the White River, including all wetlands, which are within the boundaries of the Flat Tops Wilderness Area.								
COLCWH01	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT	acute	chronic		
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E		acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
					Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS/TVS(sc)	
		2. Deleted.						
		COLCWH02	Classifications	Physical and Biological			Metals (ug/L)	
		Designation			DM	MWAT	acute	chronic
Qualifiers:			acute	chronic				
Other:								
		Inorganic (mg/L)						
			acute	chronic				

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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

White River

3. Mainstem of the North Fork of the White River and mainstem of the White River from the Flat Tops Wilderness Area boundary to a point immediately above the confluence with Miller Creek.

COLCWH03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	CS-I	CS-I	Temperature °C	340	---	
	Recreation E	acute	chronic				
	Water Supply	---	6.0	D.O. (mg/L)	TVS	TVS	
Qualifiers:		---	7.0	D.O. (spawning)	5.0	---	
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		6.5 - 9.0	---	pH	---	TVS	
		---	450 TVS	chlorophyll a (mg/m ²)	50	---	
		---	126	E. coli (per 100 mL)	TVS	TVS	
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic		Iron	---	WS
		TVS	TVS	Ammonia	Iron(T)	---	1000
		---	0.75	Boron	Lead	TVS	TVS
		---	250	Chloride	Lead(T)	50	---
		0.019	0.011	Chlorine	Manganese	TVS	TVS/WS
		0.005	---	Cyanide	Mercury(T)	---	0.01
		10	---	Nitrate	Molybdenum(T)	---	150
		---	0.05	Nitrite	Nickel	TVS	TVS
		---	0.14 TVS	Phosphorus	Nickel(T)	---	100
		---	WS	Sulfate	Selenium	TVS	TVS
		---	0.002	Sulfide	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)

4a. All tributaries to the North Fork White River, including all wetlands, from the Flat Tops Wilderness Area boundary to the confluence with the South Fork White River, except for listings in Segment 1 and 4b.

COLCWH04A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	CS-I	CS-I	Temperature °C	340	---	
	Recreation E	acute	chronic				
	Water Supply	---	6.0	D.O. (mg/L)	TVS	TVS	
Qualifiers:		---	7.0	D.O. (spawning)	5.0	---	
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		6.5 - 9.0	---	pH	---	TVS	
		---	450 TVS	chlorophyll a (mg/m ²)	50	---	
		---	126	E. coli (per 100 mL)	TVS	TVS	
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic		Iron	---	WS
		TVS	TVS	Ammonia	Iron(T)	---	1000
		---	0.75	Boron	Lead	TVS	TVS
		---	250	Chloride	Lead(T)	50	---
		0.019	0.011	Chlorine	Manganese	TVS	TVS/WS
		0.005	---	Cyanide	Mercury(T)	---	0.01
		10	---	Nitrate	Molybdenum(T)	---	150
		---	0.05	Nitrite	Nickel	TVS	TVS
		---	0.14 TVS	Phosphorus	Nickel(T)	---	100
		---	WS	Sulfate	Selenium	TVS	TVS
		---	0.002	Sulfide	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

White River

4b. Lost Creek, including tributaries and wetlands, from the source to the confluence with the North Fork White River. Snell Creek, including all wetlands and tributaries, from the source to the confluence with the North Fork White River.

COLCWH04B	Classifications	Physical and Biological		Metals (ug/L)	
Designation		DM	MWAT	acute	chronic
OW	Agriculture				
	Aq Life Cold 1	Temperature °C	CS-I CS-I	Arsenic	340 ---
	Recreation E		acute chronic	Arsenic(T)	--- 0.02
	Water Supply	D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS
Qualifiers:		D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0 ---	Chromium III	--- TVS
		chlorophyll a (mg/m ²)	--- 150 TVS	Chromium III(T)	50 ---
		E. coli (per 100 mL)	--- 126	Chromium VI	TVS TVS
				Copper	TVS TVS
		Inorganic (mg/L)		Iron	--- WS
			acute chronic	Iron(T)	--- 1000
		Ammonia	TVS TVS	Lead	TVS TVS
		Boron	--- 0.75	Lead(T)	50 ---
		Chloride	--- 250	Manganese	TVS TVS/WS
		Chlorine	0.019 0.011	Mercury(T)	--- 0.01
		Cyanide	0.005 ---	Molybdenum(T)	--- 150
		Nitrate	10 ---	Nickel	TVS TVS
		Nitrite	--- 0.05	Nickel(T)	--- 100
		Phosphorus	--- 0.11 TVS	Selenium	TVS TVS
		Sulfate	--- WS	Silver	TVS TVS(tr)
		Sulfide	--- 0.002	Uranium	varies* varies*
				Zinc	TVS TVS

5. Deleted.

COLCWH05	Classifications	Physical and Biological		Metals (ug/L)	
Designation		DM	MWAT	acute	chronic
Qualifiers:		acute	chronic		
Other:					
		Inorganic (mg/L)			
		acute	chronic		

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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

White River

6. Mainstem of the South Fork White River, including all tributaries and wetlands, that is not within the boundary of the Flat Tops Wilderness to the confluence with the North Fork White River.						
COLCWH06	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
*Uranium(acute) = See 37.5(3) for details.		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50
*Uranium(chronic) = See 37.5(3) for details.		E. coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Phosphorus	---	0.14 TVS	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
				Uranium	varies*	varies*
				Zinc	TVS	TVS/TVS(sc)
7. Mainstem of the White River from a point immediately above the confluence with Miller Creek to a point immediately above the confluence with Piceance Creek.						
COLCWH07	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Recreation P	D.O. (mg/L)	---	6.0	Cadmium	TVS
	Water Supply	D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---
Other:		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50
Temporary Modification(s):		E. coli (per 100 mL)	3/2 - 11/30	---	Chromium VI	TVS
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	12/1 - 3/1	---	Copper	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)		Iron	---	WS
*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 37.5(4).		acute	chronic	Iron(T)	---	1000
*Phosphorus(chronic) = applies only above the facilities listed at 37.5(4).		Ammonia	TVS	TVS	Lead	TVS
*Uranium(acute) = See 37.5(3) for details.		Boron	---	0.75	Lead(T)	50
*Uranium(chronic) = See 37.5(3) for details.		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	0.14 TVS*	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

White River

8. All tributaries to the White River, including all wetlands, from the confluence of the North and South Forks to a point immediately above the confluence with Piceance Creek, which are within the boundaries of White River National Forest.

COLCWH08	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation P		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

9a. All tributaries to the White River, including all wetlands, from the confluence of the North and South Forks to a point immediately above the confluence with Flag Creek, which are not within the boundary of National Forest lands, except for listings in Segments 9c, 9d and 10b.

COLCWH09A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation P		acute	chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

White River

9b. All tributaries to the White River, including wetlands, from a point immediately above the confluence with Flag Creek, to a point immediately above the confluence with Piceance Creek, which are not within the boundary of National Forest lands, except for listings in segments 9c and 9d.

COLCWH09B Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	Arsenic	340
	Recreation P			Arsenic(T)	---
	Water Supply			Arsenic(T)	0.02-10 ^A
Qualifiers:				Cadmium	TVS
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		D.O. (mg/L)	---	Cadmium(T)	5.0
		D.O. (spawning)	---	Chromium III	---
		pH	6.5 - 9.0	Chromium III(T)	TVS
		chlorophyll a (mg/m ²)	---	Chromium VI	50
		E. coli (per 100 mL)	---	Copper	TVS
			205	Iron	TVS
				Iron(T)	---
				Lead	1000
				Lead(T)	TVS
				Manganese	TVS
				Mercury(T)	TVS/WS
				Molybdenum(T)	---
				Nickel	0.01
				Nickel(T)	---
				Selenium	100
				Silver	TVS
				Uranium	TVS(tr)
				Zinc	varies*
					varies*
					TVS

9c. Mainstems of Flag Creek, including all tributaries and wetlands, from the source to a point just below the confluence with the East Fork of Flag Creek.

COLCWH09C Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-I	Arsenic	340
	Recreation E			Arsenic(T)	---
	Water Supply			Arsenic(T)	0.02-10 ^A
Qualifiers:		D.O. (mg/L)	---	Cadmium	TVS
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		D.O. (spawning)	---	Cadmium(T)	5.0
		pH	6.5 - 9.0	Chromium III	---
		chlorophyll a (mg/m ²)	---	Chromium III(T)	TVS
		E. coli (per 100 mL)	---	Chromium VI	50
			126	Chromium VI	---
				Copper	TVS
				Iron	TVS
				Iron(T)	TVS
				Lead	WS
				Lead(T)	1000
				Manganese	TVS
				Mercury(T)	TVS
				Molybdenum(T)	TVS/WS
				Nickel	---
				Nickel(T)	0.01
				Selenium	---
				Silver	150
				Uranium	TVS
				Zinc	TVS
					varies*
					varies*
					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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

White River

9d. Sulphur Creek, including all tributaries and wetlands, from the source to the confluence with the White River. Flag Creek, including all tributaries and wetlands, from a point just below the confluence with the East Fork of Flag Creek to the confluence with the White River.							
COLCWH09D	Classifications		Physical and Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Water + Fish Standards Apply		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024					Iron	---	WS
*Uranium(acute) = See 37.5(3) for details.					Iron(T)	---	1000
*Uranium(chronic) = See 37.5(3) for details.					Lead	TVS	TVS
		Ammonia	TVS	TVS	Lead(T)	50	---
		Boron	---	0.75	Manganese	TVS	TVS/WS
		Chloride	---	250	Mercury(T)	---	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	10	---	Nickel(T)	---	100
		Nitrite	---	0.05	Selenium	TVS	TVS
		Phosphorus	---	0.11 TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS
10a. All lakes and reservoirs tributary to the White River, from the confluence of the North and South Forks of the White River to a point immediately above the confluence of the White River and Piceance Creek, except listings in Segments 11, 25 and 27.							
COLCWH10A	Classifications		Physical and Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		chlorophyll a (ug/L)	---	8 TVS	Chromium III(T)	50	---
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.					Copper	TVS	TVS
*Uranium(chronic) = See 37.5(3) for details.					Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	0.025 TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	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 37.6 for further details on applied standards.

White River

10b. Mainstem of Big Beaver Creek, Miller Creek, and North Elk Creek, including their tributaries and wetlands, from their boundary with National Forest lands to their confluences with the White River. Mainstem of Coal Creek, including all tributaries and wetlands, from the source to the confluence with the White River.

COLCWH10B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation P	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

11. Rio Blanco Lake and Taylor Draw Reservoir (a.k.a. Kenney Reservoir).

COLCWH11	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
	DUWS*	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Qualifiers:		chlorophyll a (ug/L)	---	20*DUWS	Chromium III	---	TVS
Other:		chlorophyll a (ug/L)	---	TVS	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	TVSWS
		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	10	---	Molybdenum(T)	---	150
		Nitrite	---	0.05	Nickel	TVS	TVS
		Nitrogen	---	TVS	Nickel(T)	---	100
		Phosphorus	---	0.083*TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.

T = total recoverable

t = total

```
tr = trout
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sc = sculpin

D.O. = dissolved oxygen

DM = daily maximum

MWAT = maximum weekly average temperature

See 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

White River

12. Mainstem of the White River from a point immediately above the confluence with Piceance Creek to a point immediately above the confluence with Douglas Creek.							
COLCWH12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS	TVS	
*Uranium(acute) = See 37.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.		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)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
13a. All tributaries to the White River, including all wetlands, from a point immediately below the confluence with Piceance Creek to a point immediately above the confluence with Douglas Creek, except for listings in Segments 13b through 20.							
COLCWH13A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Recreation P	acute	chronic	Arsenic(T)	---	100	
Qualifiers:		D.O. (mg/L)	---	5.0	Beryllium(T)	---	100
Other:		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
		chlorophyll a (mg/m²)	---	TVS	Chromium III	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.		E. coli (per 100 mL)	---	205	Chromium III(T)	---	100
*Uranium(chronic) = See 37.5(3) for details.		Inorganic (mg/L)			Chromium VI	TVS	TVS
		acute	chronic	Copper	TVS	TVS	
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	---	Manganese	TVS	TVS
		Chlorine	0.019	0.011	Manganese(T)	---	200
		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	100	---	Molybdenum(T)	---	150
		Nitrite	---	0.05	Nickel	TVS	TVS
		Phosphorus	---	TVS	Selenium	TVS	TVS
		Sulfate	---	---	Silver	TVS	TVS
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

13a. All tributaries to the White River, including all wetlands, from a point immediately below the confluence with Piceance Creek to a point immediately above the confluence with Douglas Creek, except for listings in Segments 13b through 20.							
COLCWH13A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Recreation P		acute	chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Beryllium(T)	---	100
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III	TVS	TVS
		E. coli (per 100 mL)	---	205	Chromium III(T)	---	100
		Inorganic (mg/L)			Chromium VI	TVS	TVS
			acute	chronic	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	---	Manganese	TVS	TVS
		Chlorine	0.019	0.011	Manganese(T)	---	200
		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	100	---	Molybdenum(T)	---	150
		Nitrite	---	0.05	Nickel	TVS	TVS
		Phosphorus	---	0.47 TVS	Selenium	TVS	TVS
		Sulfate	---	---	Silver	TVS	TVS
		Sulfide	---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

White River

13b. Mainstem of Yellow Creek including all wetlands from the source to immediately below the confluence with Barcus Creek. All tributaries to Yellow Creek from the source to the White River, including wetlands.							
COLCWH13B		Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Recreation P	acute	chronic	Arsenic(T)	---	0.02-10 ^A	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: *chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 37.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 37.5(4). *Selenium(chronic) = 5.7 ug/L for Corral Gulch. 6.0 ug/L for Greasewood Creek. 6.9 ug/L for Yellow Creek. 7.9 ug/L for Duck Creek. TVS for all other tributaries. See assessment locations at 37.6(4) *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		chlorophyll a (mg/m ²)	---	150*TVS	Chromium III	---	TVS
		E. coli (per 100 mL)	---	205	Chromium III(T)	50	---
		Inorganic (mg/L)			Chromium VI	TVS	TVS
		acute	chronic	Copper	TVS	TVS	
		Ammonia	TVS	TVS	Iron	---	WS
		Boron	---	5.0	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)	---	150
		Phosphorus	---	0.47TVS*	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	varies*
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
13c. Mainstem of Yellow Creek, including all wetlands from immediately below the confluence with Barcus Creek to the confluence with the White River.							
COLCWH13C		Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation P	acute	chronic	Arsenic(T)	---	7.6	
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Fish Ingestion Standards Apply		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
Other: *Iron(T)(chronic) = See assessment location at 37.6(4) *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		chlorophyll a (mg/m ²)	---	150TVS	Chromium III(T)	---	100
		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron(T)	---	1625*	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	5.0	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	---	0.47TVS	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

White River

13d. Violet Springs Ponds (39.999928, -108.350489).						
COLCWH13D	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 2 Recreation P	Temperature °C	CL CL		Arsenic	340 ---
Qualifiers:		acute	chronic		Arsenic(T)	--- 100
Other:		D.O. (mg/L)	--- 6.0		Cadmium	TVS TVS
<p>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Uranium(acute) = See 37.5(3) for details.</p> <p>*Uranium(chronic) = See 37.5(3) for details.</p>		pH	6.5 - 9.0 ---		Chromium III	TVS TVS
		chlorophyll a (ug/L)	--- 8*		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	--- 5.0		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	--- 0.025*		Uranium	varies* varies*
		Sulfate	--- ---		Zinc	TVS TVS
		Sulfide	--- 0.002			

14a. Mainstem of Piceance Creek from the source to a point just below the confluence with Hunter Creek.						
COLCWH14A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1 Recreation P Water Supply	Temperature °C	CS-I CS-I		Arsenic	340 ---
Qualifiers:		acute	chronic		Arsenic(T)	--- 0.02
Other:		D.O. (mg/L)	--- 6.0		Cadmium	TVS TVS
<p>Temporary Modification(s):</p> <p>Arsenic(chronic) = hybrid</p> <p>Expiration Date of 12/31/2024</p> <p>*Uranium(acute) = See 37.5(3) for details.</p> <p>*Uranium(chronic) = See 37.5(3) for details.</p>		D.O. (spawning)	--- 7.0		Cadmium(T)	5.0 ---
		pH	6.5 - 9.0 ---		Chromium III	--- TVS
		chlorophyll a (mg/m ²)	--- 450TVS		Chromium III(T)	50 ---
		E. coli (per 100 mL)	--- 205		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	--- 0.14TVS		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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

White River

14b. Mainstem of Piceance Creek from a point just below the confluence with Hunter Creek to a point just below the confluence with Ryan Gulch.						
COLCWH14B	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1 Recreation P	Temperature °C	CS-II CS-II	Arsenic	340 ---	
Qualifiers: Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		acute	chronic	Arsenic(T)	---	
	D.O. (mg/L)	---	6.0	Cadmium	TVS	
	D.O. (spawning)	---	7.0	Chromium III	TVS	
	pH	6.5 - 9.0	---	Chromium III(T)	---	
	chlorophyll a (mg/m²)	---	150TVS	Chromium VI	TVS	
	E. coli (per 100 mL)	---	205	Copper	TVS	
				Iron(T)	---	
	Inorganic (mg/L)			Lead	TVS	
	acute	chronic	Manganese	TVS		
	Ammonia	TVS	TVS	Mercury(T)	---	
	Boron	---	0.75	Molybdenum(T)	---	
	Chloride	---	---	Nickel	TVS	
	Chlorine	0.019	0.011	Selenium	TVS	
	Cyanide	0.005	---	Silver	TVS	
	Nitrate	100	---	Uranium	varies*	
	Nitrite	---	0.05	Zinc	TVS	
	Phosphorus	---	0.14TVS			
Sulfate	---	---				
Sulfide	---	0.002				
15. Mainstem of Piceance Creek from a point just below the confluence with Ryan Gulch to the confluence with the White River. The Dry Fork of Piceance Creek, including all tributaries and wetlands, from a point just below the confluence with Little Reigan Gulch to the confluence with Piceance Creek, except for listings in Segment 18.						
COLCWH15	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 2 Recreation P	Temperature °C	WS-II WS-II	Arsenic	340 ---	
Qualifiers: Fish Ingestion Standards Apply Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		acute	chronic	Arsenic(T)	---	
	D.O. (mg/L)	---	5.0	Cadmium	TVS	
	pH	6.5 - 9.0	---	Chromium III	TVS	
	chlorophyll a (mg/m²)	---	150TVS	Chromium III(T)	---	
	E. coli (per 100 mL)	---	205	Chromium VI	TVS	
	Inorganic (mg/L)			Copper	TVS	
	acute	chronic	Iron(T)	---		
	Ammonia	TVS	TVS	Lead	TVS	
	Boron	---	0.75	Manganese	TVS	
	Chloride	---	250	Mercury(T)	---	
	Chlorine	0.019	0.011	Molybdenum(T)	---	
	Cyanide	0.005	---	Nickel	TVS	
	Nitrate	100	---	Selenium	TVS	
	Nitrite	---	0.05	Silver	TVS	
	Phosphorus	---	0.14TVS	Uranium	varies*	
	Sulfate	---	---	Zinc	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

White River

16a. All tributaries to Piceance Creek, including all wetlands, from the source to a point immediately below the confluence with Dry Thirteenmile Creek.							
COLCWH16A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Recreation P Water Supply Agriculture Aq Life Warm 2	DM	MWAT	acute	chronic		
Reviewable		Temperature °C	WS-III	WS-III	Arsenic	340	---
		acute	chronic	Arsenic(T)	---	0.02-10 ^A	
		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	150 TVS	Chromium III	---	TVS
*Uranium(acute) = See 37.5(3) for details.		E. coli (per 100 mL)	---	205	Chromium III(T)	50	---
*Uranium(chronic) = See 37.5(3) for details.		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)	---	150
		Phosphorus	---	0.44 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

16b. All tributaries to Piceance Creek, including all wetlands, from a point immediately below the confluence with Dry Thirteenmile Creek to the confluence with the White River, except for listings in Segments 15, 17, 18a, 18b, 19 and 20.							
COLCWH16B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Warm 2 Recreation P	DM	MWAT	acute	chronic		
Reviewable		Temperature °C	WS-III	WS-III	Arsenic	340	---
		acute	chronic	Arsenic(T)	---	100	
		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
Other:		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	---	100
*Uranium(acute) = See 37.5(3) for details.		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
*Uranium(chronic) = See 37.5(3) for details.		Inorganic (mg/L)		Copper	TVS	TVS	
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Manganese	TVS	TVS
		Chloride	---	250	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	---	0.44 TVS	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

16b. All tributaries to Piceance Creek, including all wetlands, from a point immediately below the confluence with Dry Thirteenmile Creek to the confluence with the White River, except for listings in Segments 15, 17, 18a, 18b, 19 and 20.

COLCWH16B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
	Reviewable	Aq Life Warm 2 Recreation P	Temperature °C	WS-III WS-III	Arsenic	340	---
Qualifiers:		acute	chronic	Arsenic(T)	---	100	
		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other:		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	---	100
*Uranium(acute) = See 37.5(3) for details.		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
*Uranium(chronic) = See 37.5(3) for details.		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Manganese	TVS	TVS
		Chloride	---	250	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	---	0.44 TVS	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

White River

17. Stewart Gulch from the sources of the East, Middle, and West Forks to the confluence with Piceance Creek.							
COLCWH17	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation P		acute	chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Fish Ingestion Standards Apply		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m²)	---	TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	205	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
			acute	chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	TVS	TVS
		Phosphorus	---	TVS			
		Sulfate	---	---			
		Sulfide	---	0.002			
		18a. Willow and Hunter Creeks, including all tributaries and wetlands, from their sources to their confluences with Piceance Creek.					
COLCWH18A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation P		acute	chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m²)	---	TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	205	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
			acute	chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	---	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	TVS	TVS
		Phosphorus	---	TVS			
		Sulfate	---	---			
		Sulfide	---	0.002			

18a. Willow and Hunter Creeks, including all tributaries and wetlands, from their sources to their confluences with Piceance Creek.							
COLCWH18A		Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation P		acute	chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m ²)	---	150 TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	205	Copper	TVS	TVS
					Iron(T)	---	1000
					Lead	TVS	TVS
					Manganese	TVS	TVS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Selenium	TVS	TVS
					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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

White River

18b. Mainstem of the Dry Fork of Piceance Creek, including all tributaries and wetlands, from the source to a point just below the confluence with Little Reigan Gulch. Box D Gulch from its source to the confluence with the Dry Fork of Piceance Creek.

COLCWH18B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation P	acute	chronic		Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		chlorophyll a (mg/m ²)	---	450 TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	205	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	---	0.44 TVS	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

19. Mainstem of Fawn Creek from the source to the confluence with Black Sulphur Creek.

COLCWH19	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation P	acute	chronic		Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
*Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m ²)	---	450 TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	205	Copper	TVS	TVS
		Inorganic (mg/L)			Iron(T)	---	1000
		acute	chronic		Lead	TVS	TVS
		Ammonia	TVS	TVS	Manganese	TVS	TVS
		Boron	---	0.75	Mercury(T)	---	0.01
		Chloride	---	---	Molybdenum(T)	---	150
		Chlorine	0.019	0.011	Nickel	TVS	TVS
		Cyanide	0.005	---	Selenium	TVS	TVS
		Nitrate	100	---	Silver	TVS	TVS(tr)
		Nitrite	---	0.05	Uranium	varies*	varies*
		Phosphorus	---	0.44 TVS	Zinc	TVS	TVS
		Sulfate	---	---			
		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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

White River

20. Mainstem of Black Sulphur Creek, including all tributaries and wetlands, from the source to the confluence with Piceance Creek, except for the listing in Segment 19.							
COLCWH20	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation P	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
21. Mainstem of the White River from a point immediately above the confluence with Douglas Creek to the Colorado/Utah border.							
COLCWH21	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	100
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS	TVS	
*Uranium(acute) = See 37.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.		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)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

White River

22. All tributaries to the White River, including all wetlands, from a point immediately above the confluence with Douglas Creek to the Colorado/Utah border, except for specific listings in Segment 23.							
COLCWH22	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Recreation P	acute	chronic	Arsenic(T)	---	100	
Qualifiers:		D.O. (mg/L)	---	5.0	Beryllium(T)	---	100
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
		chlorophyll a (mg/m²)	---	150TVS	Chromium III	TVS	TVS
		E. coli (per 100 mL)	---	205	Chromium III(T)	---	100
		Inorganic (mg/L)		Chromium VI	TVS	TVS	
		acute	chronic	Copper	TVS	TVS	
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	---	Manganese	TVS	TVS
		Chlorine	0.019	0.011	Manganese(T)	---	200
		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	100	---	Molybdenum(T)	---	150
		Nitrite	---	0.05	Nickel	TVS	TVS
		Phosphorus	---	0.47TVS	Selenium	TVS	TVS
		Sulfate	---	---	Silver	TVS	TVS
		Sulfide	---	0.002	Uranium	varies*	varies*
				Zinc	TVS	TVS	
23. Mainstems of East Douglas Creek and West Douglas Creek, including all tributaries and wetlands, from their sources to their confluence.							
COLCWH23	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	150TVS	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	---	0.44TVS	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

White River

24. All lakes and reservoirs tributary to the White River, which are within the boundaries of the Flat Tops Wilderness Area, including Trappers Lake.							
COLCWH24	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
OW	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
Sulfide	---	0.002	Zinc	TVS	TVS		
25. Lake Avery (a.k.a Big Beaver Reservoir).							
COLCWH25	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies* ^B	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details. *Temperature = DM=CLL and MWAT=CLL from 1/1-3/31 DM=CLL and MWAT=20.7 from 4/1-12/31		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
Sulfide	---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

White River

26. All lakes and reservoirs tributary to the North and South Forks of the White River, from the Flat Tops Wilderness Area boundary to the confluence with the North and South Forks of the White River.

COLCWH26	Classifications	Physical and Biological		Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation U	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:	<div><div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div><div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div><div>*Uranium(acute) = See 37.5(3) for details.</div><div>*Uranium(chronic) = See 37.5(3) for details.</div></div>	chlorophyll a (ug/L)	---	8*TVS	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
		Nitrogen	---	TVS	Nickel(T)	---	100
		Phosphorus	---	0.025*TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

27. All lakes and reservoirs tributary to the White River, from a point immediately above the confluence with Piceance Creek to the Colorado/Utah border, except for listings in segments 11 and 13d.

COLCWH27	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation U		acute	chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: <i>*Chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</i> <i>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</i> <i>*Uranium(acute) = See 37.5(3) for details.</i> <i>*Uranium(chronic) = See 37.5(3) for details.</i>		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (ug/L)	---	20* TVS	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
		<u>Nitrogen</u>	--- -	<u>TVS</u>	Uranium	varies*	varies*
		Phosphorus	---	0.083* TVS	Zinc	TVS	TVS
		Sulfate	---	---			
		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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Colorado River

1. Mainstem of the Colorado River from the confluence with the Roaring Fork River to immediately below the confluence with Rifle Creek.							
COLCLC01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.		acute	chronic	Iron(T)	---	1000	
*Temperature =		Ammonia	TVS	TVS	Lead	TVS	TVS
See 37.6(4) for temperature standards.		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
2a. Mainstem of the Colorado River from immediately below the confluence with Rifle Creek to immediately above the confluence of Rapid Creek.							
COLCLC02A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS	TVS	
*Uranium(acute) = See 37.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.		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)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Colorado River

2b. Mainstem of the Colorado River from a point immediately above the confluence with Rapid Creek to immediately above the confluence of the Gunnison River.							
COLCLC02B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS	TVS	
*Uranium(acute) = See 37.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.		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)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
3. Mainstem of the Colorado River from immediately above the confluence of the Gunnison River to the Colorado-Utah state line.							
COLCLC03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	7.6	
		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
Other:		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	---	100
*Uranium(acute) = See 37.5(3) for details.		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(chronic) = See 37.5(3) for details.		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	---	---	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Colorado River

4a. All tributaries, including wetlands, to the Colorado River from the confluence with the Roaring Fork River to below the confluence with Parachute Creek except for listings in Segments 4b, 4c, 4d, 4e, 5, 6, 7a, 7b, 8, 9a, 9c, 10, 11a – c.

COLCLC04A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation N	acute		chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	---	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	630	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	---	0.14 TVS	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

4b. South Canyon Hot Springs (39.552964, -107.414232).

COLCLC04B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Aq Life Warm 2	DM		MWAT	acute		chronic
Reviewable	Recreation E				Arsenic	340	---
Qualifiers:		acute		chronic	Arsenic(T)	---	100
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m ²)	---	150 TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
		Inorganic (mg/L)			Iron(T)	---	1000
		acute		chronic	Lead	TVS	TVS
		Ammonia	TVS	TVS	Manganese	TVS	TVS
		Boron	---	---	Mercury(T)	---	0.01
		Chloride	---	---	Molybdenum(T)	---	---
		Chlorine	0.019	0.011	Nickel	TVS	TVS
		Cyanide	0.005	---	Selenium	TVS	TVS
		Nitrate	---	---	Silver	TVS	TVS
		Nitrite	---	---	Uranium	varies*	varies*
		Phosphorus	---	0.17 TVS	Zinc	TVS	TVS
		Sulfate	---	---			
		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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Colorado River

4c. The mainstem of South Canyon Creek from the South Canyon Hot Springs to the confluence with the Colorado River.							
COLCLC04C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	150 TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS	TVS	
*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 37.5(4). *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		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)	---	150
		Phosphorus	---	0.17 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
		Silver	TVS	TVS			
		Uranium	varies*	varies*			
		Zinc	TVS	TVS			
4d. The mainstem of Dry Hollow Creek, including all tributaries and wetlands, from the source to the confluence with the Colorado River.							
COLCLC04D	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation P	acute	chronic	Arsenic(T)	---	0.02-10 ^A	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	150 TVS	Chromium III	---	TVS
*Uranium(acute) = See 37.5(3) for details.		E. coli (per 100 mL)	---	205	Chromium III(T)	50	---
*Uranium(chronic) = See 37.5(3) for details.		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)	---	150
		Phosphorus	---	0.14 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Colorado River

4e. Mainstem of Dry Creek, including all tributaries and wetlands, from the source to immediately above the Last Chance Ditch.							
COLCLC04E	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
UP	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation N	acute	chronic		Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: *Phosphorus(chronic) = applies only above the facilities listed at 37.5(4). *Iron(T)(chronic) = 3500(T) ug/L on unnamed tributary and 5900(T) ug/L on Dry Creek, see section 37.6(4)(c) for iron assessment locations. *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m²)	---	---	Chromium III(T)	---	100
		E. coli (per 100 mL)	---	630	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	---	0.44TVS*	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
Sulfide	---	0.002					

4f. Mainstem of Dry Creek including all tributaries and wetlands from a point immediately above the Last Chance Ditch to the confluence with the Colorado River.							
COLCLC04F	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation N	acute	chronic		Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other: *Phosphorus(chronic) = applies only above the facilities listed at 37.5(4). *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m²)	---	---	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	---	0.44TVS*	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
Sulfide	---	0.002					

4f. Mainstem of Dry Creek including all tributaries and wetlands from a point immediately above the Last Chance Ditch to the confluence with the Colorado River.							
COLCLC04F	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation N		acute	chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other: *Phosphorus(chronic) = applies only above the facilities listed at 37.5(4). *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m²)	---	---	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	---	0.44TVS*	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Colorado River

5. All tributaries to the Colorado River, including wetlands, which are within the boundaries of White River National Forest, except for listings in Segments 9a, 9c, and 12c.							
COLCLC05	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation P	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
6. Mainstem of Oasis Creek including all tributaries and wetlands from the boundary of White River National Forest to the confluence with the Colorado River.							
COLCLC06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation P	acute	chronic	Arsenic(T)	---	0.02-10	^A
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 37.5(3) for details.		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
*Uranium(chronic) = See 37.5(3) for details.		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Colorado River

7a. Mainstem of Mitchell, Canyon, Elk, Garfield, Beaver, and Cache Creeks, including all tributaries and wetlands, from the boundary of the White River National Forest to their confluences with the Colorado River.							
COLCLC07A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450*TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 37.5(4).		Inorganic (mg/L)			Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 37.5(4).		acute	chronic	Iron(T)	---	1000	
*Uranium(acute) = See 37.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 37.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

7b. Mainstem of Divide Creek, including all tributaries and wetlands, from the boundary of the White River National Forest to the confluence with the Colorado River.							
COLCLC07B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

7b. Mainstem of Divide Creek, including all tributaries and wetlands, from the boundary of the White River National Forest to the confluence with the Colorado River.							
COLCLC07B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Colorado River

8. Mainstem of Northwater and Trapper Creeks, including all tributaries and wetlands, from their sources to the confluence with the East Middle Fork of Parachute Creek. East Middle Fork of Parachute Creek, including all tributaries and wetlands, from the source to the confluence with the Middle Fork of Parachute Creek.

COLCLC08	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation P		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

9a. Middle Rifle Creek, including all tributaries and wetlands, from its source to the confluence with West Rifle Creek. East Rifle Creek, including all tributaries and wetlands, from the source to the boundary of the White River National Forest.

COLCLC09A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Water Supply		acute	chronic	Arsenic(T)	---	0.02
	Recreation E	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Colorado River

9b. All lakes and reservoirs tributary to the Colorado River from the confluence of the Colorado and the Roaring Fork River to a point immediately below the confluence of the Colorado River and Parachute Creek, and all lakes and reservoirs within the White River National Forest or the Grand Mesa National Forest, except for the listings in segment 20.

COLCLC09B	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	CL	CL	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---
	Water Supply	D.O. (mg/L)	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	TVS
		chlorophyll a (ug/L)	---	8*TVS	---
		E. coli (per 100 mL)	126	Chromium III(T)	50
				Chromium VI	TVS
				Copper	TVS
				Iron	---
				Iron(T)	1000
				Lead	TVS
				Lead(T)	50
				Manganese	TVS
				Mercury(T)	---
				Molybdenum(T)	---
				Nickel	TVS
				Nickel(T)	---
				Selenium	TVS
				Silver	TVS(tr)
				Uranium	varies*
				Zinc	TVS

9c. Battlement Creek, including all tributaries and wetlands, from the source to the most downstream boundary of BLM lands.

COLCLC09C	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
OW	Aq Life Cold 1	CS-I	CS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---
	Water Supply	D.O. (mg/L)	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	TVS
		chlorophyll a (mg/m ²)	---	450TVS	---
		E. coli (per 100 mL)	126	Chromium III(T)	50
				Chromium VI	TVS
				Copper	TVS
				Iron	---
				Iron(T)	1000
				Lead	TVS
				Lead(T)	50
				Manganese	TVS
				Mercury(T)	---
				Molybdenum(T)	---
				Nickel	TVS
				Nickel(T)	---
				Selenium	TVS
				Silver	TVS
				Uranium	varies*
				Zinc	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Colorado River

9d. Battlement Creek, including all tributaries and wetlands, from the most downstream boundary of BLM lands to the confluence with the Colorado River.							
COLCLC09D	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
10. West Rifle Creek, including all tributaries and wetlands, from the source to Rifle Gap Reservoir. East Rifle Creek, including all tributaries and wetlands, from the White River National Forest boundary to Rifle Gap Reservoir. Rifle Creek, including all tributaries and wetlands, from Rifle Gap Reservoir to the confluence with the Colorado River.							
COLCLC10	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Colorado River

11a. Middle Fork Parachute Creek, including tributaries and wetlands, from the source to the confluence with East Fork Parachute Creek. West Fork Parachute Creek and East Fork Parachute Creek, including tributaries and wetlands, from the sources to their confluence into Parachute Creek (39.54898, -108.121829).

COLCLC11A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation P	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

11b. All tributaries to Parachute Creek on the east side of Parachute Creek from the confluence of the East and West Forks of Parachute Creek to the confluence with the Colorado River.

COLCLC11B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation N		acute	chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Beryllium(T)	---	100
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
		chlorophyll a (mg/m²)	---	---	Chromium III	TVS	TVS
		E. coli (per 100 mL)	---	630	Chromium III(T)	---	100
		Inorganic (mg/L)			Chromium VI	TVS	TVS
			acute	chronic	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	---	Manganese	TVS	TVS
		Chlorine	0.019	0.011	Manganese(T)	---	200
		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	100	---	Molybdenum(T)	---	150
		Nitrite	---	0.05	Nickel	TVS	TVS
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	---	Silver	TVS	TVS
		Sulfide	---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Colorado River

11c. Mainstem of Parachute Creek from the confluence of the West and East Forks to the confluence with the Colorado River. All tributaries and wetlands to Parachute Creek on the west side of Parachute Creek from the confluence of the East and West Forks to the confluence with the Colorado River.

COLCLC11C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation P	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

12a. All tributaries to the Colorado River on the north side of the Colorado River from below Cottonwood Creek to the confluence with Parachute Creek except for listings in segments 9c and 9d.

COLCLC12A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation N	acute		chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m²)	---	---	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	---	0.44TVS	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Colorado River

12b. All tributaries and wetlands to the Colorado River from a point immediately below the confluence of Parachute Creek to a point immediately below the confluence with Roan Creek, except for listings in segments 5, 12c, 14a, 14b and 14c.

COLCLC12B	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute		chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---	
	Recreation P	acute		chronic	Arsenic(T)	---	0.02-10 ^A	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
				acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	

12c. Wallace Creek, including all tributaries and wetlands, from the source to the confluence with the Colorado River.

COLCLC12C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation P	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Colorado River

13a. All tributaries to the Colorado River including wetlands, from a point immediately below the confluence of Roan Creek to the Colorado/Utah border, except for listings in Segments 13b through 19.

COLCLC13A	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340
	Water Supply	acute	chronic	Arsenic(T)	---	0.02-10 ^A
	Recreation P	D.O. (mg/L)	---	5.0	Cadmium	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		chlorophyll a (mg/m ²)	---	150TVS	Chromium III	---
		E. coli (per 100 mL)	---	205	Chromium III(T)	50
		Inorganic (mg/L)		Chromium VI	TVS	TVS
		acute	chronic	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---
		Boron	---	0.75	Iron(T)	---
		Chloride	---	250	Lead	TVS
		Chlorine	0.019	0.011	Lead(T)	50
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	---	0.05	Molybdenum(T)	---
		Phosphorus	---	0.17TVS	Nickel	TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	TVS

13b. All tributaries to the Colorado River, including wetlands, from the Government Highline Canal Diversion to a point immediately below Salt Creek, and downgradient from the Government Highline Canal, the Orchard Mesa Canal No. 2, Orchard Mesa Drain, Stub Ditch and the northeast Colorado National Monument boundary.

COLCLC13B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	7.6
		D.O. (mg/L)	---	5.0	Cadmium	TVS
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	TVS
Fish Ingestion Standards Apply Other: *chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 37.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 37.5(4). *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		chlorophyll a (mg/m ²)	---	150*TVS	Chromium III(T)	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Manganese	TVS
		Chloride	---	---	Mercury(T)	---
		Chlorine	0.019	0.011	Molybdenum(T)	---
		Cyanide	0.005	---	Nickel	TVS
		Nitrate	100	---	Selenium	TVS
		Nitrite	---	0.05	Silver	TVS
		Phosphorus	---	0.17TVS*	Uranium	varies*
		Sulfate	---	---	Zinc	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Colorado River

13c. Walker Wildlife Area Ponds.							
COLCLC13C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		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
		chlorophyll a (ug/L)	---	20*TVS	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
		Nitrogen	---	TVS	Uranium	varies*	varies*
		Phosphorus	---	0.083*TVS	Zinc	TVS	TVS
		Sulfate	---	---			
		Sulfide	---	0.002			
13d. Deleted							
COLCLC13D	Classifications	Physical and Biological			Metals (ug/L)		
Designation			DM	MWAT		acute	chronic
Qualifiers:			acute	chronic			
Other:							
		Inorganic (mg/L)					
			acute	chronic			

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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Colorado River

13e. All tributaries to the Colorado River, from Lewis Wash to the West Salt Creek drainage, from an elevation of 5,200 feet to the Government Highline Canal, excluding the mainstems of Big Salt Wash, East Salt Creek and West Salt Creek.

COLCLC13E	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 2	Temperature °C		WS-III	WS-III		
	Recreation P	acute		chronic			
Qualifiers:		D.O. (mg/L)	---	5.0	Arsenic(T)		---
Other:		pH	6.5 - 9.0	---	Beryllium(T)		---
*Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		chlorophyll a (mg/m ²)	---	150TVS	Cadmium(T)		---
		E. coli (per 100 mL)	---	205	Chromium III(T)		---
		Inorganic (mg/L)			Chromium VI(T)		---
		acute		chronic	Copper(T)		---
		Ammonia	---	---	Iron		---
		Boron	---	0.75	Lead(T)		---
		Chloride	---	---	Manganese(T)		---
		Chlorine	---	---	Mercury(T)		---
		Cyanide	0.2	---	Molybdenum(T)		---
		Nitrate	100	---	Nickel(T)		---
		Nitrite	10	---	Selenium(T)		---
		Phosphorus	---	0.17TVS	Silver		---
		Sulfate	---	---	Uranium		varies*
		Sulfide	---	---	Zinc(T)		---
							2000

13f. Asbury Creek and Sand Wash from their sources to their confluences with the Colorado River.

COLCLC13F	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 2	Temperature °C		WS-III	WS-III		
	Recreation P	acute		chronic			
	Water Supply	D.O. (mg/L)	---	5.0	Arsenic		340
Qualifiers:		pH	6.5 - 9.0	---	Arsenic(T)		---
Other:		chlorophyll a (mg/m ²)	---	150TVS	Cadmium		TVS
*Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		E. coli (per 100 mL)	---	205	Cadmium(T)		5.0
		Inorganic (mg/L)			Chromium III		---
		acute		chronic	Chromium III(T)		---
		Ammonia	TVS	TVS	Chromium VI		TVS
		Boron	---	0.75	Copper		TVS
		Chloride	---	250	Iron		---
		Chlorine	0.019	0.011	Iron(T)		---
		Cyanide	0.005	---	Lead		TVS
		Nitrate	10	---	Lead(T)		50
		Nitrite	---	0.05	Manganese		TVS
		Phosphorus	---	0.17TVS	Mercury(T)		---
		Sulfate	---	WS	Molybdenum(T)		---
		Sulfide	---	0.05	Nickel		TVS
					Nickel(T)		---
					Selenium		TVS
					Silver		TVS
					Uranium		varies*
					Zinc		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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Colorado River

14a. Mainstem of Roan Creek, including all wetlands and tributaries, from its source to a point immediately above the confluence with Clear Creek, except for the listing in segment 14b. Clear Creek, including all tributaries and wetlands, from the source to a point immediately below the confluence with Tom Creek.

COLCLC14A	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation P	acute		chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
				acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.11 TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	

14b. Clear Creek, including all tributaries and wetlands, from a point immediately below the confluence with Tom Creek to the confluence with Roan Creek. Roan Creek, including all tributaries and wetlands, from a point immediately above the confluence with Clear Creek to a point immediately below the confluence with Kimball Creek.

COLCLC14B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Colorado River

14c. Mainstem of Roan Creek, including all tributaries and wetlands, from a point immediately below the confluence with Kimball Creek to the confluence with the Colorado River.							
COLCLC14C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Recreation E		DM	MWAT		acute	chronic
Reviewable	Water Supply	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Agriculture		acute	chronic	Arsenic(T)	---	0.02
	Aq Life Warm 1	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	150 TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024			acute	chronic	Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.		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)	---	150
		Phosphorus	---	0.47 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
15a. Mainstem of Plateau Creek from its source to the inlet of Vega Reservoir. All tributaries and wetlands to Plateau Creek from its source to a point immediately above the confluence with Buzzard Creek. Kimball Creek, Grove Creek, Big Creek, Cottonwood Creek, Bull Creek, Spring Creek, Coon Creek, and Mesa Creek, including all wetlands and tributaries, from their sources to their confluences with Plateau Creek. The mainstem of Buzzard Creek, including all tributaries and wetlands, within the Grand Mesa National Forest.							
COLCLC15A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 *TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Copper	TVS	TVS
*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 37.5(4).			acute	chronic	Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 37.5(4).		Ammonia	TVS	TVS	Iron(T)	---	1000
*Uranium(acute) = See 37.5(3) for details.		Boron	---	0.75	Lead	TVS	TVS
*Uranium(chronic) = See 37.5(3) for details.		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	---	0.44 TVS*	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

15a. Mainstem of Plateau Creek from its source to the inlet of Vega Reservoir. All tributaries and wetlands to Plateau Creek from its source to a point immediately above the confluence with Buzzard Creek. Kimball Creek, Grove Creek, Big Creek, Cottonwood Creek, Bull Creek, Spring Creek, Coon Creek, and Mesa Creek, including all wetlands and tributaries, from their sources to their confluences with Plateau Creek. The mainstem of Buzzard Creek, including all tributaries and wetlands, within the Grand Mesa National Forest.							
COLCLC15A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
<div>*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 37.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 37.5(4).</div> <div>*Uranium(acute) = See 37.5(3) for details.</div> <div>*Uranium(chronic) = See 37.5(3) for details.</div>		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Colorado River

15b. All tributaries and wetlands to Buzzard Creek from the Grand Mesa National Forest boundary to the confluence with Plateau Creek.							
COLCLC15B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

15c. Mainstem of Plateau Creek from the outlet of Vega Reservoir to a point immediately below the confluence with Buzzard Creek.							
COLCLC15C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450*TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 37.5(4).		Inorganic (mg/L)			Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 37.5(4).		acute	chronic	Iron(T)	---	1000	
*Uranium(acute) = See 37.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 37.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
*Temperature =		Chloride	---	250	Manganese	TVS	TVS/WS
DM=15.7 and MWAT=11.2 from 10/1-10/31		Chlorine	0.019	0.011	Mercury(T)	---	0.01
DM=14.1 and MWAT=CS-II from 11/1-3/31		Cyanide	0.005	---	Molybdenum(T)	---	150
DM=27.3 and MWAT=21.6 from 4/1-9/30		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

15c. Mainstem of Plateau Creek from the outlet of Vega Reservoir to a point immediately below the confluence with Buzzard Creek.							
COLCLC15C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	450*TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 37.5(4).		Inorganic (mg/L)			Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 37.5(4).		acute	chronic	Iron(T)	---	1000	
*Uranium(acute) = See 37.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 37.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
*Temperature =		Chloride	---	250	Manganese	TVS	TVS/WS
DM=15.7 and MWAT=11.2 from 10/1-10/31		Chlorine	0.019	0.011	Mercury(T)	---	0.01
DM=14.1 and MWAT=CS-II from 11/1-3/31		Cyanide	0.005	---	Molybdenum(T)	---	150
DM=27.3 and MWAT=21.6 from 4/1-9/30		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Colorado River

15d. Mainstem of Buzzard Creek from the Grand Mesa National Forest boundary to its confluence with Plateau Creek.								
COLCLC15D	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details. *Temperature = DM=CS-II and MWAT=CS-II from 11/1-3/31 DM=25.1 and MWAT=18.9 from 4/1-10/31	chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
		acute	chronic	Iron(T)	---	1000		
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
		Zinc	TVS	TVS				
		16. Plateau Creek including all tributaries and wetlands, from a point immediately below the confluence with Buzzard Creek, to the confluence with the Colorado River, excluding listings in segments 5, 15a and 21.						
		COLCLC16	Classifications	Physical and Biological			Metals (ug/L)	
		Designation	Agriculture	DM	MWAT	acute	chronic	
		Reviewable	Aq Life Warm 1	Temperature °C	varies*	varies*	Arsenic	340
Recreation E	acute		chronic	Arsenic(T)	---	0.02		
Water Supply	D.O. (mg/L)		---	6.0	Cadmium	TVS	TVS	
	D.O. (spawning)		---	7.0	Cadmium(T)	5.0	---	
	Qualifiers:	pH	6.5 - 9.0	---	Chromium III	---	TVS	
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *chl oreophyll a (mg/m2)(chronic) = applies only above the facilities listed at 37.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 37.5(4). *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details. *Temperature = DM=WS-II and MWAT=WS-II from 12/1-2/29 DM=31 and MWAT=WS-II from 3/1-11/30	chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
		acute	chronic	Iron(T)	---	1000		
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.44TVS*	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS	
		Sulfide	---	0.002	Uranium	varies*	varies*	
		Zinc	TVS	TVS				

16. Plateau Creek including all tributaries and wetlands, from a point immediately below the confluence with Buzzard Creek, to the confluence with the Colorado River, excluding listings in segments 5, 15a and 21.							
COLCLC16	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Warm 1	Temperature °C	varies*	varies*	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	450* TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS
		Sulfide	---	0.002	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Colorado River

17a. Rapid Creek, including all tributaries and wetlands, from its source to below the confluence with Cottonwood Creek (39.130512, -108.301028), including Kruzen Springs.						
COLCLC17A	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
OW	Aq Life Cold 1	Temperature °C	CS-II CS-II	Arsenic	340	---
	Recreation P	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---
Other:		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	50
Temporary Modification(s):		E. coli (per 100 mL)	---	205	Chromium VI	TVS
Arsenic(chronic) = hybrid					Copper	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)		Iron	---	WS
*Uranium(acute) = See 37.5(3) for details.		acute	chronic	Iron(T)	---	1000
*Uranium(chronic) = See 37.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	0.44TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS
17b. Rapid Creek, including all tributaries and wetlands, from below the confluence with Cottonwood Creek (39.130512, -108.301028) to the confluence with the Colorado River.						
COLCLC17B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II CS-II	Arsenic	340	---
	Recreation P	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---
Other:		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	50
Temporary Modification(s):		E. coli (per 100 mL)	---	205	Chromium VI	TVS
Arsenic(chronic) = hybrid					Copper	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)		Iron	---	WS
*Uranium(acute) = See 37.5(3) for details.		acute	chronic	Iron(T)	---	1000
*Uranium(chronic) = See 37.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	0.44TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Colorado River

18. Mainstem of Little Dolores River, including all tributaries and wetlands, from its source to immediately below the confluence with Hay Press Creek.							
COLCLC18	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---
	Recreation P	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.		acute	chronic	Iron(T)	---	1000	
*Temperature =		Ammonia	TVS	TVS	Lead	TVS	TVS
DM=13.9 and MWAT=CS-I from 10/1-4/30		Boron	---	0.75	Lead(T)	50	---
DM=24.4 and MWAT=CS-I from 5/1-9/30		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
19. All lakes and reservoirs tributary to the Colorado River from a point immediately below the confluence of the Colorado River and Parachute Creek to the Colorado-Utah border, except for listings in segments 9b, 13c, 20, and 21. This segment includes Highline Reservoir.							
COLCLC19	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	7.6	
	Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS
Other:		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		chlorophyll a (ug/L)	---	20*TVS	Chromium III(T)	---	100
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.		Inorganic (mg/L)			Copper	TVS	TVS
*Uranium(chronic) = See 37.5(3) for details.		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
		Nitrogen	---	TVS	Uranium	varies*	varies*
		Phosphorus	---	0.083*TVS	Zinc	TVS	TVS
		Sulfate	---	---			
		Sulfide	---	0.002			

19. All lakes and reservoirs tributary to the Colorado River from a point immediately below the confluence of the Colorado River and Parachute Creek to the Colorado-Utah border, except for listings in segments 9b, 13c, 20, and 21. This segment includes Highline Reservoir.							
COLCLC19	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT				
	Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340
	Recreation E	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
<div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 37.5(3) for details.</div> <div>*Uranium(chronic) = See 37.5(3) for details.</div>		chlorophyll a (ug/L)	---	20*TVS	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
		Nitrogen	---	TVS	Uranium	varies*	varies*
		Phosphorus	---	0.083*TVS	Zinc	TVS	TVS
		Sulfate	---	---			
		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 37.6 for further details on applied standards.

REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Colorado River

20. Rifle Gap Reservoir, Harvey Gap Reservoir, and Vega Reservoir.						
COLCLC20	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	varies* varies* B	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Nitrogen	---	TVS	Nickel(T)	---
		Phosphorus	---	0.025*TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

21. All lakes and reservoirs tributary to Roan Creek from the source to a point just below the confluence with Clear Creek. All lakes and reservoirs tributary to Rapid Creek from the source to the confluence with the Colorado River. All lakes and reservoirs tributary to the Little Dolores River from the source to a point immediately below the confluence with Hay Press Creek. All lakes and reservoirs tributary to Plateau Creek and within the Grand Mesa National Forest.

COLCLC21	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340
	Recreation U	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
	DUWS*	D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---
Other:		chlorophyll a (ug/L)	---	DUWS8*	Chromium III(T)	50
		chlorophyll a (ug/L)	---	TVS	Chromium VI	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS
		Inorganic (mg/L)		Iron	---	WS
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Nitrogen	---	TVS	Selenium	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS
		Sulfate	---	WS	Uranium	varies*
		Sulfide	---	0.002	Zinc	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 37.6 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.

DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Water Quality Control Commission

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

5 CCR 1002-38

38.1 AUTHORITY

These regulations are promulgated pursuant to section 25-8-101 et seq C.R.S., as amended, and in particular, 25-8-203 and 25-8-204.

38.2 PURPOSE

These regulations establish classification and numeric standards for the South Platte River, the Laramie River, the Republican River and the Smoky Hill River, including all tributaries and standing bodies of water as indicated in section 38.6. The classifications identify the actual beneficial uses of the water. The numeric standards are assigned to determine the allowable concentrations of various parameters. Discharge permits will be issued by the Water Quality Control Division to comply with basic, narrative, and numeric standards and control regulations so that all discharges to waters of the state protect the classified uses. It is intended that these and all other stream classifications and numeric standards be used in conjunction with and be an integral part of Regulation No. 31 Basic Standards and Methodologies for Surface Water.

38.3 INTRODUCTION

These regulations and Tables present the classifications and numeric standards assigned to stream segments listed in the attached Tables (See Appendix 38-1). As additional stream segments are classified and numeric standards for this drainage system are adopted, they will be added to or replace the numeric standards in the Tables in Appendix 38-1. Any additions or revisions of classifications or numeric standards can be accomplished only after public hearing by the Commission and proper consideration of evidence and testimony as specified by the statute and the "basic regulations".

38.4 DEFINITIONS

See the Colorado Water Quality Control Act and the codified water quality regulations for definitions.

38.5 BASIC STANDARDS

(1) Temperature

All waters of the South Platte, Laramie, Republican and Smoky Hill River Basins are subject to the following standard for temperature. (Discharges regulated by permits, which are within the permit limitations, shall not be subject to enforcement proceedings under this standard.) Temperature shall maintain a normal pattern of diurnal and seasonal fluctuations with no abrupt changes and shall have no increase in temperature of a magnitude, rate, and duration deemed deleterious to the resident aquatic life. This standard shall not be interpreted or applied in a manner inconsistent with section 25-8-104, C.R.S.

(2) Qualifiers

See Basic Standards and Methodologies for Surface Water for a listing of organic standards at 31.11 Table B and metal standards found at 31.16 Table III. The column in the tables headed "Water + Fish" are presumptively applied to all Aquatic Life Class 1 streams which also have a Water Supply classification, and are applied to Aquatic Life Class 2 streams which also have a Water Supply classification, on a case-by-case basis as shown in Appendix 38-1. The column in the tables at 31.11 headed "Fish Ingestion" is presumptively applied to all Aquatic Life Class 1 streams which do not have a Water Supply classification, and are applied to Aquatic Life Class 2 streams which do not have a Water Supply classification, on a case-by-case basis, as shown in Appendix 38-1.

(3) Uranium

- (a) All waters of the South Platte River Basin are subject to the following basic standard for uranium, unless otherwise specified by a water quality standard applicable to a particular segment. However, discharges of uranium regulated by permits which are within these permit limitations shall not be a basis for enforcement proceedings under this basic standard.
- (b) Uranium level in surface waters shall be maintained at the lowest practicable level.
- (c) In no case shall uranium levels in waters assigned a Water Supply classification be increased by any cause attributable to municipal, industrial, or agricultural discharges so as to exceed 16.8-30 µg/L or naturally-occurring concentrations (as determined by the State of Colorado), whichever is greater.
 - (i) The first number in the 16.8-30 µg/L 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.

(4) Nutrients

See Basic Standards and Methodologies for Surface Water at 31.17 for a listing of chlorophyll a, total nitrogen, and total phosphorus standards for lakes and reservoirs (Table V) and rivers and streams (Table VI). As described in 31.17(2), total nitrogen and total phosphorus standards will be considered for adoption in phases.

Prior to December 31, ~~2022~~ for chlorophyll a and prior to December 31, 2027 for, total nitrogen and total phosphorus, interim nutrient values will be considered for adoption only in the limited circumstances defined at 31.17(~~e~~), (~~f~~), and (~~g~~). ~~These 2~~ (a)(i) and (ii). For lakes and reservoirs, these circumstances include ~~headwaters, waterbodies upstream of certain domestic and non-domestic wastewater treatment facilities (31.17(2)(a)(i)(A)), waterbodies with a Direct Use Water Supply (DUWS) Lakes and Reservoirs, sub-classification (31.17(2)(a)(i)(B)), waterbodies with public swim beaches (31.17(2)(a)(i)(C)),~~ and other special circumstances determined by the

Commission. ~~After December 31, 2022, total nitrogen will be considered for adoption per the (31.17(2)(a)(i)(D)). For rivers and streams, these circumstances outlined in 31.17(g) and (h).~~

~~Prior to December 31, 2027, nutrient criteria will be adopted for headwaters on a segment by segment basis for the South Platte River Basin. Moreover, pursuant to 31.17(e), nutrient standards will only be adopted for waters upstream of all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012, and any non-domestic include waterbodies upstream of certain domestic and non-domestic wastewater treatment facilities subject to Regulation 85 effluent limits and discharging prior to May 31, 2012. The (31.17(2)(a)(ii)(A)) and other special circumstances determined by the Commission (31.17(2)(a)(ii)(B)).~~

Pursuant to 31.17(2)(a)(i)(A) and 31.17(2)(a)(ii)(A), the following is a list of all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012, cooling tower discharges, and any non-domestic facilities subject to Regulation 85 effluent limits and discharging prior to May 31, 2012 in the South Platte River Basin:

Segment	Permittee	Facility name	Permit No.
COSPUS01a	Alma Town of	Alma, Town of	CO0035769
COSPUS01a	Fairplay Sanitation District	Fairplay Sanitation District WWTF	CO0040088
COSPUS01a	Boy Scouts of America Pikes Peak Council	Camp Alexander	COG588036
COSPUS02a	Florissant Water and San Dist	Florissant Water and San Dist	CO0041416
COSPUS02a	Teller County	Teller County WW Utility Board	CO0044211
COSPUS03	Woodland Park City of	Woodland Park, City of	CO0043214
COSPUS03	YMCA Camp Shady Brook	Camp Shady Brook	CO0045993
COSPUS03	Lost Valley Ranch Corporation	Lost Valley Ranch	COG588122
COSPUS04	Will-O-Wisp Metro District	Will-O-Wisp Metro District	CO0041521
COSPUS04	Bailey WSD	Bailey WSD WWTF	COG588056
COSPUS04	Platte Canyon School Dist 1	Platte Canyon School Dist 1	COG588114
COSPUS05c	Mountain Water and Sanitation District	Mountain Water&Sanitation District	CO0022730
COSPUS06a	Roxborough Water and Sanitation District	Roxborough Park Water&San WWTF	CO0041645
COSPUS10a	Plum Creek Water Reclamation Authority	Plum Creek WW Authority WWTF	CO0038547
COSPUS10a	Perry Park Water and Sanitation District	Sageport WWTF	CO0043044
COSPUS11b	Perry Park Water and Sanitation District	Waucondah WWTP	CO0022551
COSPUS14	Littleton/Englewood Cities of	Littleton/Englewood, Cities of	CO0032999
COSPUS15	Metro Waste Water Reclamation District	Metro Wastewater Reclamation District	CO0026638
COSPUS15	Brighton City of	Brighton WWTF	CO0021547
COSPUS15	South Adams County WSD	Williams Monoco WWTF	CO0026662
COSPUS15	Metro Waste Water Reclamation District	Northern Treatment Plant	CO0048959
COSPUS16c	Ascentia Real Estate Holding Company LLC	Foxridge Farms MH Community	CO0028908
COSPUS16c	SouthWest Water Company	Hi-Land Acres W&SD WWTF	COG589072
COSPUS16c	Mile High Racing and Enter dba Arapahoe Park	Arapahoe Park Racetrack	COG589073
COSPUS16c	Rangeview Metro District	Coal Creek WW Reclamation Fac	COG589108
COSPUS16g	Centennial Water and San Dist	Marcy Gulch WWTF	CO0037966

Segment	Permittee	Facility name	Permit No.
COSPUS16i	Aurora City of - Aurora Water	Sand Creek Water Reuse Facility	CO0026611
COSPCH01	Stonegate Village Metropolitan District	Stonegate Village WWTF	CO0040291
COSPCH01	Pinery Water and Wastewater District	Pinery WWTF	CO0041092
COSPCH01	Parker Water and Sanitation District	Parker North WRF	CO0046507
COSPCH04	Arapahoe County W and WW Authority	Lone Tree Creek WWTP	CO0040681
COSPBE01a	Amen Real Estate LLC	Singin' River Ranch WWTF	CO0035971
COSPBE01b	Morrison Town of	Morrison Town of	CO0041432
COSPBE01e	Kittredge Sanitation and Water District	Kittredge San & Water District	CO0023841
COSPBE01e	Bruce & Jayne Hungate DBA Bear Creek Cabins	Bear Creek Cabins	CO0030856
COSPBE01e	Evergreen Metropolitan District	Evergreen Metropolitan Dist WWTF	CO0031429
COSPBE04a	Genesee WSD	Genesee Water & San District	CO0022951
COSPBE04a	Forest Hills Metro District	Forest Hills Metropolitan Dist	CO0037044
COSPBE05	West Jefferson County MD	W. Jefferson County Metro Dist	CO0020915
COSPBE05	Historic Brook Forest Inn LLC	Brook Forest Inn	CO0030261
COSPBE06a	Tiny Town Foundation Inc	Tiny Town	CO0036129
COSPBE06a	Aspen Park Metropolitan District	Aspen Park Metropolitan District	CO0000001
COSPBE06b	Jefferson County Public Schools R-1	Conifer High School WW Rec Plt	CO0047988
COSPCL01	Colorado Dept of Transportation	Eisenhower/Johnson Memorial Tunnels	CO0026069
COSPCL01	Clear Creek Skiing Corp	Loveland Ski Area WWTF	CO0040835
COSPCL02a	Georgetown Town of	Georgetown WWTF	CO0027961
COSPCL02c	Central Clear Creek SD	Central Clear Creek SD WWTF	COG588055
COSPCL05	Empire Town of	Empire Town of	COG588065
COSPCL09a	St Marys Glacier WSD	St Mary's Glacier WSD	CO0023094
COSPCL10	Shwayder Camp Wastewater	Shwayder Camp WWTF	CO0047473
COSPCL11	Idaho Springs City of	Idaho Springs WWTF	CO0041068
COSPCL12b	Clear Creek WWTP	Clear Creek WWTP	CO0046574
COSPCL13b	Black Hawk/Central City Sanitation District	Black Hawk/Central City SD WWTF	CO0046761
COSPCL14a	MillerCoors LLC	MillerCoors Golden Facility	CO0001163
COSPBD01	Westminster City of	Big Dry Creek WWTF	CO0024171
COSPBD01	Broomfield City and County	Broomfield WWTF	CO0026409
COSPBD01	Northglenn City of	Northglenn WWTF	CO0036757
COSPBO02b	San Lazaro Park Properties LLP c/o	San Lazaro MHP WWTF	CO0020184
COSPBO02b	BaseCamp Ventures LLC	Boulder Mountain Lodge WWTF	CO0040819
COSPBO02b	Mueller Red Lion Inn	Red Lion Inn WWTF	COG588118
COSPBO03	Nederland Town of	Nederland Town of WWTF	CO0020222
COSPBO04b	Eldorado Springs Wastewater	Eldorado Springs WWTF	CO0047651
COSPBO04b	San Souci MHP	San Souci MHP	COG588101
COSPBO07b	Louisville City of	Louisville WWTF	CO0023078
COSPBO07b	Lafayette City of	Lafayette WWTF	CO0023124
COSPBO07b	Erie Town of	Erie WWTF	CO0045926
COSPBO08	Superior Metropolitan District No 1	Superior Metropolitan Dist No1	CO0043010
COSPBO09	Boulder City of	75TH ST WWTP	CO0024147
COSPBO10	Erie Town of	Erie North Water Reclamation Facility	CO0048445
COSPBO10	B & B Mobile Home and RV Park	B & B Mobile Home & RV Park	COG588107

Segment	Permittee	Facility name	Permit No.
COSPBO14	Lake Eldora WSD	Lake Eldora WSD WWTF	CO0020010
COSPSV02a	Peaceful Valley Ranch LLC	Peaceful Valley Ranch WWTF	CO0048828
COSPSV02a	Seventh-Day Adventist Assoc of Colorado	Glacier View Ranch	CO0030112
COSPSV02a	Aspen Lodge at Estes Park Corp	Aspen Lodge at Estes Park Corp	CO0042820
COSPSV02b	Lyons Town of	Lyons Town of	CO0020877
COSPSV03	Longmont City of	Longmont WWTF	CO0026671
COSPSV03	St Vrain Sanitation District	St Vrain Sanitation District	CO0041700
COSPSV06a	Fairways Metro Dist	Fairways WWTF	CO0048411
COSPSV06b	Niwot Sanitation District	Niwot Sanitation District	CO0021695
COSPSV06b	Mead Town of	Lake Thomas Subdivision WWTF	CO0046868
COSPSV06b	Mead Town of	Mead, Town of	CO0046876
COSPMS01a	Fort Lupton City of	Fort Lupton WWTF	CO0021440
COSPMS01a	Platteville Town of	Platteville WWTF	CO0040355
COSPMS01b	Evans City of	Evans City of WWTF	CO0020508
COSPMS01b	Kersey Town of	Kersey WWTF	CO0021954
COSPMS01b	Evans City of	Hill-N-Park Sanitation Dist.	CO0047287
COSPMS01b	La Salle Town of	La Salle Town of	COG588058
COSPMS01b	Gilcrest Town of	Gilcrest WWTF	COG588121
COSPMS03a	Elizabeth Town of	Gold Creek	COG589037
COSPMS03a	Galeton Water and Sanitation District	Galeton Water & San District	CO0043320
COSPMS03a	Orica USA Inc	Orica USA, Inc.	CO0046221
COSPMS03a	Spring Valley Ranch	Spring Valley Ranch WWTF	CO0046965
COSPMS03a	Front Range Airport WWTF	Front Range Airport WWTF	CO0047741
COSPMS04	Lochbuie Town of	Lochbuie Town of	CO0047198
COSPMS05a	Swift Beef Company	Swift Beef – Lone Tree	CO0027707
COSPMS05c	Hudson WWTF	Hudson Mechanical WWTF	COG589104
COSPMS06	Keenesburg Town of	Keenesburg Town of	CO0041254
COSPMS06	Bennett Town of	Bennett Town of	COG589069
COSPBT02	Estes Park Sanitation District	Estes Park Sanitation District	CO0020290
COSPBT02	Upper Thompson Sanitation District	UTSD WWTF	CO0031844
COSPBT04	Loveland City of	Loveland WWTP	CO0026701
COSPBT05	Milliken Town of	Milliken Sanitation District	CO0042528
COSPBT05	Johnstown Town of	Low Point WWTP	CO0047058
COSPBT07	Hidden View Estates HOA	Hidden View Estates HOA WWTF	CO0048861
COSPBT09	Johnstown Town of	Johnstown Central WWTF	CO0021156
COSPBT09	Riverglen Homeowners Assoc	Riverglen HOA WWTF	CO0029742
COSPBT09	Berthoud Town of	Berthoud Town of	CO0046663
COSPBT10	Berthoud Town of	Serenity Ridge WWTF	CO0047007
COSPBT10	Western Mini-Ranch/Vaquero Estates Sewer Assoc.	Western Mini-Ranch/Vaquero Est	COG589095
COSPBT10	Berthoud Estates Community Assoc	Berthoud Estates WWTF	COG589097
COSPCP08	Fox Acres Community Services Corp	Fox Acres WWTF	COG589112
COSPCP08	Girl Scouts of Colorado	Magic Sky Ranch G.S. Camp	CO0047317
COSPCP11	Fort Collins City of	Mulberry WWTP	CO0026425
COSPCP11	Fort Collins City of	Drake WWTP	CO0047627
COSPCP12a	Windsor, Town of	Windsor Town of WWTF	CO0020320

Segment	Permittee	Facility name	Permit No.
COSPCP12b	Greeley City of	Greeley City of	CO0040258
COSPCP12b	Leprino Foods Company	Leprino Greeley Facility WWTF	CO0048860
COSPCP13a	Anheuser Busch Inc	Nutri-Turf, Inc.	CO0039977
COSPCP13a	Eaton Town of	Eaton, Town of	CO0047414
COSPCP13a	Saddler Ridge Metro Dist Water Reclamation Facility	Saddler Ridge Metro Dist Water Reclamation Facility	COG589107
COSPCP13c	Boxelder Sanitation District	Boxelder Sanitation District WWTF	CO0020478
COSPCP13c	Wellington Town of	Wellington WWTF	CO0046451
COSPCP22	South Fort Collins Sanitation District	South Fort Collins San Dist	CO0020737
COSPLS01a	Western Sugar Cooperative	Fort Morgan Facility	CO0041351
COSPLS01a	Cargill Meat Solutions	Fort Morgan Beef Plant	CO0044270
COSPLS01a	Brush City of	Brush City of	CO0021245
COSPLS01a	Fort Morgan City of	Fort Morgan City of	CO0044849
COSPLS01a	Snyder Sanitation District	Snyder Sanitation District	COG588016
COSPLS01a	Morgan Heights WSD	Morgan Heights Water & Sewer Inc.	COG588040
COSPLS01b	Julesburg Town of	Julesburg Town of	CO0021113
COSPLS01b	Sterling City of	Sterling City of	CO0026247
COSPLS01b	Ovid Town of	Ovid Town of	COG588106
COSPLS02	Leprino Foods Company	Fort Morgan Cheese Facility	CO0043958
COSPLS02	Deer Trail Town of	Deer Trail WWTF	COG589002
COSPLS02	Hillrose Town of	Hillrose WWTF	COG589030
COSPLS02	Byers Water and Sanitation District	Byers Water and Sanitation District	COG589033
COSPLS02	Eastern Adams County Metro District	Eastern Adams CO Metro Dist WWTF	COG589035
COSPLS02	Kiowa Town of	Kiowa WWTF	CO0033405
COSPLS02	Elbert Water Sanitation District	Elbert Water Sanitation District WWTF	COG589065
COSPRE03	Wray City of	Wray City of	CO0023833
COSPRE06	Flagler Town of	Flagler WWTF	COG589036
COSPRE06	Arriba Town of	Arriba WWTF	COG589055
COSPRE06	Holyoke City of	Holyoke, City of	COG589059
COSPRE06	Akron Town of	Akron WWTF	COG589061
COSPRE06	Haxtun Town of	Haxtun. Town of	COG589062
COSPRE06	Stratton Town of	Stratton WWTF	COG589100
COSPRE06	Burlington City of	Burlington City of WWTF	COG589114
COSPRE06	Seibert Town of	Seibert WWTF	COG589120
COSPRE07	Cheyenne Wells Sanitation District No 1	Cheyenne Wells Sanitation District	COG589039
Unclassified	Silco Oil Co	Tomahawk Truck Stop	COG589003

Prior to December 31, 2027:

- For segments located entirely above these facilities, ~~nutrient~~total nitrogen and total phosphorus standards apply to the entire segment.
- For segments with portions downstream of these facilities, ~~nutrient~~total nitrogen and total phosphorus standards only apply above these facilities, except where a waterbody has a DUWS sub-classification or public swim beach. A note was added to the total phosphorus and ~~chlorophyll-a~~total nitrogen standards in these segments. The note references the table of qualified facilities at 38.5(4).

- For segments located entirely below these facilities, ~~nutrient~~total nitrogen and total phosphorus standards do not apply, except where a waterbody has a DUWS sub-classification or public swim beach.
- Additionally, for segments with portions downstream of these facilities or for segments located entirely below these facilities, total nitrogen and total phosphorus standards may apply where special circumstances have been identified by the Commission (31.17(2)(a)(i)(D) and 31.17(2)(a)(ii)(B)).

~~A note was added to the total phosphorus and chlorophyll a standards in lakes segments as nutrients standards apply only to lakes and reservoirs larger than 25 acres surface area.~~

38.6 TABLES

(1) Introduction

The numeric standards for various parameters in this regulation and in the tables in Appendix 38-1 were assigned by the Commission after a careful analysis of the data presented on actual stream conditions and on actual and potential water uses. For each parameter listed in the tables in Appendix 38-1, only the most stringent standard is shown. Additional, less stringent standards may apply to protect additional uses and can be found in the tables in Regulation No. 31.

Numeric standards are not assigned for all parameters listed in the tables in Regulation No. 31. If additional numeric standards are found to be needed during future periodic reviews, they can be assigned by following the proper hearing procedures.

(2) Abbreviations

(a) The following abbreviations are used in this regulation and in the tables in Appendix 38-1:

ac	=	acute (1-day)
AEL	=	alternative effluent limit
°C	=	degrees Celsius
ch	=	chronic (30-day)
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
DM	=	daily maximum temperature
D.O.	=	dissolved oxygen
DUWS	=	direct use water supply
<i>E. coli</i>	=	<i>Escherichia coli</i>
mg/L	=	milligrams per liter
MWAT	=	maximum weekly average temperature
OW	=	outstanding waters
sp	=	spawning
SSE	=	site-specific equation
T	=	total recoverable
t	=	total
tr	=	trout
TVS	=	table value standard
µg/L	=	micrograms per liter
UP	=	use-protected
WL	=	warm lake temperature tier
WS	=	water supply
WS-I	=	warm stream temperature tier one
WS-II	=	warm stream temperature tier two

WS-III = warm stream temperature tier three

(b) In addition, the following abbreviations are used:

Iron (chronic) = WS
Manganese (chronic) = WS
Sulfate (chronic) = WS

These abbreviations mean: For all surface waters with an actual water supply use, the less restrictive of the following two options shall apply as numerical chronic standards, as specified in the Basic Standards and Methodologies at 31.11(6);

- (i) existing quality as of January 1, 2000; or
- (ii)

Iron	=	300 µg/L (dissolved)
Manganese	=	50 µg/L (dissolved)
Sulfate	=	250 mg/L (dissolved)

For all surface waters with a Water Supply classification that are not in actual use as a water supply, no Water Supply standards are applied for iron, manganese or sulfate, unless the Commission determines as the result of a site-specific rulemaking hearing that such standards are appropriate.

(c) Temporary Modification for Water + Fish Chronic Arsenic Standard

- (i) The temporary modification for chronic arsenic standards applied to segments with an arsenic standard of 0.02 µg/L that has been set to protect the Water + Fish qualifier is listed in the Other column in Appendix 38-1 tables as As(ch)=hybrid.
- (ii) For discharges existing on or before 6/1/2013, the temporary modification is: As(ch)=current condition, expiring on 12/31/2024. Where a permit for an existing discharge is reissued or modified while the temporary modification is in effect, the division will include additional permit Terms and Conditions, which may include requirements for additional monitoring, source identification, and characterization of source control and treatment options for reducing arsenic concentrations in effluent.
- (iii) For new or increased discharges commencing on or after 6/1/2013, the temporary modification is: As(ch)=0.02-3.0 µg/L (total recoverable), expiring on 12/31/2024.
 - (a) The first number in the range is the health-based water quality standard previously adopted by the Commission for the segment.
 - (b) The second number in the range is a technology-based value established by the Commission for the purpose of this temporary modification.
 - (c) 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.

(3) Table Value Standards

In certain instances in the tables in Appendix 38-1, the designation “TVS” is used to indicate that for a particular parameter a “table value standard” has been adopted. This designation refers to numerical criteria set forth in the Basic Standards and Methodologies for Surface Water. The criteria for which the TVS are applicable are on the following table.

TABLE VALUE STANDARDS
(Concentrations in µg/L unless noted)

PARAMETER ⁽¹⁾	TABLE VALUE STANDARDS ⁽²⁾⁽³⁾				
Aluminum(T)	Acute = $e^{(1.3695 \ln(\text{hardness}) + 1.8308)}$ pH equal to or greater than 7.0 Chronic = $e^{(1.3695 \ln(\text{hardness}) - 0.1158)}$ pH less than 7.0 Chronic = $e^{(1.3695 \ln(\text{hardness}) - 0.1158)}$ or 87, whichever is more stringent				
Ammonia ⁽⁴⁾	Cold Water = (mg/L as N)Total $acute = \frac{0.275}{1 + 10^{7.204 - pH}} + \frac{39.0}{1 + 10^{pH - 7.204}}$ $chronic = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * MIN(2.85, 1.45 * 10^{0.028(25 - T)})$ Warm Water = (mg/L as N)Total $acute = \frac{0.411}{1 + 10^{7.204 - pH}} + \frac{58.4}{1 + 10^{pH - 7.204}}$ $chronic (Apr 1 - Aug 31) = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * MIN(2.85, 1.45 * 10^{0.028(25 - T)})$ $chronic (Sep 1 - Mar 31) = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * 1.45 * 10^{0.028 * (25 - MAX(T, 7))}$				
Cadmium	Acute(warm) ⁽⁵⁾ = $(1.136672 - (\ln(\text{hardness}) * 0.041838)) * e^{(0.9789 \ln(\text{hardness}) - 3.443)}$ Acute(cold) ⁽⁵⁾ = $(1.136672 - (\ln(\text{hardness}) * 0.041838)) * e^{(0.9789 \ln(\text{hardness}) - 3.866)}$ Chronic = $(1.101672 - (\ln(\text{hardness}) * 0.041838)) * e^{(0.7977 \ln(\text{hardness}) - 3.909)}$				
<u>Chlorophyll a⁽⁶⁾</u>	<u>See 31.17 TVS for Aquatic Life and/or Recreation and Direct Use Water Supply (DUWS).</u>				
Chromium III ^(Z6)	Acute = $e^{(0.819 \ln(\text{hardness}) + 2.5736)}$ Chronic = $e^{(0.819 \ln(\text{hardness}) + 0.5340)}$				
Chromium VI ^(Z6)	Acute = 16 Chronic = 11				
Copper	Acute = $e^{(0.9422 \ln(\text{hardness}) - 1.7408)}$ Chronic = $e^{(0.8545 \ln(\text{hardness}) - 1.7428)}$				
Lead	Acute = $(1.46203 - (\ln(\text{hardness}) * 0.145712)) * e^{(1.273 \ln(\text{hardness}) - 1.46)}$ Chronic = $(1.46203 - (\ln(\text{hardness}) * 0.145712)) * e^{(1.273 \ln(\text{hardness}) - 4.705)}$				
Manganese	Acute = $e^{(0.3331 \ln(\text{hardness}) + 6.4676)}$ Chronic = $e^{(0.3331 \ln(\text{hardness}) + 5.8743)}$				
Nickel	Acute = $e^{(0.846 \ln(\text{hardness}) + 2.253)}$ Chronic = $e^{(0.846 \ln(\text{hardness}) + 0.0554)}$				
<u>Nitrogen⁽⁶⁾</u>	<u>See 31.17 TVS for Aquatic Life and/or Recreation.</u>				
<u>Phosphorus⁽⁶⁾</u>	<u>See 31.17 TVS for Aquatic Life and/or Recreation.</u>				
Selenium ^(8Z)	Acute = 18.4 Chronic = 4.6				
Silver	Acute = $0.5 * e^{(1.72 \ln(\text{hardness}) - 6.52)}$ Chronic = $e^{(1.72 \ln(\text{hardness}) - 9.06)}$ Chronic(Trout) = $e^{(1.72 \ln(\text{hardness}) - 10.51)}$				
Temperature	TEMPERATURE TIER	TIER CODE	SPECIES EXPECTED TO BE PRESENT	APPLICABLE MONTHS	TEMPERATURE STANDARD (°C) (MWAT) (DM)

PARAMETER ⁽¹⁾	TABLE VALUE STANDARDS ⁽²⁾⁽³⁾					
	Cold Stream Tier I ⁽⁹⁸⁾	CS-I	brook trout, cutthroat trout	June – Sept.	17.0	21.7
				Oct. - May	9.0	13.0
	Cold Stream Tier II ⁽⁹⁸⁾	CS-II	all other cold-water species	April – Oct.	18.3	24.3
				Nov. - March	9.0	13.0
	Cold Lake ⁽¹⁰⁹⁾	CL	brook trout, brown trout, cutthroat trout, lake trout, rainbow trout, Arctic grayling, sockeye salmon	April – Dec.	17.0	21.2
				Jan. - March	9.0	13.0
	Cold Large Lake (>100 acres surface area) ⁽¹⁰⁹⁾	CLL	brown trout, lake trout, rainbow trout	April – Dec.	18.3	24.2
				Jan. - March	9.0	13.0
	Warm Stream Tier I	WS-I	common shiner, Johnny darter, orangethroat darter, stonecat	March – Nov.	24.2	29.0
				Dec. – Feb.	12.1	24.6
	Warm Stream Tier II	WS-II	brook stickleback, central stoneroller, creek chub, longnose dace, northern redbelly dace, finescale dace, razorback sucker, white sucker, mountain sucker	March – Nov.	27.5	28.6
				Dec. – Feb.	13.8	25.2
	Warm Stream Tier III	WS-III	all other warm-water species	March – Nov.	28.7	31.8
				Dec. – Feb.	14.3	24.9
Warm Lakes	WL	yellow perch, walleye, pumpkinseed, smallmouth bass, striped bass, white bass, largemouth bass, bluegill, spottail shiner, stonecat, northern pike, tiger muskellunge, black crappie, common carp, gizzard shad, sauger, white crappie, wiper	April – Dec.	26.2	29.3	
			Jan. - March	13.1	24.1	
Uranium	Acute = e ^{(1.1021*ln(hardness)+2.7088)} Chronic = e ^{(1.1021*ln(hardness)+2.2382)}					
Zinc	Acute = 0.978*e ^{(0.9094*ln(hardness)+0.9095)} Chronic = 0.986*e ^{(0.9094*ln(hardness)+0.6235)}					

TABLE VALUE STANDARDS - FOOTNOTES

- (1) Metals are stated as dissolved unless otherwise specified. Nitrogen and phosphorus standards are based upon the concentration of total nitrogen and total phosphorus.
- (2) Hardness values to be used in equations are in mg/L as calcium carbonate and shall be no greater than 400 mg/L except for aluminum for which hardness shall be no greater than 220 mg/L. The hardness values used in calculating the appropriate metal standard should be based on the lower 95 per cent confidence limit of the mean hardness value at the periodic low flow criteria as determined from a regression analysis of site-specific data. Where insufficient site-specific data exists to define the mean hardness value at the periodic low flow criteria, representative regional data shall be used to perform the regression analysis. Where a regression analysis is not appropriate, a site-specific method should be used. In calculating a hardness value, regression analyses should not be extrapolated past the point that data exist.
- (3) Both acute and chronic numbers adopted as stream standards are levels not to be exceeded more than once every three years on the average.

- (4) For acute conditions the default assumption is that salmonids could be present in cold water segments and should be protected, and that salmonids do not need to be protected in warm water segments. For chronic conditions, the default assumptions are that early life stages could be present all year in cold water segments and should be protected. In warm water segments the default assumption is that early life stages are present and should be protected only from April 1 through August 31. These assumptions can be modified by the Commission on a site-specific basis where appropriate evidence is submitted. The "T" in the chronic equations stands for temperature.
- (5) The acute(warm) cadmium equation applies to segments classified as Aquatic Life Warm Class 1 or 2. The acute(cold) cadmium equation applies to segments classified as Aquatic Life Cold Class 1 or 2.
- (6) For lakes and reservoirs, the chlorophyll a, total nitrogen, and total phosphorus standards for Aquatic Life and Recreation apply only to lakes and reservoirs greater than 25 acres in surface area. The chlorophyll a standard for Direct Use Water Supply (DUWS) applies to lakes and reservoirs of any size.
- (76) Unless the stable forms of chromium in a waterbody have been characterized and shown not to be predominantly chromium VI, data reported as the measurement of all valence states of chromium combined should be treated as chromium VI. In addition, in no case can the sum of the concentrations of chromium III and chromium VI or data reported as the measurement of all valence states of chromium combined exceed the water supply standards of 50 µg/L chromium in those waters classified for domestic water use.
- (87) Selenium is a bioaccumulative metal and subject to a range of toxicity values depending upon numerous site-specific variables.
- (98) Mountain whitefish-based summer temperature criteria [16.9 (ch), 21.2 (ac)] apply when and where spawning and sensitive early life stages of this species are known to occur.
- (109) Lake trout-based summer temperature criteria [16.6 (ch), 22.4 (ac)] apply where appropriate and necessary to protect lake trout from thermal impacts.

(4) Site-specific Standards, Assessment Locations, and Assessment Criteria

- (a) Upper South Platte Segment 6b, Chatfield Reservoir: Chlorophyll a Assessment Thresholds
- chlorophyll a= 11.2 µg/L, summer average, 1 in 5 year allowable exceedance frequency
phosphorus(Tot) = 0.035 mg/L, summer average, 1 in 5 year allowable exceedance frequency.
- (b) Upper South Platte Segment 16h: Selenium Standards and Assessment Locations
- Selenium Standards (µg/L):
- West Toll Gate Creek: Selenium(chronic)=50.6, Selenium(acute)=119.2
East Toll Gate Creek: Selenium(chronic)=14.3, Selenium(acute)=15.9
Toll Gate Creek: Selenium(chronic)=26.5, Selenium(acute)=29.5
- Selenium Assessment Locations:

- Toll Gate Creek (TG6): Downstream of the confluence of East and West Toll Gate Creeks, at 6th Avenue near the gage station.
 - East Toll Gate Creek (ET1): Upstream of the confluence with West Toll Gate Creek, at Chambers Road and 1st Avenue.
 - West Toll Gate Creek (WT1): Upstream of the confluence with East Toll Gate Creek, at 2nd Avenue.
- (c) Upper South Platte Segment 15 and Middle South Platte Segment 1a: Dissolved Oxygen and Ammonia Standards

Dissolved Oxygen Standards:

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

1-Day ^{1,2,3}	3.0 mg/L (acute)
7-Day Average ^{1,4,5}	5.0 mg/L

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

1-Day ^{1,2}	2.0 mg/L (acute)
7-Day Mean of Minimums ^{1,6}	2.5 mg/L
30-Day Average ^{1,4}	4.5 mg/L

Dissolved Oxygen Footnotes

1. For the purposes of determining attainment of the standards, dissolved oxygen measurements shall only be taken in the flowing portion of the stream and at mid-depth, at least six inches above the bottom of the channel. Dissolved oxygen measurements in man-made pools are not to be used for determination of attainment of the standards. All sampling protocols and test procedures shall be in accordance with procedures and protocols approved by the division.
2. 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 Older Life Stage (OLS) standards of 2.0 mg/L). However, if during the Early Life Stage (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.
3. In July, the dissolved oxygen level 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 2.
4. 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.

- 5 For Upper South Platte Segment 15, 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.
6. The 7-day mean minimum is the average of the daily minimums measured at the location on each day during any 7-day period.

Ammonia Standards:

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

Ammonia Warm Water = mg/L as N (Total)

Acute = TVS

Chronic =

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

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

- (d) Big Dry Creek Segment 1: Selenium Assessment Locations
 - bdc 1.5: Upstream of Broomfield Wastewater Treatment Plant
 - bdc 2.0: Upstream of Westminster Big Dry Creek Wastewater Treatment Facility
 - bdc 4.5: Upstream of Northglenn Wastewater Treatment Plant
- (e) Big Dry Creek Segment 2 (Standley Lake): Chlorophyll *a* Assessment Thresholds

Chlorophyll *a* = 4.4 µg/L, Mar-Nov average, 1 in 5 yr allowable exceedance frequency
- (f) Upper South Platte Segment 16i, Sand Creek from Toll Gate Creek to the confluence with the South Platte River: assessment locations for selenium and total mercury

Selenium Standards (µg/L):

Upper: Selenium(chronic)=38.2, Selenium(acute)=45.1

Lower: Selenium(chronic)=9.0, Selenium(acute)=TVS

Selenium Assessment Locations:

- Upper – (SWA): Downstream of the confluence of Sand Creek and Toll Gate Creek approximately 250 meters upstream of the Sand Creek Water Reuse Facility (SCWRF) discharge near the Peoria Street Bridge.
- Lower – (SW1): Above Suncor, approximately 60 meters upstream of the Union Pacific Railroad crossing and upstream of Brighton Boulevard.

Mercury Assessment Locations and Method:

- Sand Creek (SWP) – Downstream of the sheet piling drop structure located near the Brighton Blvd. Bridge.
- Sand Creek (SWP2-1) – Approximately 600 feet downstream of Suncor Outfall 003 and immediately upstream of the Burlington Ditch Siphon.
- Attainment of the standard below Brighton Blvd. shall be assessed using the weighted 85th percentile total mercury concentration from both assessment locations.

(g) Upper South Platte Segment 16g (Marcy Gulch): Selenium assessment

Determination of attainment of the chronic and acute selenium standards will be based on the 85th and 95th percentile, respectively, of paired samples taken the same day from from the two following locations:

- L29: Marcy Gulch upstream of Santa Fe Drive, immediately upstream of the Centennial Water & Sanitation District WWTF
- L36: Marcy Gulch upstream of the confluence with the South Platte River.

(h) Upper South Platte Segment 16j: Selenium standards (µg/L) and assessment

Lee Gulch: Selenium(chronic)=10, Selenium(acute)=TVS

Little's Creek: Selenium(chronic)=6, Selenium(acute)= TVS

Big Dry Creek: Selenium(chronic)=23, Selenium(acute)=26

Little Dry Creek: Selenium(chronic)=11, Selenium(acute)=TVS

Determination of attainment of the chronic and acute selenium standards will be based on the 85th and 95th percentile, respectively. The selenium assessment locations are:

- Lee Gulch: Upstream of the confluence with the South Platte River
- Little's Creek: Upstream of the confluence with the South Platte River
- Big Dry Creek: Upstream of the confluence with the South Platte River
- Little Dry Creek: Upstream of the confluence with the South Platte River

(i) Cherry Creek Segment 4b: Selenium standards ($\mu\text{g/L}$) and assessment

Upper Cottonwood Creek:

October–February Selenium(acute/chronic)=TVS/14.0
March–September Selenium(acute/chronic)=TVS/7.1

Lower Cottonwood Creek:

October–February Selenium(acute/chronic)=TVS/5.1
March–September Selenium(acute/chronic)=TVS

Break between Upper and Lower Cottonwood Creek is at the confluence with Lone Tree Creek.

Upper Lone Tree Creek:

October–February Selenium(acute/chronic)=41.0/37.2
March–September Selenium(acute/chronic)=19.3/19.0

Lower Lone Tree Creek: Selenium(acute/chronic)=TVS

Break between Upper and Lower Lone Tree Creek is at the ACCWA Lone Tree Facility Outfall.

Upper Windmill Creek: Selenium(acute/chronic)=TVS

Middle Windmill Creek:

October–February Selenium(acute/chronic)=TVS/15.1
March–September Selenium(acute/chronic)=TVS/8.4

Lower Windmill Creek: Selenium(acute/chronic)=TVS

Break between Upper, Middle and Lower Windmill Creek is at the assessment locations.

Determination of attainment of the chronic and acute selenium standards will be based on the 85th and 95th percentile, respectively.

- Upper Cottonwood Creek: From headwaters to confluence with Lone Tree Creek, to be assessed at CT-P2 — 39.605694, -104.84825. At Peoria St.
- Lower Cottonwood Creek: From confluence with Lone Tree Creek to terminus at Cherry Creek Reservoir, to be assessed at CT2-39.627861, -104.85025. West of Perimeter Road and south of bike path.
- Upper Lone Tree Creek: From headwaters to just above site LTC-3, to be assessed using data from LTC-1 and LTC-2
LTC-1 — 39.58435, -104.838017. Approximately 0.15 miles N of S. Revere Pkwy.
LTC-2 — 39.59685, -104.838217. Approximately 10 yards N of E. Peakview Ave.
- Lower Lone Tree Creek: From site LTC-3 to confluence with Cottonwood Creek, to be assessed using data from LTC-3 and LTC-4
LTC-3 — 39.604817, - 104.837083. Below ACWWA Lone Tree facility outfall.
LTC-4 — 39.614483, 104.840217. Downstream of confluence with Windmill Creek

- Upper Windmill Creek: From Headwaters to WC-1 — Site WC-1-39.574967, -104.830017. West of Potomac St and South of Broncos Pkwy.
 - Middle Windmill Creek: All sites between (but not including) WC-1 and WC-2. WC-1—39.574967, -104.830017. West of Potomac St and South of Broncos Pkwy. WC-2—39.59655, -104.821767. North of Cherry Creek Trail.
 - Lower Windmill Creek: From site WC-2 to confluence with Lone Tree Creek, to be assessed at WC-2-39.59655, -104.821767. North of Cherry Creek Trail.
- (j) Clear Creek Segment 5: Manganese assessment
- Below Woods Creek: West Fork of Clear Creek approximately 0.3 miles downstream of Berthoud Falls (39.771829°, -105.803418°).
 - Mouth of West Fork: West Fork of Clear Creek near County Road 257.
- (k) Big Dry Creek Segments 2, 3, 4a, 4b, 5a, and 5b: Ambient-based Site-specific Radionuclide Standards

The radionuclides listed in the table 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.

Parameter	Segment 2 (Standley Lake)¹	Segment 3 (Great Western Reservoir)¹	Segments 4a, 4b, 5a, and 5b¹
Ambient-based site-specific standards			
Gross Alpha	6	5	NA
Gross Beta	9	12	NA
Plutonium	0.03	0.03	0.15 ^{2,3}
Americium	0.03	0.03	0.15 ^{2,3}
Tritium	500	500	500
Uranium	3	4	16.8 µg/L
Other site-specific standards			
Curium	60	60	60
Neptunium	30	30	30

Radionuclides Footnotes:

1. Statewide standards also apply for radionuclides not listed above.
2. 0.15 pCi/L Statewide Basic Standards.
3. For plutonium and americium measurements in Segment 4a 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).

NA = No site-specific standard applies

(l) Upper South Platte Lakes Segment 19: Temperature Standards

Platte Canyon Reservoir:

DM and MWAT = CLL from 1/1 – 2/29
DM = CLL and MWAT = 25.0 from 3/1 – 12/31

Antero Reservoir:

DM and MWAT = CLL from 1/1 – 3/31
DM = CLL and MWAT = 19.6 from 4/1 – 12/31

Elevenmile Reservoir:

DM and MWAT = CLL from 1/1 – 3/31
DM = CLL and MWAT = 19.8 from 4/1 – 12/31

Spinney Mountain Reservoir:

DM and MWAT = CLL from 1/1 – 3/31
DM = CLL and MWAT = 20.2 from 4/1 – 12/31

Cheesman Reservoir:

DM and MWAT = CLL from 1/1 – 3/31
DM = CLL and MWAT = 21.9 from 4/1 – 12/31

Strontia Springs Reservoir:

DM and MWAT = CLL from 1/1 – 3/31
DM = CLL and MWAT = 22.6 from 4/1 – 12/31

Jefferson Lake:

DM and MWAT = CLL from 1/1 – 3/31
DM = 22.4 and MWAT = 16.6 from 4/1 – 12/31

All other locations DM and MWAT = CL, CLL year-round

(m) Cache la Poudre Segment 18: Temperature Standards

All locations DM and MWAT = CL, CLL from 1/1 – 3/31

Barnes Meadow Reservoir DM = CL and MWAT = 16.6 from 4/1 – 12/31

Chambers Lake DM = 22.4 and MWAT = 16.6 from 4/1 – 12/31

All other locations DM and MWAT = CL, CLL from 4/1 – 12/31

(n) Lower South Platte Segment 3: Temperature Standards

All locations DM and MWAT = WL from 1/1 – 3/31

North Sterling Reservoir DM = WL and MWAT = 26.1 from 4/1 – 12/31

Jumbo Reservoir DM = WL and MWAT = 27 from 4/1 – 12/31

Jackson Reservoir DM = WL and MWAT = 28.1 from 4/1 – 12/31

All other locations DM and MWAT = WL from 4/1 – 12/31

(5) Stream Classifications and Water Quality Standards Tables

The stream classifications and water quality standards tables in Appendix 38-1 are incorporated herein by reference.

The following is information regarding duration and measured form of standards in Appendix 38-1:

- (a) *E. coli* criteria and resulting standards for individual water segments, are established as indicators of the potential presence of pathogenic organisms. Standards for *E. coli* are expressed as a two-month geometric mean. Site-specific or seasonal standards are also two-month geometric means unless otherwise specified.
- ~~(b) — All phosphorus standards are based upon the concentration of total phosphorus.~~
- (~~e~~b) The pH standards of 6.5 (or 5.0) and 9.0 are an instantaneous minimum and maximum, respectively to be applied as effluent limits. In determining instream attainment of water quality standards for pH, appropriate averaging periods may be applied, provided that beneficial uses will be fully protected.
- (~~e~~c) All mercury standards apply to the total recoverable fraction of all forms, both organic and inorganic, of mercury in water.
- (~~e~~d) All ammonia, nitrate, and nitrite standards are based upon the concentration reported as nitrogen.

(6) Discharger-specific Variances

- (a) Upper South Platte River Segments 15 and 16i (COSPUS15 and COSPUS16i):

Discharger-Specific Variance, Suncor Energy (U.S.A.) Inc., Commerce City Refinery (CO0001147): Adopted 10/11/2016.

Selenium (acute) = TVS: no limit; Selenium (chronic) = 9: 24 µg/L. Expiration date: 12/31/2023.

- (b) Lower South Platte River Segment 2 (COSPLS02):

Discharger-specific Variance, Town of Crook (COG589015), Adopted 6/13/2022.

Ammonia (acute): Initial AEL=4 lbs/day, Final AEL=3.4 lbs/day;
Ammonia (chronic): Initial AEL=4 lbs/day, Final AEL=3.4 lbs/day.
Includes a Pollutant Minimization Program.
Expiration date: 12/31/2025.

38.8 – 38.9 RESERVED

38.106 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; NOVEMBER 14, 2022 RULEMAKING; FINAL ACTION _____; EFFECTIVE DATE APRIL 30, 2023

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

BASIS AND PURPOSE

A. Revision of Total Nitrogen and Total Phosphorus Table Value Standards for Lakes and Reservoirs at 31.17

In March 2012, the commission adopted interim numerical nutrient table value standards for chlorophyll *a* to protect the Aquatic Life, Recreation, and Direct Use Water Supply (DUWS) uses and table value standards for total nitrogen and total phosphorus to protect the Aquatic Life and Recreation uses (31.50) in lakes, reservoirs, rivers, and streams. In its July 2016 action letter for the March 2012 rulemaking hearing, EPA recommended revisiting the classification analysis for lakes and reservoirs to account for the variability between lakes (e.g., Cold and Warm lakes), evaluating confounding factors in the stressor-response relationship between nutrients and chlorophyll *a*, and evaluating whether the standards are protective of lakes with a high chlorophyll *a* yield per unit of nutrient.

In this hearing, the commission adopted revised total nitrogen and total phosphorus standards for lakes and reservoirs to address EPA's 2016 recommendations and ensure protective standards are adopted on lakes and reservoirs with Aquatic Life, Recreation, and/or DUWS uses (31.17 Table V). The numeric nutrient standards for total nitrogen and total phosphorus represent growing season (July through September) average concentrations with an allowable exceedance frequency is once in five years, and apply to lakes greater than 25 acres in size and with a residence time of at least 14 days. The commission adopted these standards into Regulation No. 31 and the basin regulations (Regulation Nos. 32-38) in this rulemaking; additional details about the revised total nitrogen and total phosphorus standards for lakes and reservoirs are included in 31.60.

B. Implementation of Nutrients Table Value Standards

The commission revised 38.5(4) to reflect the current status of the phased implementation framework for nutrients standards and remove information regarding implementation that concludes December 31, 2022. These revisions included removing language regarding phased implementation of chlorophyll *a* standards for lakes, reservoirs, rivers, and streams, as these standards now apply to all waterbodies with Aquatic Life, Recreation, and/or DUWS uses in Colorado. The information regarding the specific circumstances where nitrogen and phosphorus standards will apply before December 31, 2027 was clarified and includes additional references to 31.17. Also, to be consistent with past practice and the commission's intent in 31.55, the word "headwaters" was replaced with "waterbodies upstream of certain domestic and non-domestic wastewater treatment facilities". Finally, references to new Tables V (nutrients standards for lakes and reservoirs) and VI (nutrients standards for rivers and streams) in 31.17 were also added.

The commission revised the Table Value Standards table in 38.6(3) to include chlorophyll *a*, total nitrogen, and total phosphorus. Instead of replicating the numerical values for these table value standards, the table references 31.17, as 31.17 contains the numeric standards (in Tables V and VI), implementation information, and additional details regarding the phased implementation framework. As part of this change, the commission revised Footnote 1 to specify that the nitrogen and phosphorus standards are based upon the total concentration; this information was previously contained in 38.6(5)(b), which was deleted. Additionally, the commission adopted a new Footnote 6 that clarifies that, with the exception of the chlorophyll *a* standard to protect the DUWS sub-classification, the chlorophyll *a*, total nitrogen, and total phosphorus standards apply only to lakes and reservoirs larger than 25 acres surface

area. The chlorophyll a standard to protect DUWS lakes and reservoirs applies to lakes and reservoirs of all sizes. This information was previously included in the segment tables in Appendix 38-1, but was moved to Footnote 6 for clarity.

1. Nitrogen and Phosphorus Standards for Lakes, Reservoirs, Rivers, and Streams

a. Lakes and Reservoirs

Adoption of total phosphorus standards was previously limited to specific segments or portions of segments, as outlined in 31.50(VI)(A) (i.e., waterbodies above certain discharge facilities and site-specific situations where numeric standards were needed to protect uses). Prior to this rulemaking hearing, total nitrogen standards had not been adopted on any waterbodies. However, consistent with the phased implementation strategy developed in 2012 (31.50(VI)(A)) and 2017 (31.55), the commission expanded the adoption of the total phosphorus standards to also include all lake and reservoirs with the DUWS sub-classification and waterbodies with a public swim beach (defined as waterbodies with a natural swimming area per C.R.S § 25-5-801, including having a fee-based cordoned off swim area). The commission also adopted total nitrogen standards on the same set of waterbodies (i.e., waterbodies above certain discharge facilities, site-specific situations where numeric standards were needed to protect uses, DUWS, and swim beaches). Consistent with 31.17, the total phosphorus and total nitrogen standards apply only to lakes and reservoirs greater than 25 acres.

The commission previously adopted the DUWS sub-classification and notation in the Appendix 38-1 tables on several waterbodies in previous rulemaking hearings, but public swim beaches were identified in the current rulemaking. However, it was only necessary to specify the presence of a public swim beach in limited cases, because most public swim beaches in Colorado are also either classified as DUWS or located above certain discharge facilities; waterbodies falling into either of those categories are also assigned nitrogen and phosphorus standards. Therefore, the “Public Swim Beach” notation only needed to be applied to waterbodies where the total nitrogen and total phosphorus standards were only being applied due to the presence of a swim beach. Due to the presence of a public swim beach, the commission adopted total nitrogen and total phosphorus standards, “Public Swim Beach” in the Qualifier column, and a note to specify the swim beach reservoir in the Other column on the following segments:

Upper South Platte River: 6b (COSPUS06b; Chatfield Reservoir)

Cherry Creek: 2 (COSPCH02; Cherry Creek Reservoir)

Bear Creek: 11 (COSPBE11; Big Soda Reservoir)

St. Vrain Creek: 9 (COSPSV09; Union Reservoir)

Lower South Platte River: 3 (COSPLS03; North Sterling Reservoir)

b. Rivers and Streams

In rivers and streams, the commission did not adopt total phosphorus standards on any additional river or stream waterbodies or total nitrogen table value standards on any waterbodies, consistent with the phased implementation timeline outlined in 31.17 and 38.5(4).

c. Formatting of Nitrogen and Phosphorus Standards in Appendix 38-1

The commission changed how previously-adopted total phosphorus table value standards were presented in the segment tables in Appendix 38-1. Specifically, the table value standards were previously shown as numeric values, which were replaced with “TVS”. Similarly, any total nitrogen or total phosphorus standards adopted in this rulemaking hearing were adopted into the Appendix 38-1 tables as “TVS”. This approach allows the regulation to point directly to 31.17, which has a complete record of information regarding these table value standards.

2. Chlorophyll a Standards for Lakes, Reservoirs, Rivers, and Streams

The commission made no changes to the chlorophyll a standards to protect Aquatic Life, Recreation, and/or DUWS uses in lakes, reservoirs, rivers, or streams. In addition, the commission made no changes to existing site-specific chlorophyll a standards.

Adoption of chlorophyll a standards was previously limited to specific segments or portions of segments, as outlined in 31.50(VI)(A) (i.e., waterbodies above certain discharge facilities and site-specific situations where numeric standards were needed to protect uses). However, consistent with the phased implementation strategy developed in 2012 (31.50(VI)(A)) and 2017 (31.55), the commission expanded the adoption of chlorophyll a standards to all segments with Aquatic Life, Recreation, and/or DUWS uses.

Specifically, in this rulemaking hearing, the commission adopted the chlorophyll a table value standard of 8 µg/L for all cold water lakes or reservoirs (larger than 25 acres) with Aquatic Life or Recreation E, U, or P uses; 20 µg/L for all warm water lakes or reservoirs (larger than 25 acres) with Aquatic Life or Recreation E, U, or P uses; and 150 mg/m² for all cold or warm water streams with a Recreation E, U, or P use. In the segment tables in Appendix 38-1, these table value standards were adopted as “TVS” and any previously-adopted table value standards shown as numeric values were changed to “TVS”. This approach allows the regulation to point directly to 31.17, which has a complete record of information regarding these table value standards.

In addition, the commission adopted the table value standard of 5 µg/L for all lakes or reservoirs (of any size) with DUWS; in Appendix 38-1, these table value standards are shown as “DUWS”. The phased implementation of the chlorophyll a standards adoption is now complete.

3. Site-specific Standards for Nutrients

Cherry Creek Segment 7 (COSPCH07): The commission continues to support a phased implementation approach to adoption of nutrient criteria and declined to consider any site-specific standards during this rulemaking. However, evidence on the record attests that consideration of site-specific standards on some segments may be warranted in future commission reviews of water quality standards and classifications. Parker Water and Sanitation District (PWSD) submitted data indicating that an alternative chlorophyll a standard may be appropriate to protect the Direct Use Water Supply use for Rueter-Hess Reservoir (COSPCH07) based on site-specific relationships between chlorophyll a, dissolved organic carbon, and disinfection byproducts (PWSD Exhibit XX).

The commission appreciates the efforts of PWSD to obtain, and make available for this hearing, data that improve the understanding of existing conditions within and treatment of raw water from Rueter-Hess Reservoir and understands that PWSD will not face unreasonable consequences by delaying consideration of any appropriate revisions to the chlorophyll a standard to a future date. The division is committed to supporting PWSD’s efforts to develop an appropriate site-specific standard for Rueter-Hess Reservoir as resources become available and practical implications are considered. The division’s efforts to support the development of a site-specific standard will

include coordination of interdisciplinary staff from across the division, including drinking water, engineering, and water quality, as well as the toxicology and environmental epidemiology office.

4. Control Regulations

The commission may consider revised site-specific nutrients standards for the following lake and reservoir segments that have existing nutrient control regulations in future rulemaking hearings if information to support appropriate and protective revisions is developed:

Upper South Platte River: 6b (COSPUS06b; Chatfield Reservoir)

Cherry Creek: 2 (COSPC02; Cherry Creek Reservoir)

[This text is in development and will be included in Consolidated Proposal]

C. Clarifications and Corrections

The following edits were made to Appendix 38-1 to improve clarity and correct errors:

- The Direct Use Water Supply (DUWS) references in segments in Appendix 38-1 were revised to improve clarity and consistency.
- In Appendix 38-1, on Middle South Platte River Segment 8 (COSPMS08), the notes in the "Other" column regarding chlorophyll *a* and phosphorus standards applying only above facilities listed in 38.5(4) are unnecessary. These notes were adopted in error, as the only waterbody in this segment (Riverside Reservoir) is not below any facilities listed in 38.5(4).

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

5 CCR 1002-38

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

**APPENDIX 38-1
Stream Classifications and Water Quality Standards Tables**

Effective ~~09/30/2022~~04/30/2023

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
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 #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper South Platte River Basin

1a. Mainstem of the South Platte River from the source of the South and Middle Forks to the inlet of Cheesman Reservoir.							
COSPUS01A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I*	CS-I*	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div> <div>*Temperature = summer criteria apply from 4/1-10/31</div>		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
		1b. All tributaries to the South Platte River, including wetlands within the Lost Creek and Mt. Evans Wilderness Areas.					
COSPUS01B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 38.5(3) for details.		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
*Uranium(chronic) = See 38.5(3) for details.		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.

T = total recoverable

t = total

tr = trout

D.O. = dissolved oxygen

DM = daily maximum

MWAT = maximum weekly average temperature

See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper South Platte River Basin

2a. All tributaries to the South Platte River system, including all wetlands from the headwaters of the South and Middle Forks to a point immediately below the confluence with Tarryall Creek except for listings in Segment 1b, 2b and 2c.

COSPUS02A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 *TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div>		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

2b. Mainstem of Mosquito Creek from Road #698 (39.270971, -106.098846) to its confluence with the Middle Fork of the South Platte River.

COSPUS02B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
*Uranium(acute) = See 38.5(3) for details.			acute	chronic	Iron(T)	---	1000
*Uranium(chronic) = See 38.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	---	220

All metals are dissolved unless otherwise noted.

T = total recoverable

t = total

tr = trout

D.O. = dissolved oxygen

DM = daily maximum

MWAT = maximum weekly average temperature

See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper South Platte River Basin

2c. South Mosquito Creek from the source to confluence with Mosquito Creek, Mosquito Creek from the confluence with South Mosquito Creek to Road #698 (39.270971, -106.098846), and No Name Creek from the source to the confluence with South Mosquito Creek.

COSPUS02C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m²)	---	150 TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
					Iron(T)	---	1000
		Inorganic (mg/L)			Lead	TVS	TVS
		acute		chronic	Manganese	TVS	TVS
		Ammonia	TVS	TVS	Mercury(T)	---	0.01
		Boron	---	0.75	Molybdenum(T)	---	150
		Chloride	---	250	Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005	---	Silver	TVS	TVS(tr)
		Nitrate	100	---	Uranium	varies*	varies*
		Nitrite	---	0.05	Zinc	---	280
		Phosphorus	---	0.14 TVS			
Sulfate	---	---					
Sulfide	---	0.002					

3. All tributaries to the South Platte River, including all 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 listings in Segment 1b.

COSPUS03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 <u>TVS</u>	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4).		Inorganic (mg/L)			Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		acute		chronic	Iron(T)	---	1000
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 <u>TVS</u> *	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.

T = total recoverable

t = total

tr = trout

D.O. = dissolved oxygen

DM = daily maximum

MWAT = maximum weekly average temperature

See 38.6 for further details on applied standards.

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

4. Mainstem of the North Fork of the South Platte River, including all tributaries and wetlands from the source to the confluence with the South Platte River, except for listings in Segments 1b, 5a, 5b, and 5c.

COSPUS04	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute		chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m ²)	---	450*TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
				acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.44TVS*	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
Sulfide	---	0.002	Uranium	varies*	varies*			
			Zinc	TVS	TVS			

5a. Mainstem of Geneva Creek from the source to the confluence with Scott Gomer Creek.

COSPUS05A	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	7.6		
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	---	---	
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		D.O. (spawning)	---	7.0	Cadmium(T)	---	2	
		pH	3.5-9.0	---	Chromium III	---	---	
		chlorophyll a (mg/m²)	---	150TVS	Chromium III(T)	---	100	
		E. coli (per 100 mL)	---	126	Chromium VI	---	---	
					Chromium VI(T)	---	25	
		Inorganic (mg/L)			Copper	---	18	
					Iron(T)	---	1200	
					Lead	---	---	
					Lead(T)	---	4	
					Manganese	---	530	
					Mercury(T)	---	0.05	
					Molybdenum(T)	---	150	
					Nickel	---	---	
					Nickel(T)	---	50	
					Selenium	---	---	
					Selenium(T)	---	4.6	
					Silver	---	---	
					Silver(T)	---	1	
					Uranium	varies*	varies*	
					Zinc	---	190	

All metals are dissolved unless otherwise noted.

T = total recoverable

t = total

tr = trout

D.O. = dissolved oxygen

DM = daily maximum

MWAT = maximum weekly average temperature

See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper South Platte River Basin

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 wetlands from source to confluence with the North Fork of the South Platte River.

COSPUS05B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

5c. Mainstem of Gooseberry Gulch and all tributaries from source to Sunset Trail.

COSPUS05C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation U	acute		chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (mg/m²)	---	TVS	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)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen

DM = daily maximum

MWAT = maximum weekly average temperature

See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper South Platte River Basin

5d. Mainstem of Gooseberry Gulch and all tributaries from Sunset Trail to confluence with Elk Creek.						
COSPUS05D	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340
	Recreation U	acute	chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (mg/m ²)	---	TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
					Copper	TVS
		Inorganic (mg/L)			Iron	---
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	---	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

6a. Mainstem of the South Platte River from the outlet of Cheesman Reservoir to the inlet of Chatfield Reservoir.						
COSPUS06A	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (mg/m ²)	---	TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
					Copper	TVS
		Inorganic (mg/L)			Iron	---
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	---	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper South Platte River Basin

6b. Chatfield Reservoir								
COSPUS06B	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute		chronic		
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---	
	Recreation E		acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers: <u>Public Swim Beach*</u>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *chlorophyll a (ug/L)(chronic) = measured through samples that are representative of the mixed layer during July-Sept, with an allowable exceedance frequency of 1in 5 yrs. See section 38.6(4) for assessment thresholds. *Phosphorus(chronic) = See section 38.6(4) for assessment thresholds. <u>*Public Swim Beach applies to Chatfield Reservoir.</u> *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details. *Temperature = DM=CLL and MWAT=CLL from 1/1-3/31 DM=CLL and MWAT=23.5 from 4/1-12/31		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (ug/L)	7/1 - 9/30	---	10*	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
					Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		<u>Nitrogen</u>	---	<u>TVS</u>	Selenium	TVS	TVS	
		Phosphorus	---	0.03*	Silver	TVS	TVS(tr)	
		Sulfate	---	WS	Uranium	varies*	varies*	
Sulfide	---	0.002	Zinc	TVS	TVS			
7. All tributaries to the South Platte River, including all 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 listings in Segments 8, 9, 10, 11, 12, and 13.								
COSPUS07	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute		chronic		
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---	
	Recreation E		acute	chronic	Arsenic(T)	---	0.02-10 ^A	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
					Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
			Zinc	TVS	TVS			

All metals are dissolved unless otherwise noted.

T = total recoverable

t = total

tr = trout

D.O. = dissolved oxygen

DM = daily maximum

MWAT = maximum weekly average temperature

See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper South Platte River Basin

8. Mainstems of East and West Plum Creek from the source to the boundary of National Forest lands, including all tributaries and wetlands within the Plum Creek drainage which are on National Forest Lands, except for the listing in Segment 9.

COSPUS08	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

9. Mainstem of Bear Creek, including all tributaries and wetlands from the source to the inlet of Perry Park Reservoir, a.k.a. Waucondah Reservoir (Douglas County).

COSPUS09	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 38.5(3) for details.		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
*Uranium(chronic) = See 38.5(3) for details.		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper South Platte River Basin

10. Mainstems of East Plum Creek, West Plum Creek, and Plum Creek from the boundary of National Forest lands to Chatfield Reservoir, mainstems of Stark Creek and Gove Creek from the boundary of National Forest lands to their confluence.

COSPUS10	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m ²)	---	450 [*] TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute		chronic	Copper	TVS	TVS
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div>		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.47 [*] TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

11a. All tributaries to the East Plum Creek system, including all wetlands which are not on national forest lands.

COSPUS11A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02-10 ^A	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (mg/m²)	---	450TVS	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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.47TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen

DM = daily maximum

MWAT = maximum weekly average temperature

See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper South Platte River Basin

11b. All tributaries to the West Plum Creek system, including all wetlands, which are not on national forest lands, except for listings in Segments 9 and 12.					
COSPUS11B	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-I WS-I	Arsenic	340 ---
	Water Supply	acute	chronic	Arsenic(T)	--- 0.02-10 ^A
	Recreation E	D.O. (mg/L)	--- 5.0	Cadmium	TVS TVS
Qualifiers:		pH	6.5 - 9.0 ---	Cadmium(T)	5.0 ---
Other: *chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (mg/m ²)	--- 150 TVS	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	--- 0.5	Molybdenum(T)	--- 150
		Phosphorus	--- 0.17 TVS*	Nickel	TVS TVS
		Sulfate	--- WS	Nickel(T)	--- 100
		Sulfide	--- 0.002	Selenium	TVS TVS
				Silver	TVS TVS
				Uranium	varies* varies*
				Zinc	TVS TVS
12. Mainstem of Garber Creek and Jackson Creek from the boundary of National Forest lands to the confluence with West Plum Creek; mainstem of Bear Creek from the outlet of Perry Park Reservoir, a.k.a. Waucondah Reservoir, to the confluence with West Plum Creek.					
COSPUS12	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Warm 1	Temperature °C	WS-I WS-I	Arsenic	340 ---
	Recreation E	acute	chronic	Arsenic(T)	--- 0.02
	Water Supply	D.O. (mg/L)	--- 5.0	Cadmium	TVS TVS
Qualifiers:		pH	6.5 - 9.0 ---	Cadmium(T)	5.0 ---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (mg/m ²)	--- 150 TVS	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	--- 0.5	Molybdenum(T)	--- 150
		Phosphorus	--- 0.17 TVS	Nickel	TVS TVS
		Sulfate	--- WS	Nickel(T)	--- 100
		Sulfide	--- 0.002	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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper South Platte River Basin

13. Mainstem of Deer Creek, including the North and South Forks, from the source to Chatfield Reservoir.

COSPUS13	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
*Uranium(acute) = See 38.5(3) for details.		acute		chronic	Iron(T)	---	1000
*Uranium(chronic) = See 38.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

14. Mainstem of the South Platte River from the outlet of Chatfield Reservoir to the Burlington Ditch diversion in Denver, Colorado.

COSPUS14	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 1	Temperature °C	WS-I*	WS-I*	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m ²)	---	TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute		chronic	Copper	---	TVS*
Copper(acute) = Copper BLM-based FMB		Ammonia	TVS	TVS	Copper	TVS	---
Cu FMB(ac)=31.5 ug/l		Boron	---	0.75	Iron	---	WS
downstream of Marcy Gulch.		Chloride	---	250	Iron(T)	---	1000
*Copper(chronic) = Copper BLM-based FMB		Chlorine	0.019	0.011	Lead	TVS	TVS
Cu FMB(ch)=20.8 ug/l		Cyanide	0.005	---	Lead(T)	50	---
downstream of Marcy Gulch.		Nitrate	10	---	Manganese	TVS	TVS/190
*Uranium(acute) = See 38.5(3) for details.		Nitrite	---	0.5	Mercury(T)	---	0.01
*Uranium(chronic) = See 38.5(3) for details.		Phosphorus	---	---	Molybdenum(T)	---	150
*Temperature = summer criteria apply from 2/14 - 11/30		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

D.O. = dissolved oxygen

DM = daily maximum

MWAT = maximum weekly average temperature

See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper South Platte River Basin

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.						
COSPUS15	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	varies*	varies*	Cadmium	TVS
Qualifiers:		pH	6.0-9.0*	---	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 Discharger Specific Variance(s): Selenium(acute) = TVS: no limit Selenium(chronic) = TVS: 24 µg/L Expiration Date of 12/31/2023 *Ammonia(acute) = See section 38.6(4) for site-specific standards. *Ammonia(chronic) = See section 38.6(4) for site-specific standards. *Copper(acute) = Copper BLM-based FMB Cu FMB(ac)=26.4 ug/l Downstream of the Metro Hite WWTF outfall. *Copper(chronic) = Copper BLM-based FMB Cu FMB(ch)= 18.0 ug/l Downstream of the Metro Hite WWTF outfall. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details. *D.O. (mg/L)(acute) = See section 38.6(4) for site-specific standards. *D.O. (mg/L)(chronic) = See section 38.6(4) for site-specific standards. *pH(acute) = 6.0 - 9.0 from 64th Ave. downstream 2 miles *Variance: Selenium = see 38.6(6) for details.		chlorophyll a (mg/m ²)	---	TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	---	TVS*
		acute	chronic	Copper	TVS*	---
		Ammonia	TVS*	TVS*	Iron	---
		Boron	---	0.75	Iron(T)	---
		Chloride	---	250	Lead	TVS
		Chlorine	0.019	0.011	Lead(T)	50
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	1.0	---	Molybdenum(T)	---
		Phosphorus	---	---	Nickel	TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	TVS
16a. Mainstem of Sand Creek from the confluence of Murphy and Coal Creek in Arapahoe County to the confluence with the Toll Gate Creek.						
COSPUS16A	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340
	Water Supply	acute	chronic	Arsenic(T)	---	0.02-10 ^A
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Other:		chlorophyll a (mg/m ²)	---	TVS	Chromium III	---
*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		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	---
		Boron	---	0.75	Iron(T)	---
		Chloride	---	250	Lead	TVS
		Chlorine	0.019	0.011	Lead(T)	50
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	---	0.5	Molybdenum(T)	---
		Phosphorus	---	---	Nickel	TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	TVS

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper South Platte River Basin

16b. Aurora Reservoir.							
COSPUS16B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
	DUWS	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Qualifiers:		chlorophyll a (ug/L)	---	---DUWS	Chromium III	---	TVS
Other:		chlorophyll a (ug/L)	---	TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Iron	---	WS
*Uranium(acute) = See 38.5(3) for details.		acute	chronic	Iron(T)	---	1000	
*Uranium(chronic) = See 38.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.5	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	---TVS	Silver	TVS	TVS
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS
16c. All tributaries to the South Platte River, including all wetlands, from the outlet of Chatfield Reservoir, to a point immediately below the confluence with Big Dry Creek, except for listings in the subbasins of the South Platte River, and in Segments 16a, 16d, 16e, 16f, 16g, 16h, 16i, 16j, and 16k.							
COSPUS16C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	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
*chlorophyll a (mg/m³)(chronic) = applies only above the facilities listed at 38.5(4).		chlorophyll a (mg/m²)	---	150*TVS	Chromium III(T)	---	100
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Inorganic (mg/L)			Copper	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.		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	---	0.5	Silver	TVS	TVS
		Phosphorus	---	0.4*TVS	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

16c. All tributaries to the South Platte River, including all wetlands, from the outlet of Chatfield Reservoir, to a point immediately below the confluence with Big Dry Creek, except for listings in the subbasins of the South Platte River, and in Segments 16a, 16d, 16e, 16f, 16g, 16h, 16i, 16j, and 16k.

COSPUS16C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: *chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m ²)	---	150 *TVS	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	---	0.5	Silver	TVS	TVS
		Phosphorus	---	0.47 TVS*	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper South Platte River Basin

16d. Second Creek from the source to the O'Brian Canal at 39.898789, 104.817661.							
COSPUS16D	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	3.3*	Cadmium	TVS	TVS
Other: *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details. *D.O. (mg/L)(chronic) = 15th percentile of D.O. measurements collected between 6:30 a.m. and 6:30 p.m.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m²)	---	450*TVS	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	---	0.5	Silver	TVS	TVS
		Phosphorus	---	0.47TVS*	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			
16e. Third Creek from the source to the O'Brian Canal at 39.917346, -104.784028.							
COSPUS16E	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Water Supply	acute	chronic		Arsenic(T)	---	0.02-10 A
	Recreation E	D.O. (mg/L)	---	4.0*	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details. *D.O. (mg/L)(chronic) = 15th percentile of D.O. measurements collected between 6:30 a.m. and 6:30 p.m.		chlorophyll a (mg/m²)	---	TVS	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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
			Uranium	varies*	varies*		
			Zinc	TVS	TVS		

16e. Third Creek from the source to the O'Brian Canal at 39.917346, -104.784028.							
COSPUS16E Classifications		Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Water Supply	acute	chronic	Arsenic(T)	---	0.02-10	A
	Recreation E	D.O. (mg/L)	---	4.0*	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details. *D.O. (mg/L)(chronic) = 15th percentile of D.O. measurements collected between 6:30 a.m. and 6:30 p.m.		chlorophyll a (mg/m²)	---	TVS	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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper South Platte River Basin

16f. Barr Lake Tributary from the source to the Denver Hudson Canal at 39.941142, -104.748387.

COSPUS16F	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	narrative*	Cadmium	TVS	TVS
Other: *chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details. *D.O. (mg/L)(chronic) = When water is present, D.O. concentrations shall be maintained at levels that protect classified uses.	pH	6.5 - 9.0	---	Chromium III	TVS	TVS	
	chlorophyll a (mg/m ²)	---	450*TVS	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	---	0.5	Silver	TVS	TVS	
	Phosphorus	---	0.47TVS*	Uranium	varies*	varies*	
	Sulfate	---	---	Zinc	TVS	TVS	
	Sulfide	---	0.002				

16g. Marcy Gulch, including all wetlands from the source to the confluence with the South Platte.

COSPUS16G	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	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):		chlorophyll a (mg/m²)	---	—TVS—	Chromium III(T)	---	100
temperature(MWAT) = current condition*		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2025		Inorganic (mg/L)			Copper	—TVS*	TVS*---
Copper(acute) = Copper BLM-based FMB Cu FMB(ac)=67.1 ug/l		acute		chronic	Copper	TVS---	—TVS*
below the Centennial WWTF.		Ammonia	TVS	TVS	Iron(T)	---	1000
*Copper(chronic) = Copper BLM-based FMB Cu FMB(ch)=43.3 ug/l		Boron	---	0.75	Lead	TVS	TVS
below the Centennial WWTF.		Chloride	---	---	Manganese	TVS	TVS
*Selenium(acute) = See section 38.6(4)(b) for assessment locations.		Chlorine	0.019	0.011	Mercury(T)	---	0.01
*Selenium(chronic) = See section 38.6(4)(b) for assessment locations.		Cyanide	0.005	---	Molybdenum(T)	---	150
*Uranium(acute) = See 38.5(3) for details.		Nitrate	100	---	Nickel	TVS	TVS
Uranium(chronic) = See 38.5(3) for details.		Nitrite	---	0.5	Selenium	21	13*
*TempMod: temperature(12/1 - 2/29) = downstream of Centennial WWTF. Adopted 6/8/2009		Phosphorus	---	---	Silver	TVS	TVS
		Sulfate	---	---	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS

Temporary Modification(s):
 temperature(MWAT) = current condition*
 12/1 - 2/29
 Expiration Date of 12/31/2025

*Copper(acute) = Copper BLM-based FMB
 Cu FMB(ac)=67.1 ug/l
 below the Centennial WWTF.
 *Copper(chronic) = Copper BLM-based FMB
 Cu FMB(ch)=43.3 ug/l
 below the Centennial WWTF.
 *Selenium(acute) = See section 38.6(4)(b) for
 assessment locations.
 *Selenium(chronic) = See section 38.6(4)(b) for
 assessment locations.
 *Uranium(acute) = See 38.5(3) for details.
 *Uranium(chronic) = See 38.5(3) for details.
 *TempMod: temperature(12/1 - 2/29) = downstream
 of Centennial WWTF. Adopted 6/8/2009

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper South Platte River Basin

16h. Mainstem of West Toll Gate Creek, including all tributaries and wetlands, upstream of the confluence with East Toll Gate Creek. Mainstem of East Toll Gate Creek, including all tributaries and wetlands, upstream of the confluence with West Toll Gate Creek. Mainstem of Toll Gate Creek, downstream of the confluence of East and West Toll Gate Creeks, to the confluence with Sand Creek.

COSPUS16H	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Fish Ingestion Standards		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
Other:		chlorophyll a (mg/m ²)	---	<u>450*TVS</u>	Chromium III(T)	---	100
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Selenium(acute) = See section 38.6(4)(b) for selenium standards and assessment locations.</div> <div>*Selenium(chronic) = See section 38.6(4)(b) for selenium standards and assessment locations.</div> <div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div>		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	varies*	varies*
		Nitrite	---	0.5	Silver	TVS	TVS
		Phosphorus	---	<u>0.17TVS*</u>	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

16i. Mainstem of Sand Creek from the confluence with Toll Gate Creek to the confluence with the South Platte River.

COSPUS16I	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: Discharger Specific Variance(s): Selenium(acute) = TVS: no limit Selenium(chronic) = 9: 24 µg/L Expiration Date of 12/31/2023 *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Mercury(T)(chronic) = 0.026 below Brighton Blvd, see section 38.6(4)(f) for mercury assessment locations *Selenium(acute) = See section 38.6(4)(f) for selenium standards and assessment locations. *Selenium(chronic) = See section 38.6(4)(f) for selenium standards and assessment locations. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details. *Variance: Selenium = see 38.6(6) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m ²)	---	450*TVS	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)	---	0.026*
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	100	---	Nickel	TVS	TVS
		Nitrite	---	0.5	Selenium	---	varies*
		Phosphorus	---	0.17TVS*	Selenium	varies*	---
		Sulfate	---	---	Silver	TVS	TVS
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper South Platte River Basin

16j. Lee Gulch, Little's Creek, Big Dry Creek (Douglas and Arapahoe Counties), and Little Dry Creek, including all wetlands from the source to the confluence with the South Platte.								
COSPUS16J	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02-10 ^A		
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
Other: *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Selenium(acute) = See section 38.6(4)(h) for selenium standards and assessment locations. *Selenium(chronic) = See section 38.6(4)(h) for selenium standards and assessment locations. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (mg/m ²)	---	150 <u>TVS</u>	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	---	0.5	Molybdenum(T)	---	150	
		Phosphorus	---	0.47 <u>TVS</u> *	Nickel	TVS	TVS	
		Sulfate	---	WS	Nickel(T)	---	100	
		Sulfide	---	0.002	Selenium	varies*	varies*	
					Silver	TVS	TVS	
					Uranium	varies*	varies*	
					Zinc	TVS	TVS	
		16k. Mainstem of Lakewood Gulch from the source to the confluence with the South Platte.						
		COSPUS16K	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---	
	Water Supply	acute	chronic	Arsenic(T)	---	0.02		
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (mg/m ²)	---	150 <u>TVS</u>	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	---	0.5	Molybdenum(T)	---	150	
		Phosphorus	---	0.47 <u>TVS</u> *	Nickel	TVS	TVS	
		Sulfate	---	WS	Nickel(T)	---	100	
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper South Platte River Basin

17a. Washington Park Lakes, City Park Lakes, Rocky Mountain Lake, Berkely Lake.						
COSPUS17A	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340
	Recreation E	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 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.	chlorophyll a (ug/L)	---	TVS	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	---	0.5	Silver	TVS	TVS
	Phosphorus	---	---	Uranium	varies*	varies*
	Sulfate	---	---	Zinc	TVS	TVS
	Sulfide	---	0.002			

17b. Sloan's Lake.						
COSPUS17B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340
	Recreation E	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 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.	chlorophyll a (ug/L)	---	TVS	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	---	0.5	Silver	TVS	TVS
	Phosphorus	---	---	Uranium	varies*	varies*
	Sulfate	---	---	Zinc	TVS	TVS
	Sulfide	---	0.002			

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 38.6 for further details on applied standards.

Upper South Platte River Basin

17c. Bowles Lake, a.k.a. Patrick Reservoir or Bow Mar Lake.						
COSPUS17C	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT	acute	chronic
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Aluminum	TVS
	Recreation E		acute	chronic	Arsenic	340
Qualifiers:		D.O. (mg/L)	---	5.0	Arsenic(T)	---
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		D.O. (spawning)	---	7.0	Cadmium	TVS
		pH	6.5 - 9.0	---	Chromium III	TVS
		chlorophyll a (ug/L)	---	—TVS -	Chromium III(T)	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
					Copper	TVS
			Inorganic (mg/L)		Iron(T)	---
			acute	chronic	Lead	TVS
		Ammonia	TVS	TVS	Manganese	TVS
		Boron	---	0.75	Mercury(T)	---
		Chloride	---	---	Molybdenum(T)	---
		Chlorine	0.019	0.011	Nickel	TVS
		Cyanide	0.005	---	Selenium	TVS
		Nitrate	100	---	Silver	TVS
		Nitrite	---	0.5	Uranium	varies*
		Phosphorus	---	---	Zinc	TVS
		Sulfate	---	---		
		Sulfide	---	0.002		
		18. Lakes and reservoirs within the boundaries of the Lost Creek and Mt. Evans Wilderness areas.				
COSPUS18	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Water Supply		DM	MWAT	acute	chronic
OW	Agriculture	Temperature °C	CL	CL	Arsenic	340
	Aq Life Cold 1		acute	chronic	Arsenic(T)	---
	Recreation E	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other: *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
					Copper	TVS
			Inorganic (mg/L)		Iron	---
			acute	chronic	Iron(T)	---
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Nitrogen	---	TVS	Selenium	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS
		Sulfate	---	WS	Uranium	varies*
		Sulfide	---	0.002	Zinc	TVS

T = total recoverable

```
tr = trout
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DM = daily maximum

MWAT = maximum weekly average temperature

See 38.6 for further details on applied standards.

DOI: 10.1002/for

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper South Platte River Basin

19. Lakes and reservoirs in the South Platte River system from headwaters to Chatfield Reservoir, except for listings in Segment 18. Includes Antero, Spinney Mountain, Elevenmile, Cheesman, and Strontia Springs.

COSPUS19	Classifications	Physical and Biological			Metals (ug/L)					
Designation	Agriculture	DM		MWAT	acute		chronic			
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---			
	Recreation E		acute	chronic	Arsenic(T)	---	0.02			
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS			
	DUWS*	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---			
		pH	6.5 - 9.0	---	Chromium III	---	TVS			
Qualifiers:					Chlorophyll a (ug/L)	---	8*DUWS	Chromium III(T)	50	---
Other:					chlorophyll a (ug/L)	---	TVS	Chromium VI	TVS	TVS
Temporary Modification(s):					E. coli (per 100 mL)	---	126	Copper	TVS	TVS
Arsenic(chronic) = hybrid					Inorganic (mg/L)			Iron	---	WS
Expiration Date of 12/31/2024						acute	chronic	Iron(T)	---	1000
<p><u>*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.*Classification: DUWS applies to Strontia Springs Reservoir and Woodland Park Reservoir.</u></p> <p><u>*Classification: DUWSNitrogen(chronic) = applies to Strontia Springs and Woodland Park Reservoir only, above the facilities listed at 38.5(4) and in DUWS waterbodies.</u></p> <p><u>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.) and in DUWS waterbodies.</u></p> <p>*Uranium(acute) = See 38.5(3) for details.</p> <p>*Uranium(chronic) = See 38.5(3) for details.</p> <p>*Temperature =</p> <p>See 38.6(4) for temperature standards.</p>		Ammonia	TVS	TVS	Lead	TVS	TVS			
		Boron	---	0.75	Lead(T)	50	---			
		Chloride	---	250	Manganese	TVS	TVS/WS			
		Chlorine	0.019	0.011	Mercury(T)	---	0.01			
		Cyanide	0.005	---	Molybdenum(T)	---	150			
		Nitrate	10	---	Nickel	TVS	TVS			
		Nitrite	---	0.05	Nickel(T)	---	100			
		Nitrogen	---	TVS*	Selenium	TVS	TVS			
		Phosphorus	---	0.025TVS*	Silver	TVS	TVS(tr)			
		Sulfate	---	WS	Uranium	varies*	varies*			
		Sulfide	---	0.002	Zinc	TVS	TVS			

20. Lakes and reservoirs in the Plum Creek system within National Forest boundaries; and lakes and reservoirs in the Bear Creek drainage between the National Forest boundary and to the inlet of Perry Park Reservoir, a.k.a. Waucondah Reservoir (Douglas County).

COSPUS20	Classifications	Physical and Biological		Metals (ug/L)				
Designation	Agriculture	DM	MWAT	acute		chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (ug/L)	---	TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
				Copper	TVS	TVS		
		Inorganic (mg/L)		Iron	---	WS		
				acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	---	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	

All metals are dissolved unless otherwise noted.

T = total recoverable

t = total

tr = trout

D.O. = dissolved oxygen

DM = daily maximum

MWAT = maximum weekly average temperature

See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper South Platte River Basin

21. Lakes and reservoirs in the Plum Creek system except for listings in Segment 20.						
COSPUS21	Classifications	Physical and Biological		Metals (ug/L)		
Designation	DUWS*	DM	MWAT	acute	chronic	
Reviewable	Agriculture	WL	WL	Arsenic	340	---
	Aq Life Warm 2	acute	chronic	Arsenic(T)	---	0.02-10 ^A
	Recreation E	D.O. (mg/L)	5.0	Cadmium	TVS	TVS
	Water Supply	pH	6.5 - 9.0	Cadmium(T)	5.0	---
Qualifiers:		chlorophyll a (ug/L)	--- DUWS	Chromium III	---	TVS
Other:		chlorophyll a (ug/L)	--- <u>TVS</u>	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	Chromium VI	TVS	TVS
			126	Copper	TVS	TVS
		Inorganic (mg/L)		Iron	---	WS
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	Lead	TVS	TVS
		Boron	---	Lead(T)	50	---
		Chloride	---	Manganese	TVS	TVS/WS
		Chlorine	0.019	Mercury(T)	---	0.01
		Cyanide	0.005	Molybdenum(T)	---	150
		Nitrate	10	Nickel	TVS	TVS
		Nitrite	---	Nickel(T)	---	100
		Nitrogen	--- TVS*	Selenium	TVS	TVS
		Phosphorus	---	Silver	TVS	TVS
		Sulfate	---	Uranium	varies*	varies*
		Sulfide	---	Zinc	TVS	TVS
			0.002			

*Classification: DUWS applies to Aurora Rampart only Reservoir.
 *Nitrogen(chronic) = applies only to DUWS waterbodies
 *Phosphorus(chronic) = applies only to DUWS waterbodies
 *Uranium(acute) = See 38.5(3) for details.
 *Uranium(chronic) = See 38.5(3) for details.

22a. Lakes and reservoirs in watersheds tributary to the South Platte River from the outlet of Chatfield Reservoir to a point immediately below the confluence with Big Dry Creek, except for listings in the subbasins of the South Platte River, and in Segments 16b, 17a, 17b, 17c, 22b, and 23.						
COSPUS22A	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 2	WL	WL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	5.0	Cadmium	TVS	TVS
	DUWS*	pH	6.5 - 9.0	Cadmium(T)	5.0	---
Qualifiers:		chlorophyll a (ug/L)	--- DUWS	Chromium III	---	TVS
Water + Fish Standards		chlorophyll a (ug/L)	--- <u>TVS</u>	Chromium III(T)	50	---
Other:		E. coli (per 100 mL)	---	Chromium VI	TVS	TVS
			126	Copper	TVS	TVS
		Inorganic (mg/L)		Iron	---	WS
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	Lead	TVS	TVS
		Boron	---	Lead(T)	50	---
		Chloride	---	Manganese	TVS	TVS/WS
		Chlorine	0.019	Mercury(T)	---	0.01
		Cyanide	0.005	Molybdenum(T)	---	150
		Nitrate	10	Molybdenum(T)	---	210*
		Nitrite	---	Nickel	TVS	TVS
		Nitrogen	--- TVS*	Nickel(T)	---	100
		Phosphorus	---	Selenium	TVS	TVS
		Sulfate	---	Silver	TVS	TVS
		Sulfide	---	Uranium	varies*	varies*
			0.002	Zinc	TVS	TVS

Temporary Modification(s):
 Arsenic(chronic) = hybrid
 Expiration Date of 12/31/2024

*Classification: DUWS applies to McLellan Reservoir, Quincy Reservoir, and Marshall Reservoir only.
 *Nitrogen(chronic) = applies only to DUWS waterbodies
 *Phosphorus(chronic) = applies only to DUWS waterbodies
 *Molybdenum(T)(chronic) = 210 ug/L for McLellan Reservoir
 *Uranium(acute) = See 38.5(3) for details.
 *Uranium(chronic) = See 38.5(3) for details.

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper South Platte River Basin

22b. Lakes and reservoirs located in the Rocky Mountain Arsenal National Wildlife Refuge							
COSPUS22B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (ug/L)	---	TVS	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	---	0.5	Silver	TVS	TVS
		Phosphorus	---	---	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

23. Lakes and reservoirs in watersheds tributary to the Upper South Platte River and within the City and County of Denver, except for listings in the other subbasins of the South Platte River and in Segments 17a and 17b.							
COSPUS23	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Fish Ingestion Standards		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
Other: *See section 38.7 (Marston Forebay). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (ug/L)	---	TVS	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	---	0.5	Silver	TVS	TVS
		Phosphorus	---	---	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Cherry Creek Basin

1. Mainstem of Cherry Creek from the source of East and West Cherry Creek to the inlet of Cherry Creek Reservoir.							
COSPCH01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m ²)	---	450*TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic		Copper	TVS	TVS
*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 38.5(4).		Ammonia	TVS	TVS	Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Boron	---	0.75	Iron(T)	---	1000
*Uranium(acute) = See 38.5(3) for details.		Chloride	---	250	Lead	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.		Chlorine	0.019	0.011	Lead(T)	50	---
		Cyanide	0.005	---	Manganese	TVS	TVS/WS
		Nitrate	10	---	Mercury(T)	---	0.01
		Nitrite	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.47TVS*	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

2. Cherry Creek Reservoir.								
COSPCH02	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT		acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---	
	Recreation E	acute	chronic		Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
Qualifiers: <u>Public Swim Beach*</u>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
Other:		chlorophyll a (ug/L)	7/1 - 9/30	---	18*	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---	
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS	
Expiration Date of 12/31/2024		acute	chronic		Copper	TVS	TVS	
*chlorophyll a (ug/L)(chronic) = Season mean concentration measured in the upper three meters of the water column for the months of July through September with an exceedance frequency of once in five years.		Ammonia	TVS	TVS	Iron	---	WS	
*Public Swim Beach applies to Cherry Creek Reservoir.		Boron	---	0.75	Iron(T)	---	1000	
*Uranium(acute) = See 38.5(3) for details.		Chloride	---	250	Lead	TVS	TVS	
*Uranium(chronic) = See 38.5(3) for details.		Chlorine	0.019	0.011	Lead(T)	50	---	
		Cyanide	0.005	---	Manganese	TVS	TVS/WS	
		Nitrate	10	---	Mercury(T)	---	0.01	
		Nitrite	---	0.5	Molybdenum(T)	---	150	
		<u>Nitrogen</u>	---	-	TVS	Nickel	TVS	TVS
		Phosphorus	---	-	TVS	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS	
		Sulfide	---	0.002	Silver	TVS	TVS	
					Uranium	varies*	varies*	
					Zinc	TVS	TVS	

2. Cherry Creek Reservoir.								
COSPCH02	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---	
	Recreation E		acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
Qualifiers: <u>Public Swim Beach*</u>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
Other:		chlorophyll a (ug/L)	7/1 - 9/30	---	18*	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---	
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS	
Expiration Date of 12/31/2024			acute	chronic	Copper	TVS	TVS	
*chlorophyll a (ug/L)(chronic) = Season mean concentration measured in the upper three meters of the water column for the months of July through September with an exceedance frequency of once in five years.		Ammonia	TVS	TVS	Iron	---	WS	
*Public Swim Beach applies to Cherry Creek Reservoir.		Boron	---	0.75	Iron(T)	---	1000	
*Uranium(acute) = See 38.5(3) for details.		Chloride	---	250	Lead	TVS	TVS	
*Uranium(chronic) = See 38.5(3) for details.		Chlorine	0.019	0.011	Lead(T)	50	---	
		Cyanide	0.005	---	Manganese	TVS	TVS/WS	
		Nitrate	10	---	Mercury(T)	---	0.01	
		Nitrite	---	0.5	Molybdenum(T)	---	150	
		Nitrogen	---	-	TVS	Nickel	TVS	TVS
		Phosphorus	---	---	TVS	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS	
		Sulfide	---	0.002	Silver	TVS	TVS	
					Uranium	varies*	varies*	
					Zinc	TVS	TVS	

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Cherry Creek Basin

3. Mainstem of Cherry Creek from the outlet of Cherry Creek Reservoir to the confluence with the South Platte River.							
COSPCH03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS	TVS	
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
4a. All tributaries to Cherry Creek, including all wetlands, from the source of East and West Cherry Creeks to the confluence with the South Platte River except for listings in Segment 4b.							
COSPCH04A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02-10 ^A	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	150*TVS	Chromium III	---	TVS
*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4).		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
*Phosphorus(chronic) = Applies only above the facilities listed at 38.5(4).		Inorganic (mg/L)			Chromium VI	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		acute	chronic	Copper	TVS	TVS	
*Uranium(chronic) = See 38.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.47TVS*	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

4a. All tributaries to Cherry Creek, including all wetlands, from the source of East and West Cherry Creeks to the confluence with the South Platte River except for listings in Segment 4b.

COSPCH04A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<div>Other:</div> <div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Phosphorus(chronic) = Applies only above the facilities listed at 38.5(4).</div> <div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div>		chlorophyll a (mg/m²)	---	150* TVS	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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.17* TVS*	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Cherry Creek Basin

4b. Cottonwood Creek, including all tributaries and wetlands, from the source to Cherry Creek Reservoir.						
COSPCH04B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02-10 ^A
Water Supply		D.O. (mg/L)	---	5.0	Cadmium	TVS
		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Qualifiers:		chlorophyll a (mg/m ²)	---	150 ^{TVS}	Chromium III	---
Other:		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	---
		Boron	---	0.75	Iron(T)	---
		Chloride	---	250	Lead	TVS
		Chlorine	0.019	0.011	Lead(T)	50
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	---	0.5	Molybdenum(T)	---
		Phosphorus	---	0.4 ^{TVS} *	Nickel	TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	varies*
					Silver	TVS
					Uranium	varies*
					Zinc	TVS
						TVS

*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4).
 *Phosphorus(chronic) = Applies only above the facilities listed at 38.5(4).
 *Selenium(acute) = See section 38.6(4)(i) for selenium standards and assessment locations.
 *Selenium(chronic) = See section 38.6(4)(i) for selenium standards and assessment locations.
 *Uranium(acute) = See 38.5(3) for details.
 *Uranium(chronic) = See 38.5(3) for details.

5. Lakes and reservoirs in the Cherry Creek system from the source of East and West Cherry Creeks to the confluence with the South Platte River, except for listings in Segments 2, 6 and 7.						
COSPCH05	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
Water Supply		D.O. (mg/L)	---	5.0	Cadmium	TVS
		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Qualifiers:		chlorophyll a (ug/L)	---	20 ^{TVS}	Chromium III	---
Water + Fish Standards		E. coli (per 100 mL)	---	126	Chromium III(T)	50
Other:		Inorganic (mg/L)		Chromium VI	TVS	TVS
		acute	chronic	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---
		Boron	---	0.75	Iron(T)	---
		Chloride	---	250	Lead	TVS
		Chlorine	0.019	0.011	Lead(T)	50
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	---	0.5	Molybdenum(T)	---
		Nitrogen	---	TVS*	Nickel	TVS
		Phosphorus	---	0.083 ^{TVS} *	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
					Uranium	varies*
					Zinc	TVS
						TVS

*chlorophyll a (ug/L)(Nitrogen)(chronic) = applies only above the facilities listed at 38.5(4); applies only to lakes and reservoirs larger than 25 acres surface area.).
 *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4); applies only to lakes and reservoirs larger than 25 acres surface area.).
 *Uranium(acute) = See 38.5(3) for details.
 *Uranium(chronic) = See 38.5(3) for details.

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Cherry Creek Basin

6. Lakes and reservoirs in watersheds tributary to Cherry Creek within the City and County of Denver.							
COSPCH06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Fish Ingestion Standards		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (ug/L)	---	TVS	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	---	0.5	Silver	TVS	TVS
		Phosphorus	---	---	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			
		7. Rueter-Hess Reservoir					
COSPCH07	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
	DUWS	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Qualifiers:		chlorophyll a (ug/L)	---	DUWS	Chromium III	---	TVS
Other:		chlorophyll a (ug/L)	---	TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Iron	---	WS
*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.5	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	TVS	Silver	TVS	TVS
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Bear Creek Basin

1a. Mainstem of Bear Creek from the boundary of the Mt. Evans Wilderness area to the inlet of Evergreen Lake.								
COSPBE01A	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---	
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
Expiration Date of 12/31/2024					Copper	TVS	TVS	
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div>		Inorganic (mg/L)			Iron	---	WS	
		acute	chronic	Iron(T)	---	1000		
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.44 TVS*	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	
		1b. Mainstem of Bear Creek from Harriman Ditch to the inlet of Bear Creek Reservoir.						
COSPBE01B	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Water + Fish Standards		pH	6.5 - 9.0	---	Chromium III	---	TVS	
Other:		chlorophyll a (mg/m²)	---	--- TVS	Chromium III(T)	50	---	
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
Arsenic(chronic) = hybrid					Copper	TVS	TVS	
Expiration Date of 12/31/2024		Inorganic (mg/L)			Iron	---	WS	
<div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div> <div>*Temperature =</div> <div>DM=CS-II and MWAT=CS-II from 11/1-3/31</div> <div>DM=CS-II and MWAT= 19.3 from 4/1-10/31</div>		acute	chronic	Iron(T)	---	1000		
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	---	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	

1b. Mainstem of Bear Creek from Harriman Ditch to the inlet of Bear Creek Reservoir.							
COSPBE01B Classifications		Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Water + Fish Standards		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m ²)	---	TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Iron	---	WS
*Uranium(acute) = See 38.5(3) for details.		acute	chronic	Iron(T)	---	1000	
*Uranium(chronic) = See 38.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Temperature =		Boron	---	0.75	Lead(T)	50	---
DM=CS-II and MWAT=CS-II from 11/1-3/31		Chloride	---	250	Manganese	TVS	TVS/WS
DM=CS-II and MWAT= 19.3 from 4/1-10/31		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Bear Creek Basin

1c. Bear Creek Reservoir.								
COSPBE01C	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
Temporary Modification(s):		chlorophyll a (ug/L)	7/1 - 9/30	---	12.2*	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
Expiration Date of 12/31/2024					Copper	TVS	TVS	
*chlorophyll a (ug/L)(chronic) = mean concentration measured through collection of samples that are representative of the mixed layer during summer months (July, August, September) and with an exceedance frequency of once in five years. *Phosphorus(chronic) = mean concentration measured through collection of samples that are representative of the mixed layer during summer months (July, August, September) and with an exceedance frequency of once in five years. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details. *Temperature = DM=CLL and MWAT=CLL from 1/1-3/31 DM=CLL and MWAT= 23.3 from 4/1-12/31		Inorganic (mg/L)		Iron	---	WS		
		acute	chronic	Iron(T)	---	1000		
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	7/1 - 9/30	---	22.2*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	
		1d. Evergreen Lake.						
		COSPBE01D	Classifications	Physical and Biological			Metals (ug/L)	
		Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CLL	CLL	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
	DUWS	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
Other:		chlorophyll a (ug/L)	---	---DUWS	Chromium III(T)	50	---	
		chlorophyll a (ug/L)	---	TVS	Chromium VI	TVS	TVS	
*Uranium(acute) = See 38.5(3) for details.		E. coli (per 100 mL)	---	126	Copper	TVS	TVS	
*Uranium(chronic) = See 38.5(3) for details.		Inorganic (mg/L)		Iron	---	WS		
		acute	chronic	Iron(T)	---	1000		
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Nitrogen	---	TVS	Selenium	TVS	TVS	
		Phosphorus	---	---TVS	Silver	TVS	TVS(tr)	
		Sulfate	---	WS	Uranium	varies*	varies*	
		Sulfide	---	0.002	Zinc	TVS	TVS	

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Bear Creek Basin

1e. Mainstem of Bear Creek from the outlet of Evergreen Lake to the Harriman Ditch.							
COSPBE01E	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)		Iron	---	WS	
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
2. Mainstem of Bear Creek from the outlet of Bear Creek Reservoir to the confluence with the South Platte River.							
COSPBE02	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)		Chromium VI	TVS	TVS	
Expiration Date of 12/31/2024		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Bear Creek Basin

3. All tributaries to Bear Creek, including all wetlands, from the source to the outlet of Evergreen Lake, except for listings in Segment 7.								
COSPBE03	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute		chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450 *TVS	Chromium III(T)	50	---	
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
Expiration Date of 12/31/2024					Copper	TVS	TVS	
*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		Inorganic (mg/L)		Iron	---	WS		
		acute	chronic	Iron(T)	---	1000		
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.44 TVS*	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	
		4. All tributaries to Bear Creek, including all wetlands, from the outlet of Evergreen Lake to the confluence with the South Platte River, except for specific listings in Segments 5, 6a, and 6b.						
		COSPBE04	Classifications	Physical and Biological			Metals (ug/L)	
		Designation	Agriculture	DM	MWAT	acute		chronic
Reviewable	Aq Life Warm 2	Temperature °C	WS-I	WS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
Water + Fish Standards		chlorophyll a (mg/m²)	---	TVS	Chromium III	---	TVS	
Other:		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---	
Temporary Modification(s):		Inorganic (mg/L)			Chromium VI	TVS	TVS	
Arsenic(chronic) = hybrid		acute	chronic	Copper	TVS	TVS		
Expiration Date of 12/31/2024		Ammonia	TVS	TVS	Iron	---	WS	
*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150	
		Phosphorus	---	---	Nickel	TVS	TVS	
		Sulfate	---	WS	Nickel(T)	---	100	
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Bear Creek Basin

5. Swede, Kerr, Sawmill, Troublesome, and Cold Springs Gulches, and mainstem of Cub Creek from the source to the confluence with Bear Creek.							
COSPBE05	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Water + Fish Standards		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m²)	---	450*TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Iron	---	WS
*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4).		acute	chronic	Iron(T)	---	1000	
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
*Uranium(chronic) = See 38.5(3) for details.		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
6a. Turkey Creek system, including all tributaries and wetlands, from the source to the inlet of Bear Creek Reservoir, except for listings in Segment 6b.							
COSPBE06A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Water + Fish Standards		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m²)	---	450*TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Iron	---	WS
*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4).		acute	chronic	Iron(T)	---	1000	
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
*Uranium(chronic) = See 38.5(3) for details.		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

6a. Turkey Creek system, including all tributaries and wetlands, from the source to the inlet of Bear Creek Reservoir, except for listings in Segment 6b.							
COSPBE06A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Water + Fish Standards		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (mg/m ²)	---	450 *TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 *TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
			Zinc	TVS	TVS		

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Bear Creek Basin

6b. Mainstem of North Turkey Creek, from the source to the confluence with Turkey Creek.							
COSPBE06B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

7. Mainstem and all tributaries to Bear Creek, including wetlands, within the Mt. Evans Wilderness Area.							
COSPBE07	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Bear Creek Basin

8. Lakes and reservoirs in the Bear Creek system from the sources to the boundary of the Mt. Evans Wilderness area.						
COSPBE08	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
OW	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
<p>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Uranium(acute) = See 38.5(3) for details.</p> <p>*Uranium(chronic) = See 38.5(3) for details.</p>		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Nitrogen	---	TVS	Nickel(T)	---
		Phosphorus	---	0.025*TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS
9. Lakes and reservoirs in the Bear Creek system from the boundary of the Mt. Evans Wilderness area to the inlet of Evergreen Lake; includes Summit Lake.						
COSPBE09	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
<p>*chlorophyll a (ug/L)(Nitrogen)(chronic) = applies only above the facilities listed at 38.5(4); applies only to lakes and reservoirs larger than 25 acres surface area.)</p> <p>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4); applies only to lakes and reservoirs larger than 25 acres surface area.)</p> <p>*Uranium(acute) = See 38.5(3) for details.</p> <p>*Uranium(chronic) = See 38.5(3) for details.</p>		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Nitrogen	---	TVS*	Nickel(T)	---
		Phosphorus	---	0.025*TVS*	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Bear Creek Basin

10. Lakes and reservoirs in drainages of Swede Gulch, Sawmill Gulch, Troublesome Gulch, and Cold Springs Gulch from source to confluence with Bear Creek.

COSPBE10	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 2	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Water + Fish Standards		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (ug/L)	---	TVS	Chromium III(T)	50	---
*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		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

11. Lakes and reservoirs in the Bear Creek system from the outlet of Evergreen Lake to the confluence with the South Platte River, except for lakes and reservoirs in Segments 1c, 10, and 12; includes Soda Lakes.

COSPBE11	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Water + Fish Standards		chlorophyll a (ug/L)	---	---TVS-	Chromium III	---	TVS
Public Swim Beach*		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Other:		Inorganic (mg/L)			Chromium VI	TVS	TVS
Temporary Modification(s):		acute		chronic	Copper	TVS	TVS
Arsenic(chronic) = hybrid		Ammonia	TVS	TVS	Iron	---	WS
Expiration Date of 12/31/2024		Boron	---	0.75	Iron(T)	---	1000
*Public Swim Beach applies to Big Soda Reservoir.		Chloride	---	250	Lead	TVS	TVS
*Nitrogen(chronic) = applies only to Public Swim Beach		Chlorine	0.019	0.011	Lead(T)	50	---
*Phosphorus(chronic) = applies only to Public Swim Beach		Cyanide	0.005	---	Manganese	TVS	TVS/WS
*Uranium(acute) = See 38.5(3) for details.		Nitrate	10	---	Mercury(T)	---	0.01
*Uranium(chronic) = See 38.5(3) for details.		Nitrite	---	0.5	Molybdenum(T)	---	150
		Nitrogen	---	TVS*	Nickel	TVS	TVS
		Phosphorus	---	---TVS*-	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Bear Creek Basin

12. Lakes and reservoirs in the Turkey Creek system from the source to the inlet of Bear Creek Reservoir.							
COSPBE12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 2	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Water + Fish Standards		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (ug/L)	---	TVS	Chromium III(T)	50	---
*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
					Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Clear Creek Basin

1. Mainstem of Clear Creek, including all tributaries and wetlands, from the source to the I-70 bridge above Silver Plume.

COSPCLO1	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable*	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150* TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Designation: 9/30/00 Baseline does not apply</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div>		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

2a. Mainstem of Clear Creek, including all tributaries and wetlands, from the I-70 bridge above Silver Plume to a point just above the confluence with West Fork Clear Creek, except for listings in Segments 3a and 3b.

COSPCL02A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable*	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450 *TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Designation: 9/30/00 Baseline does not apply</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div> <div>*Zinc(acute) = 0.978e^(0.8537[ln(hardness)]+1.9467)</div> <div>*Zinc(chronic) = 0.986e^(0.8537[ln(hardness)]+1.8032)</div>		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	---	SSE*
					Zinc	SSE*	---

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Clear Creek Basin

3a. Mainstem of South Clear Creek, including all tributaries and wetlands, from the source to the confluence with Clear Creek, except for the listings in Segments 3b and 19.							
COSPCL03A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable*	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024					Iron	---	WS
*Designation: 9/30/00 Baseline does not apply		Inorganic (mg/L)			Iron(T)	---	1000
*Uranium(acute) = See 38.5(3) for details.		acute	chronic	Lead	TVS	TVS	
*Uranium(chronic) = See 38.5(3) for details.		Ammonia	TVS	TVS	Lead(T)	50	---
*Zinc(acute) = 0.978e^(0.8537[ln(hardness)]+1.9467)		Boron	---	0.75	Manganese	TVS	TVS/WS
*Zinc(chronic) = 0.986e^(0.8537[ln(hardness)]+1.8032)		Chloride	---	250	Mercury(T)	---	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	---	150
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	10	---	Nickel(T)	---	100
		Nitrite	---	0.05	Selenium	TVS	TVS
		Phosphorus	---	0.44TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	---	SSE*
					Zinc	SSE*	---

3b. Mainstem of Leavenworth Creek from source to confluence with South Clear Creek.							
COSPCL03B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable*	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Water + Fish Standards		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
Other:		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Designation: 9/30/00 Baseline does not apply					Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.		acute	chronic	Iron(T)	---	1000	
*Zinc(acute) = 0.978e^(0.8537[ln(hardness)]+1.9467)		Ammonia	TVS	TVS	Lead	TVS	TVS
*Zinc(chronic) = 0.986e^(0.8537[ln(hardness)]+1.8032)		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	---	SSE*
					Zinc	SSE*	---

3b. Mainstem of Leavenworth Creek from source to confluence with South Clear Creek.							
COSPCL03B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable*	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Water + Fish Standards		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	50	---
Other:		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	---	SSE*
					Zinc	SSE*	---
	*Designation: 9/30/00 Baseline does not apply						
	*Uranium(acute) = See 38.5(3) for details.						
	*Uranium(chronic) = See 38.5(3) for details.						
	*Zinc(acute) = 0.978e^(0.8537[ln(hardness)]+1.9467)						
*Zinc(chronic) = 0.986e^(0.8537[ln(hardness)]+1.8032)							

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Clear Creek Basin

4. Mainstem of West Fork Clear Creek from the source to the confluence with Woods Creek.								
COSPCL04	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable*	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other:	pH6.5 - 9.0 chlorophyll a (mg/m²)--- E. coli (per 100 mL)--- *Designation: 9/30/00 Baseline does not apply *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.	---	---	---	Chromium III	---	TVS	
		---	---	---	Chromium III(T)	50	---	
		---	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
		acute	chronic	Iron(T)	---	1000		
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	210	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	
		5. Mainstem of West Fork Clear Creek from the confluence with Woods Creek to the confluence with Clear Creek.						
		COSPCL05	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other:	pH6.5 - 9.0 chlorophyll a (mg/m²)--- E. coli (per 100 mL)--- Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Manganese(chronic) = 393 ug/L at the mouth of West Fork, and 1480 ug/L below Woods Creek, see section 38.6(4)(j) for manganese assessment locations. Chronic TVS applies throughout segment. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details. *Zinc(acute) = e^(0.8404[ln(hardness)]+1.8810) *Zinc(chronic) = e^(08404[ln(hardness)]+1.5127)	---	---	---	Chromium III	---	TVS	
		---	---	---	Chromium III(T)	50	---	
		---	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
		acute	chronic	Iron(T)	---	1000		
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	varies*	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	210	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.44TVS*	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	---	SSE*	
					Zinc	SSE*	---	

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Clear Creek Basin

6. All tributaries to West Fork Clear Creek, including all wetlands, from the source to the confluence with Clear Creek, except for listings in Segments 7a and 8.							
COSPCL06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable*	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Designation: 9/30/00 Baseline does not apply		Inorganic (mg/L)			Iron	---	WS
*Uranium(acute) = See 38.5(3) for details.		acute	chronic	Iron(T)	---	1000	
*Uranium(chronic) = See 38.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
7a. Mainstem of Woods Creek from the outlet of Upper Urad Reservoir to the confluence with West Fork Clear Creek.							
COSPCL07A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Aq Life Cold 2	DM	MWAT	acute	chronic		
UP	Recreation N	Temperature °C	CS-I	CS-I	Arsenic	340	150
Qualifiers:		acute	chronic	Cadmium	TVS	TVS	
Other:		D.O. (mg/L)	---	6.0	Chromium III	TVS	TVS
Temporary Modification(s):		D.O. (spawning)	---	7.0	Chromium VI	TVS	TVS
temperature(MWAT) = current	10/1 - 11/30	pH	6.5 - 9.0	---	Copper	TVS	TVS
condition*		chlorophyll a (mg/m²)	---	---	Iron(T)	---	1000
temperature(MWAT) = current	4/1 - 5/31	E. coli (per 100 mL)	---	630	Lead	TVS	TVS
condition*					Manganese	TVS	TVS
Expiration Date of 12/31/2023		Inorganic (mg/L)			Mercury(T)	---	0.01
*Uranium(acute) = See 38.5(3) for details.		acute	chronic	Molybdenum(T)	---	---	
*Uranium(chronic) = See 38.5(3) for details.		Ammonia	TVS	TVS	Nickel	TVS	TVS
*TempMod: temperature(10/1 - 11/30) = Adopted 6/9/2015		Boron	---	---	Selenium	TVS	TVS
*TempMod: temperature(4/1 - 5/31) = Adopted 6/9/2015		Chloride	---	---	Silver	TVS	TVS(tr)
		Chlorine	0.019	0.011	Uranium	varies*	varies*
		Cyanide	0.005	---	Zinc	TVS	TVS
		Nitrate	---	---			
		Nitrite	---	0.05			
		Phosphorus	---	0.44TVS			
		Sulfate	---	---			
		Sulfide	---	0.002			

7a. Mainstem of Woods Creek from the outlet of Upper Urad Reservoir to the confluence with West Fork Clear Creek.						
COSPCL07A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Aq Life Cold 2		DM	MWAT		
UP	Recreation N	Temperature °C	CS-I	CS-I	Arsenic	340 150
Qualifiers:			acute	chronic		
Other:		D.O. (mg/L)	---	6.0	Cadmium	TVS TVS
Temporary Modification(s): temperature(MWAT) = current condition* 10/1 - 11/30 temperature(MWAT) = current condition* 4/1 - 5/31 Expiration Date of 12/31/2023		D.O. (spawning)	---	7.0	Chromium III	TVS TVS
		pH	6.5 - 9.0	---	Chromium VI	TVS TVS
		chlorophyll a (mg/m²)	---	---	Copper	TVS TVS
		E. coli (per 100 mL)	---	630	Iron(T)	--- 1000
						Lead
					Manganese	TVS TVS
					Mercury(T)	--- 0.01
					Molybdenum(T)	--- ---
			acute	chronic	Nickel	TVS TVS
		Ammonia	TVS	TVS	Selenium	TVS TVS
		Boron	---	---	Silver	TVS TVS(tr)
		Chloride	---	---	Uranium	varies* varies*
		Chlorine	0.019	0.011	Zinc	TVS TVS
		Cyanide	0.005	---		
		Nitrate	---	---		
		Nitrite	---	0.05		
		Phosphorus	---	0.44TVS		
		Sulfate	---	---		
		Sulfide	---	0.002		

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Clear Creek Basin

7b. Lower Urad Reservoir							
COSPCL07B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Aq Life Cold 2	DM	MWAT	acute	chronic		
UP	Recreation N	Temperature °C	CL	CL	Arsenic	340	150
Qualifiers:		acute	chronic	Cadmium	TVS	TVS	
Other: Temporary Modification(s): temperature(MWAT) = current condition* 10/1 - 11/30 temperature(MWAT) = current condition* 4/1 - 5/31 Expiration Date of 12/31/2023 *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details. *TempMod: temperature(10/1 - 11/30) = Adopted 6/9/2015 *TempMod: temperature(4/1 - 5/31) = Adopted 6/9/2015		D.O. (mg/L)	---	6.0	Chromium III	TVS	TVS
		D.O. (spawning)	---	7.0	Chromium VI	TVS	TVS
		pH	6.5 - 9.0	---	Copper	TVS	TVS
		chlorophyll a (ug/L)	---	TVS	Iron(T)	---	1000
		E. coli (per 100 mL)	---	630	Lead	TVS	TVS
					Manganese	TVS	TVS
		Inorganic (mg/L)			Mercury(T)	---	0.01
					Molybdenum(T)	---	---
					Nickel	TVS	TVS
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

8. Mainstem of Lion Creek from the source to the confluence with West Fork Clear Creek.							
COSPCL08	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Aq Life Cold 2	DM	MWAT	acute	chronic		
UP	Recreation E	Temperature °C	CS-I	CS-I	Arsenic	---	---
Qualifiers:		acute	chronic	Cadmium	---	---	
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		D.O. (mg/L)	---	6.0	Chromium III	---	---
		D.O. (spawning)	---	7.0	Chromium VI	---	---
		pH	3.0-9.0	---	Copper	---	---
		chlorophyll a (mg/m²)	---	TVS	Iron	---	---
		E. coli (per 100 mL)	---	126	Lead	---	---
					Manganese	---	---
		Inorganic (mg/L)			Mercury(T)	---	---
					Molybdenum(T)	---	---
					Nickel	---	---
					Selenium	---	---
					Silver	---	---
					Uranium	varies*	varies*
					Zinc	---	---

8. Mainstem of Lion Creek from the source to the confluence with West Fork Clear Creek.						
COSPCL08	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Aq Life Cold 2		DM	MWAT		
UP	Recreation E	Temperature °C	CS-I	CS-I	Arsenic	acutechronic
Qualifiers:			acute	chronic	Cadmium	acutechronic
Other:		D.O. (mg/L)	---	6.0	Chromium III	acutechronic
		D.O. (spawning)	---	7.0	Chromium VI	acutechronic
	*Uranium(acute) = See 38.5(3) for details.	pH	3.0-9.0	---	Copper	acutechronic
	*Uranium(chronic) = See 38.5(3) for details.	chlorophyll a (mg/m²)	---	150 TVS	Iron	acutechronic
		E. coli (per 100 mL)	---	126	Lead	acutechronic
					Manganese	acutechronic
					Mercury(T)	acutechronic
					Molybdenum(T)	acutechronic
					Nickel	acutechronic
					Selenium	acutechronic
					Silver	acutechronic
					Uranium	varies*varies*
					Zinc	acutechronic

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Clear Creek Basin

9a. Mainstem of Fall River, including all tributaries and wetlands, from the source to the confluence with Clear Creek.

COSPCL09A	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable*	Aq Life Cold 1	Temperature °C	CS-I CS-I	Arsenic	340 ---
	Recreation E	acute	chronic	Arsenic(T)	--- 0.02
	Water Supply	D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS
Qualifiers:		D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---
Other:		pH	6.5 - 9.0 ---	Chromium III	--- TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	--- 450 TVS	Chromium III(T)	50 ---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	--- 126	Chromium VI	TVS TVS
Expiration Date of 12/31/2024				Copper	TVS TVS
		Inorganic (mg/L)		Iron	--- WS
		acute	chronic	Iron(T)	--- 1000
		Ammonia	TVS TVS	Lead	TVS TVS
		Boron	--- 0.75	Lead(T)	50 ---
		Chloride	--- 250	Manganese	TVS TVS/WS
		Chlorine	0.019 0.011	Mercury(T)	--- 0.01
		Cyanide	0.005 ---	Molybdenum(T)	--- 150
		Nitrate	10 ---	Nickel	TVS TVS
		Nitrite	--- 0.05	Nickel(T)	--- 100
		Phosphorus	--- 0.44 TVS*	Selenium	TVS TVS
		Sulfate	--- WS	Silver	TVS TVS(tr)
		Sulfide	--- 0.002	Uranium	varies* varies*
				Zinc	TVS TVS

9b. Mainstem of Trail Creek, including all tributaries and wetlands from the source to the confluence with Clear Creek.

COSPCL09B	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable*	Aq Life Cold 1	Temperature °C	CS-I CS-I	Arsenic	340 ---
	Recreation E	acute	chronic	Arsenic(T)	--- 0.02
	Water Supply	D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS
Qualifiers:		D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---
Other:		pH	6.5 - 9.0 ---	Chromium III	--- TVS
		chlorophyll a (mg/m ²)	--- 450 TVS	Chromium III(T)	50 ---
		E. coli (per 100 mL)	--- 126	Chromium VI	TVS TVS
				Copper	TVS TVS
		Inorganic (mg/L)		Iron	--- WS
		acute	chronic	Iron(T)	--- 1000
		Ammonia	TVS TVS	Lead	TVS TVS
		Boron	--- 0.75	Lead(T)	50 ---
		Chloride	--- 250	Manganese	TVS TVS/WS
		Chlorine	0.019 0.011	Mercury(T)	--- 0.01
		Cyanide	0.005 ---	Molybdenum(T)	--- 150
		Nitrate	10 ---	Nickel	TVS TVS
		Nitrite	--- 0.05	Nickel(T)	--- 100
		Phosphorus	--- 0.44 TVS	Selenium	TVS TVS
		Sulfate	--- WS	Silver	TVS TVS(tr)
		Sulfide	--- 0.002	Uranium	varies* varies*
				Zinc	TVS 200

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Clear Creek Basin

10. Mainstem of Chicago Creek, including all tributaries and wetlands, from the source to the confluence with Clear Creek, except for listings in Segment 19.								
COSPCL10	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable*	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---	
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
Expiration Date of 12/31/2024					Copper	TVS	TVS	
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Designation: 9/30/00 Baseline does not apply</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div>		Inorganic (mg/L)			Iron	---	WS	
		acute	chronic	Iron(T)	---	1000		
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.44 TVS*	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
		Zinc	TVS	TVS				
		11. Mainstem of Clear Creek from a point just above the Argo Tunnel discharge to the Farmers Highline Canal diversion in Golden, Colorado.						
		COSPCL11	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic			
UP	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
Temporary Modification(s):		chlorophyll a (mg/m²)	---	--- TVS -	Chromium III(T)	50	---	
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
Expiration Date of 12/31/2024					Copper	---	17	
<div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div> <div>*Zinc(acute) = 0.978e^(0.8537[ln(hardness)]+1.9467)</div> <div>*Zinc(chronic) = 0.986e^(0.8537[ln(hardness)]+1.8032)</div>		Inorganic (mg/L)			Iron	---	WS	
		acute	chronic	Iron(T)	---	1000		
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	---	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
		Zinc	---	SSE*				
		Zinc	SSE*	---				

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Clear Creek Basin

12a. All tributaries to Clear Creek, including all wetlands, from the Argo Tunnel discharge to the Farmers Highline Canal diversion in Golden, Colorado, except for listings in Segments 12b, 13a and 13b.

COSPCL12A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable*	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Designation: 9/30/00 Baseline does not apply</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div>		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

12b. Beaver Brook, from the source to the confluence with Soda Creek, and Soda Creek, from the source to the confluence with Clear Creek.

COSPCL12B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable*	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	450 <u>TVS</u>	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Designation: 9/30/00 Baseline does not apply</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div>		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 <u>TVS</u> *	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Clear Creek Basin

13a. Mainstem of North Clear Creek, including all tributaries and wetlands, from its source to its confluence with Chase Gulch, and Four Mile Gulch, including all tributaries and wetlands, from their sources to their confluence with North Clear Creek and Eureka Gulch, including all tributaries and wetlands, from its source to its confluence with Gregory Gulch.

COSPCL13A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable*	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

13b. Mainstem of North Clear Creek including all tributaries and wetlands from a point just below the confluence with Chase Gulch to the confluence with Clear Creek, except for the listings in Segment 13a.

COSPCL13B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Water Supply		acute	chronic	Arsenic(T)	---	0.02
	Recreation E	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Water + Fish Standards		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. coliE. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	---	64
Expiration Date of 12/31/2024			Inorganic (mg/L)		Iron	---	WS
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div>			acute	chronic	Iron(T)	---	5400
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	---	740

*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4).
 *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).
 *Uranium(acute) = See 38.5(3) for details.
 *Uranium(chronic) = See 38.5(3) for details.

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Clear Creek Basin

14a. Mainstem of Clear Creek from the Farmers Highline Canal diversion in Golden, Colorado to the Denver Water conduit #16 crossing.								
COSPCL14A	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---	
	Recreation N	acute	chronic	Arsenic(T)	---	0.02-10 ^A		
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (mg/m²)	---	---	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	Lead	TVS	TVS	
		Chlorine	0.019	0.011	Lead(T)	50	---	
		Cyanide	0.005	---	Manganese	TVS	244	
		Nitrate	10	---	Mercury(T)	---	0.01	
		Nitrite	---	0.5	Molybdenum(T)	---	150	
		Phosphorus	---	---	Nickel	TVS	TVS	
		Sulfate	---	WS	Nickel(T)	---	100	
		Sulfide	---	0.002	Selenium	TVS	TVS	
					Silver	TVS	TVS	
					Uranium	varies*	varies*	
					Zinc	TVS	TVS	
		14b. Mainstem of Clear Creek from the Denver Water conduit #16 crossing to a point just below Youngfield Street in Wheat Ridge, Colorado.						
		COSPCL14B	Classifications	Physical and Biological			Metals (ug/L)	
		Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
Water + Fish Standards		chlorophyll a (mg/m²)	---	---TVS	Chromium III	---	TVS	
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		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	244	
		Nitrate	10	---	Mercury(T)	---	0.01	
		Nitrite	---	0.5	Molybdenum(T)	---	150	
		Phosphorus	---	---	Nickel	TVS	TVS	
		Sulfate	---	WS	Nickel(T)	---	100	
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Clear Creek Basin

15. Mainstem of Clear Creek from Youngfield Street in Wheat Ridge, Colorado, to the confluence with the South Platte River.							
COSPCL15	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS	TVS	
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

16a. Mainstem of Lena Gulch including all tributaries and wetlands from its source to the inlet of Maple Grove Reservoir.							
COSPCL16A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Water Supply	DM	MWAT	acute	chronic		
UP	Agriculture	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Aq Life Warm 2	acute	chronic	Arsenic(T)	---	0.02-10	
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	TVS	Chromium III	---	TVS
*Uranium(acute) = See 38.5(3) for details.		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
*Uranium(chronic) = See 38.5(3) for details.		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)	---	150
		Phosphorus	---	TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

16a. Mainstem of Lena Gulch including all tributaries and wetlands from its source to the inlet of Maple Grove Reservoir.							
COSPCL16A		Classifications		Physical and Biological		Metals (ug/L)	
Designation			DM	MWAT		acute	chronic
UP	Water Supply						
	Agriculture	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Aq Life Warm 2		acute	chronic	Arsenic(T)	---	0.02-10 ^A
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	150 TVS	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)	---	150
		Phosphorus	---	0.17 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Clear Creek Basin

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 listings in Segments 16a, 17b, 18a and 18b.							
COSPCL16B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m ²)	---	150 TVS	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	---	0.5	Silver	TVS	TVS
		Phosphorus	---	0.17 TVS	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			
17a. Arvada Reservoir.							
COSPCL17A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Cold 2	Temperature °C	CLL	CLL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
	DUWS	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Water + Fish Standards		chlorophyll a (ug/L)	---	8 DUWS	Chromium III(T)	50	---
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (ug/L)	---	TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	0.025 TVS	Selenium	TVS	TVS
		Phosphorus	---	0.025 TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Clear Creek Basin

17b. Mainstem of Ralston Creek, including all tributaries and wetlands, from the source to the inlet of Arvada Reservoir.							
COSPCL17B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Water + Fish Standards		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		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	---	0.44 TVS	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
		Uranium	varies*	varies*			
		Zinc	TVS	TVS			
		17b. Mainstem of Ralston Creek, including all tributaries and wetlands, from the source to the inlet of Arvada Reservoir.					
COSPCL17B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Water + Fish Standards		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		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	---	0.44 TVS	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS
		Uranium	varies*	varies*			
		Zinc	TVS	TVS			

18a. Mainstem of Ralston Creek, including all tributaries and wetlands, from the outlet of Arvada Reservoir to the confluence with Clear Creek.							
COSPCL18A		Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	450TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024			acute	chronic	Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.47TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Clear Creek Basin

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.								
COSPCL18B	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02-10	^A	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (mg/m ²)	---	150 TVS	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	---	0.5	Molybdenum(T)	---	150	
		Phosphorus	---	0.47 TVS	Nickel	TVS	TVS	
		Sulfate	---	WS	Nickel(T)	---	100	
		Sulfide	---	0.002	Selenium	TVS	TVS	
					Silver	TVS	TVS	
			Uranium	varies*	varies*			
			Zinc	TVS	TVS			
19. All tributaries to Clear Creek, including wetlands, within the Mt. Evans Wilderness Area.								
COSPCL19	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m ²)	---	150 TVS	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	---	0.44 TVS	Nickel(T)	---	100	
		Sulfate	---	250	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Clear Creek Basin

20. Lakes and reservoirs in the Clear Creek system that are within the boundary of the Mt. Evans Wilderness Area.						
COSPCL20	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
OW	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Nitrogen	---	TVS	Nickel(T)	---
		Phosphorus	---	0.025*TVS	Selenium	TVS
		Sulfate	---	250	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS
21. Lakes and reservoirs in the Clear Creek system from sources to the Farmer's Highline Canal diversion in Golden, CO, except for listings in Segments 7b, 20, 22, and 25. Upper Long Lake.						
COSPCL21	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable*	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Classification: DUWS applies to Hole in the Ground Reservoir, Chase Gulch Reservoir, and Beaver Brook Reservoir No 2 only. *Designation: 9/30/00 Baseline does not apply *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details. *Temperature = DM and MWAT=CL from 1/1-3/31 Chase Gulch Reservoir DM=CL and MWAT=16.6 from 4/1-12/31 All others DM and MWAT=CL from 4/1-12/31		chlorophyll a (ug/L)	---	8*DUWS	Chromium III(T)	50
		chlorophyll a (ug/L)	---	TVS	Chromium VI	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS
		Inorganic (mg/L)		Iron	---	WS
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Nitrogen	---	TVS	Selenium	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS
		Sulfate	---	WS	Uranium	varies*
		Sulfide	---	0.002	Zinc	TVS

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Clear Creek Basin

22. Lakes and reservoirs in the North Clear Creek drainage from a point just below the confluence with Chase Gulch to the confluence with Clear Creek.						
COSPCL22	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable*	Aq Life Cold 1 Recreation E	CL	CL	Arsenic	340	---
Qualifiers:		acute	chronic	Arsenic(T)	---	7.6
Other:		D.O. (mg/L)	6.0	Cadmium	TVS	TVS
*Chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Designation: 9/30/00 Baseline does not apply *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		D.O. (spawning)	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	Chromium III(T)	---	100
		chlorophyll a (ug/L)	8*TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	126	Copper	TVS	TVS
		Inorganic (mg/L)		Iron(T)	---	1000
		acute	chronic	Lead	TVS	TVS
		Ammonia	TVS	Manganese	TVS	TVS
		Boron	0.75	Mercury(T)	---	0.01
		Chloride	---	Molybdenum(T)	---	150
		Chlorine	0.019	Nickel	TVS	TVS
		Cyanide	0.005	Selenium	TVS	TVS
		Nitrate	100	Silver	TVS	TVS(tr)
		Nitrite	0.05	Uranium	varies*	varies*
		Nitrogen	---	Zinc	TVS	TVS
		Phosphorus	0.025*TVS			
		Sulfate	---			
		Sulfide	0.002			

23. Ralston Reservoir						
COSPCL23	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 2 Recreation U Water Supply DUWS	CLL	CLL	Arsenic	340	---
Qualifiers:		acute	chronic	Arsenic(T)	---	0.02
Water + Fish Standards		D.O. (mg/L)	6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)	7.0	Cadmium(T)	5.0	---
*Chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	Chromium III	---	TVS
		chlorophyll a (ug/L)	8*DUWS	Chromium III(T)	50	---
		chlorophyll a (ug/L)	TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	126	Copper	TVS	TVS
		Inorganic (mg/L)		Iron	---	WS
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	Lead	TVS	TVS
		Boron	0.75	Lead(T)	50	---
		Chloride	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	Mercury(T)	---	0.01
		Cyanide	0.005	Molybdenum(T)	---	150
		Nitrate	10	Nickel	TVS	TVS
		Nitrite	0.05	Nickel(T)	---	100
		Nitrogen	---	Selenium	TVS	TVS
		Phosphorus	0.025*TVS	Silver	TVS	TVS(tr)
		Sulfate	WS	Uranium	varies*	varies*
		Sulfide	0.002	Zinc	TVS	TVS

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Clear Creek Basin

24. Lakes and reservoirs in the Clear Creek system from the Farmers Highline Canal diversion in Golden, Colorado to the confluence with the South Platte River, except for listings in Segments 17a, 21 and 23.

COSPCL24	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Warm 1	Temperature °C	WL WL	Arsenic	340 ---
	Recreation E	acute	chronic	Arsenic(T)	--- 0.02
	Water Supply	D.O. (mg/L)	--- 5.0	Cadmium	TVS TVS
	DUWS*	pH	6.5 - 9.0 ---	Cadmium(T)	5.0 ---
Qualifiers:		chlorophyll a (ug/L)	--- 20*DUWS	Chromium III	--- TVS
Other:		chlorophyll a (ug/L)	--- TVS	Chromium III(T)	50 ---
Temporary Modification(s):		E. coli (per 100 mL)	--- 126	Chromium VI	TVS TVS
Arsenic(chronic) = hybrid		Inorganic (mg/L)		Copper	TVS TVS
Expiration Date of 12/31/2024				Iron	--- WS
*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.*Classification: DUWS applies to Maple Grove Reservoir.		acute	chronic	Iron(T)	--- 1000
*Classification: DUWSNitrogen(chronic) = applies to Maple Grove Reservoir only, above the facilities listed at 38.5(4) and in DUWS waterbodies.		Ammonia	TVS TVS	Lead	TVS TVS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.) and in DUWS waterbodies.		Boron	--- 0.75	Lead(T)	50 ---
*Uranium(acute) = See 38.5(3) for details.		Chloride	--- 250	Manganese	TVS TVS/WS
*Uranium(chronic) = See 38.5(3) for details.		Chlorine	0.019 0.011	Mercury(T)	--- 0.01
		Cyanide	0.005 ---	Molybdenum(T)	--- 150
		Nitrate	10 ---	Nickel	TVS TVS
		Nitrite	--- 0.5	Nickel(T)	--- 100
		Nitrogen	--- - TVS*	Selenium	TVS TVS
		Phosphorus	--- 0.083TVS*	Silver	TVS TVS
		Sulfate	--- WS	Uranium	varies* varies*
		Sulfide	--- 0.002	Zinc	TVS TVS

25. Guanella Reservoir (near Town of Empire, 39.758,-105.700)

COSPCL25	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CL CL	Arsenic	340 ---
	Recreation E	acute	chronic	Arsenic(T)	--- 7.6
Qualifiers:		D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS
Other:		D.O. (spawning)	--- 7.0	Chromium III	TVS TVS
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		pH	6.5 - 9.0 ---	Chromium III(T)	--- 100
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		chlorophyll a (ug/L)	--- 8*TVS	Chromium VI	TVS TVS
*Uranium(acute) = See 38.5(3) for details.		E. coli (per 100 mL)	--- 126	Copper	TVS TVS
*Uranium(chronic) = See 38.5(3) for details.		Inorganic (mg/L)		Iron(T)	--- 1000
		acute	chronic	Lead	TVS TVS
		Ammonia	TVS TVS	Manganese	TVS TVS
		Boron	--- 0.75	Mercury(T)	--- 0.01
		Chloride	--- ---	Molybdenum(T)	--- ---
		Chlorine	0.019 0.011	Nickel	TVS TVS
		Cyanide	0.005 ---	Selenium	TVS TVS
		Nitrate	100 ---	Silver	TVS TVS(tr)
		Nitrite	--- 0.05	Uranium	varies* varies*
		Nitrogen	--- - TVS	Zinc	TVS TVS
		Phosphorus	--- 0.025*TVS		
		Sulfate	--- ---		
		Sulfide	--- 0.002		

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Big Dry Creek Basin

1. Mainstem of Big Dry Creek, including all tributaries and wetlands, from the outlet of Standley Lake to the confluence with the South Platte River. Walnut Creek, including tributaries and wetlands, from the outlet of Great Western Reservoir to the confluence with Big Dry Creek.

COSPBD01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 1	WS-I		WS-I	Arsenic	340	---
	Water Supply	acute		chronic	Arsenic(T)	---	0.02-10 ^A
	Recreation E	---		5.0	Beryllium(T)	---	100
Qualifiers:		pH		6.5 - 9.0	---	---	---
Fish Ingestion Standards Do Not Apply		chlorophyll a (mg/m ²)		---	450*TVS	---	---
Other:		E. coli (per 100 mL)		---	126	---	TVS
<p>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4).</p> <p>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).</p> <p>*Selenium(acute) = 19.1 ug/L from 11/1 - 3/31 TVS from 4/1 - 10/31.</p> <p>Refer to Section 38.6(4)(d).</p> <p>*Selenium(chronic) = 15 ug/L from 11/1 - 3/31 7.4 ug/L from 4/1 - 10/31.</p> <p>Refer to Section 38.6(4)(d).</p> <p>*Uranium(acute) = See 38.5(3) for details.</p> <p>*Uranium(chronic) = See 38.5(3) for details.</p>		Inorganic (mg/L)			Chromium III	---	TVS
		acute		chronic	Chromium III(T)	50	---
		Ammonia		TVS	TVS	TVS	TVS
		Boron		---	0.75	---	WS
		Chloride		---	250	---	1000
		Chlorine		0.019	0.011	TVS	TVS
		Cyanide		0.005	---	Lead	TVS
		Nitrate		10	---	Lead(T)	50
		Nitrite		---	4.5	Manganese	TVS
		Phosphorus		---	0.47*TVS*	TVS	TVS/WS
		Sulfate		---	WS	Mercury(T)	---
		Sulfide		---	0.002	---	0.01
						Molybdenum(T)	---
						---	150
						Nickel	TVS
						TVS	TVS
						Nickel(T)	---
						---	100
						Selenium	varies*
						varies*	varies*
						Selenium	varies*
						---	---
						Silver	TVS
						TVS	TVS
						Uranium	varies*
						varies*	varies*
						Zinc	TVS
						TVS	TVS

2. Standley Lake.

COSPBD02	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute		chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---	
	Recreation E	acute		chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)		---	5.0	Beryllium(T)	---	4.0
	DUWS	pH		6.5 - 9.0	---	Cadmium	TVS	TVS
		chlorophyll a (ug/L)		---	4.0*	Cadmium(T)	5.0	---
Qualifiers:								
Other:								
Temporary Modification(s):								
Arsenic(chronic) = hybrid								
Expiration Date of 12/31/2024								
*chlorophyll a (ug/L)(chronic) = 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. Refer to Section 38.6(4)(e).								
*Uranium(acute) = See 38.5(3) for details.								
*Uranium(T)(chronic) = 3(t) Picocuries/Liter. See 38.6(4) for additional standards for segment 2.								
		Inorganic (mg/L)			Chromium III	50	---	
		acute		chronic	Chromium VI	TVS	TVS	
		Ammonia	TVS	TVS	Copper	TVS	TVS	
		Boron	---	0.75	Iron	---	WS	
		Chloride	---	250	Iron(T)	---	1000	
		Chlorine	0.019	0.011	Lead	TVS	TVS	
		Cyanide	0.005	---	Lead(T)	50	---	
		Nitrate	10	---	Manganese	TVS	TVS/WS	
		Nitrite	---	0.5	Mercury(T)	---	0.01	
		<u>Nitrogen</u>	---	<u>TVS</u>	Molybdenum(T)	---	150	
		Phosphorus	---	<u>TVS</u>	Nickel	TVS	TVS	
		Sulfate	---	WS	Nickel(T)	---	100	
		Sulfide	---	0.002	Selenium	TVS	TVS	
					Silver	TVS	TVS	
					Uranium	varies*	---	
					Uranium(T)	---	3*	
					Zinc	TVS	TVS	

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Big Dry Creek Basin

3. Great Western Reservoir.

COSPBD03	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
UP	Aq Life Warm 2	Temperature °C	WL WL	Arsenic	340 ---
	Recreation N	acute	chronic	Arsenic(T)	--- 100
	Water Supply	D.O. (mg/L)	--- 5.0	Beryllium(T)	--- 100
Qualifiers:		pH	6.5 - 9.0 ---	Cadmium	TVS TVS
Other:		chlorophyll a (ug/L)	--- TVS	Chromium III	TVS TVS
		E. coli (per 100 mL)	--- 630	Chromium III(T)	--- 100
		Inorganic (mg/L)		Chromium VI	TVS TVS
		acute	chronic	Copper	TVS TVS
		Ammonia	TVS TVS	Iron(T)	--- 1000
		Boron	--- 0.75	Lead	TVS TVS
		Chloride	--- ---	Manganese	TVS TVS
		Chlorine	0.019 0.011	Mercury(T)	--- 0.01
		Cyanide	0.005 ---	Molybdenum(T)	--- 150
		Nitrate	100 ---	Nickel	TVS TVS
		Nitrite	--- 2.7	Selenium	TVS TVS
		Phosphorus	--- ---	Silver	TVS TVS
		Sulfate	--- ---	Uranium	varies* ---
		Sulfide	--- 0.002	Uranium(T)	--- 4*
				Zinc	TVS TVS

4a. Mainstem and all tributaries to Woman and Walnut Creeks from sources to Standley Lake and Great Western Reservoir, respectively, except for listings in Segments 4b and 5a.

COSPBD04A	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-I WS-I	Arsenic	340 ---
	Recreation E	acute	chronic	Arsenic(T)	--- 0.02-10 ^A
	Water Supply	D.O. (mg/L)	--- 5.0	Beryllium(T)	--- 4.0
Qualifiers:		pH	6.5 - 9.0 ---	Cadmium	TVS TVS
Other:		chlorophyll a (mg/m ²)	--- TVS	Cadmium(T)	5.0 ---
		E. coli (per 100 mL)	--- 126	Chromium III	--- TVS
		Inorganic (mg/L)		Chromium III(T)	50 ---
		acute	chronic	Chromium VI	TVS TVS
		Ammonia	TVS TVS	Copper	TVS TVS
		Boron	--- 0.75	Iron(T)	--- 1000
		Chloride	--- ---	Lead	TVS TVS
		Chlorine	0.019 0.011	Lead(T)	50 ---
		Cyanide	0.005 ---	Manganese	TVS TVS
		Nitrate	10 ---	Mercury(T)	--- 0.01
		Nitrite	--- 0.5	Molybdenum(T)	--- 150
		Phosphorus	--- TVS	Nickel	TVS TVS
		Sulfate	--- ---	Nickel(T)	--- 100
		Sulfide	--- 0.002	Selenium	TVS TVS
				Silver	TVS TVS
				Uranium	varies* ---
				Uranium(T)	--- 16.8*
				Zinc	TVS TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Big Dry Creek Basin

4b. North Walnut Creek from its source to the western edge of the Central Operable Unit. North and South Walnut Creek and Walnut Creek, from the eastern edge of the Central Operable Unit on Rocky Flats Property to Indiana Street.

COSPBD04B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	5.0	Beryllium(T)	---	4.0
Qualifiers:		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(T)(chronic) = See 38.6(4) for additional standards for segment 4b.		chlorophyll a (mg/m²)	---	150 TVS	Cadmium(T)	5.0	---
		E. coli (per 100 mL)	---	126	Chromium III	---	TVS
		Inorganic (mg/L)			Chromium III(T)	50	---
		acute		chronic	Chromium VI	TVS	TVS
		Ammonia	TVS	TVS	Copper	TVS	TVS
		Boron	---	0.75	Iron(T)	---	1000
		Chloride	---	---	Lead	TVS	TVS
		Chlorine	0.019	0.011	Lead(T)	50	---
		Cyanide	0.005	---	Manganese	TVS	TVS
		Nitrate	10	---	Mercury(T)	---	0.01
		Nitrite	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.17 TVS	Nickel	TVS	TVS
		Sulfate	---	---	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	---
					Uranium(T)	---	16.8*
					Zinc	TVS	TVS

5a. North Walnut Creek from the western edge of the Central Operable Unit and South Walnut Creek from its source, including all tributaries and wetlands, to the eastern boundary of the Central Operable Unit.

COSPBD05A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation N	acute		chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	5.0	Beryllium(T)	---	4.0
Qualifiers:		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(T)(chronic) = See 38.6(4) for additional standards for segment 5a.		chlorophyll a (mg/m ²)	---	---	Cadmium(T)	5.0	---
		E. coli (per 100 mL)	---	630	Chromium III	---	TVS
		Inorganic (mg/L)			Chromium III(T)	50	---
		acute		chronic	Chromium VI	TVS	TVS
		Ammonia	TVS	TVS	Copper	TVS	TVS
		Boron	---	0.75	Iron(T)	---	1000
		Chloride	---	---	Lead	TVS	TVS
		Chlorine	0.019	0.011	Lead(T)	50	---
		Cyanide	0.005	---	Manganese	TVS	TVS
		Nitrate	10	---	Mercury(T)	---	0.01
		Nitrite	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.17TVS	Nickel	TVS	TVS
		Sulfate	---	---	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	---
					Uranium(T)	---	16.8*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Big Dry Creek Basin

5b. All lakes and reservoirs from the western edge of the Central Operable Unit to the eastern boundary of the Central Operable Unit and Pond C-2 on Woman Creek.						
COSPBD05B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340
	Recreation N	acute	chronic		Arsenic(T)	---
	Water Supply	D.O. (mg/L)	---	5.0	Beryllium(T)	0.02-10 ^A
Qualifiers:		pH	6.5 - 9.0	---	Cadmium	TVS
Other:		chlorophyll a (ug/L)	---	29 ^{TVS}	Cadmium(T)	5.0
<p>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Uranium(acute) = See 38.5(3) for details.</p> <p>*Uranium(T)(chronic) = See 38.6(4) for additional standards for segment 5b.</p>		E. coli (per 100 mL)	---	630	Chromium III	---
		Inorganic (mg/L)			Chromium III(T)	50
		acute	chronic		Chromium VI	TVS
		Ammonia	TVS	TVS	Copper	TVS
		Boron	---	0.75	Iron(T)	---
		Chloride	---	---	Lead	TVS
		Chlorine	0.019	0.011	Lead(T)	50
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	---	0.5	Molybdenum(T)	---
		Nitrogen	---	TVS	Nickel	TVS
		Phosphorus	---	0.083 ^{TVS}	Nickel(T)	---
		Sulfate	---	---	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
					Uranium	varies*
					Uranium(T)	---
					Zinc	TVS
						TVS
						TVS
						TVS
						TVS
						TVS
6. Upper Big Dry Creek and South Upper Big Dry Creek, from their source to Standley Lake.						
COSPBD06	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WS-I	WS-I	Arsenic	340
	Recreation E	acute	chronic		Arsenic(T)	---
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Other:		chlorophyll a (mg/m ²)	---	150 ^{TVS}	Chromium III	---
<p>*Uranium(acute) = See 38.5(3) for details.</p> <p>*Uranium(chronic) = See 38.5(3) for details.</p>		E. coli (per 100 mL)	---	126	Chromium III(T)	50
		Inorganic (mg/L)			Chromium VI	TVS
		acute	chronic		Copper	TVS
		Ammonia	TVS	TVS	Iron	---
		Boron	---	0.75	Iron(T)	1000
		Chloride	---	250	Lead	TVS
		Chlorine	0.019	0.011	Lead(T)	50
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	---	0.5	Molybdenum(T)	---
		Phosphorus	---	0.17 ^{TVS}	Nickel	TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	TVS
						varies*
						TVS
						TVS
						TVS
						TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Big Dry Creek Basin

7. Lakes and reservoirs in the Big Dry Creek system from the source to the confluence with the South Platte River, except for listings in Segments 2, 3, and 5b.						
COSPBD07	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340
	Recreation P	acute	chronic		Arsenic(T)	---
	Water Supply	D.O. (mg/L)	---	5.0	Beryllium(T)	0.02
	DUWS*	pH	6.5 - 9.0	---	Cadmium	TVS
Qualifiers:		chlorophyll a (ug/L)	---	20*DUWS	Cadmium(T)	5.0
Water + Fish Standards		chlorophyll a (ug/L)	---	TVS	Chromium III	---
Other:		E. coli (per 100 mL)	---	205	Chromium III(T)	TVS
		Inorganic (mg/L)			Chromium VI	50
		acute	chronic		Copper	---
		Ammonia	TVS	TVS	Iron	TVS
		Boron	---	0.75	Iron(T)	WS
		Chloride	---	250	Lead	---
		Chlorine	0.019	0.011	Lead(T)	TVS
		Cyanide	0.005	---	Manganese	50
		Nitrate	10	---	Mercury(T)	TVS/WS
		Nitrite	---	0.5	Molybdenum(T)	---
		Nitrogen	---	TVS*	Nickel	0.01
		Phosphorus	---	0.083TVS*	Nickel(T)	---
		Sulfate	---	WS	Selenium	100
		Sulfide	---	0.002	Silver	TVS
					Uranium	TVS
					Zinc	varies*

*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.*Classification: DUWS applies to Welton Reservoir.

*Classification: DUWSNitrogen(chronic) = applies to Welton Reservoir only: above the facilities listed at 38.5(4) and in DUWS waterbodies.

*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.) and in DUWS waterbodies.

*Uranium(acute) = See 38.5(3) for details.

*Uranium(chronic) = See 38.5(3) for details.

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Boulder Creek Basin

1. All tributaries to Boulder Creek, including all wetlands, within the Indian Peaks and James Peak Wilderness Areas.

COSPBO01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

2a. Mainstem of Boulder Creek, including all tributaries and wetlands, from the boundary of the Indian Peaks Wilderness Area to a point immediately below the confluence with North Boulder Creek, except for the specific listings in Segment 3.

COSPBO02A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 <u>TVS</u>	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4).		Inorganic (mg/L)			Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		acute		chronic	Iron(T)	---	1000
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 <u>TVS</u> *	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Boulder Creek Basin

2b. Mainstem of Boulder Creek, including all tributaries and wetlands, from a point immediately below the confluence with North Boulder Creek to a point immediately above the confluence with South Boulder Creek.						
COSPBO02B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150*TVS	Chromium III(T)	50
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)		Copper	TVS	TVS
*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 38.5(4).		acute	chronic	Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Ammonia	TVS	TVS	Iron(T)	---
*Uranium(acute) = See 38.5(3) for details.		Boron	---	0.75	Lead	TVS
*Uranium(chronic) = See 38.5(3) for details.		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Phosphorus	---	0.14TVS*	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
					Uranium	varies*
					Zinc	TVS
3. Mainstem of Middle Boulder Creek, including all tributaries and wetlands, from the source to the outlet of Barker Reservoir, except for specific listings in Segment 1.						
COSPBO03	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150*TVS	Chromium III(T)	50
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)		Copper	TVS	TVS
*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 38.5(4).		acute	chronic	Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Ammonia	TVS	TVS	Iron(T)	---
*Uranium(acute) = See 38.5(3) for details.		Boron	---	0.75	Lead	TVS
*Uranium(chronic) = See 38.5(3) for details.		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	---	0.05	Nickel	TVS
		Phosphorus	---	0.14TVS*	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS
		Sulfide	---	0.002	Silver	TVS
					Uranium	varies*
					Zinc	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Boulder Creek Basin

4a. Mainstem of South Boulder Creek, including all tributaries and wetlands, from the source to the outlet of Gross Reservoir except for specific listings in Segment 1.							
COSPBO04A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)		Iron	---	WS	
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

4b. Mainstem of South Boulder Creek, including all tributaries and wetlands, from the outlet of Gross Reservoir to South Boulder Road, except for specific listings in Segments 4c and 4d.							
COSPBO04B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450* TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)		Iron	---	WS	
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Boulder Creek Basin

4c. Mainstem of Cowdrey Drainage from the source below Cowdrey Reservoir #2 to the Davidson Ditch.

COSPBO04C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m ²)	---	150 TVS	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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.17 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

4d. Mainstem of Cowdrey Drainage from immediately downstream of the Davidson Ditch to the confluence with South Boulder Creek.

COSPBO04D	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m ²)	---	150 TVS	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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.17 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Boulder Creek Basin

5. Mainstem of South Boulder Creek from South Boulder Road to the confluence with Boulder Creek.							
COSPBO05	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (mg/m²)	---	TVS	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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

6. Mainstem of Coal Creek, including all tributaries and wetlands, from the source to Highway 93.							
COSPBO06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	150TVS	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	---	0.44TVS	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Boulder Creek Basin

7a. Mainstem of Coal Creek from Highway 93 to Highway 36 (Boulder Turnpike).							
COSPBO07A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (mg/m²)	---	150 TVS	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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.47 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
			Zinc	TVS	TVS		

7b. Mainstem of Coal Creek from Highway 36 to the confluence with Boulder Creek.							
COSPBO07B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (mg/m²)	---	TVS	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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
			Zinc	TVS	TVS		

7b. Mainstem of Coal Creek from Highway 36 to the confluence with Boulder Creek.							
COSPBO07B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m ²)	---	--- TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024			acute	chronic	Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Boulder Creek Basin

8. All tributaries to South Boulder Creek, including all wetlands from South Boulder Road to the confluence with Boulder Creek and all tributaries to Coal Creek, including all wetlands from Highway 93 to the confluence with Boulder Creek.								
COSPBO08	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
UP	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---	
	Water Supply	acute	chronic	Arsenic(T)	---	0.02		
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
Other:		chlorophyll a (mg/m²)	---	450*TVS	Chromium III	---	TVS	
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---	
Arsenic(chronic) = hybrid		Inorganic (mg/L)		Chromium VI	TVS	TVS		
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS	TVS		
*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150	
		Phosphorus	---	0.47TVS*	Nickel	TVS	TVS	
		Sulfate	---	WS	Nickel(T)	---	100	
		Sulfide	---	0.002	Selenium	TVS	TVS	
					Silver	TVS	TVS	
					Uranium	varies*	varies*	
					Zinc	TVS	TVS	
		9. Mainstem of Boulder Creek from a point immediately above the confluence with South Boulder Creek to the confluence with Coal Creek.						
		COSPBO09	Classifications	Physical and Biological			Metals (ug/L)	
		Designation	Agriculture	DM	MWAT	acute	chronic	
		Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340
Recreation E	acute		chronic	Arsenic(T)	---	0.02		
Water Supply	D.O. (mg/L)		---	5.0	Cadmium	TVS	TVS	
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
Other:		chlorophyll a (mg/m²)	---	TVS	Chromium III	---	TVS	
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---	
Arsenic(chronic) = hybrid		Inorganic (mg/L)		Chromium VI	TVS	TVS		
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS	TVS		
*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150	
		Phosphorus	---	---	Nickel	TVS	TVS	
		Sulfate	---	WS	Nickel(T)	---	100	
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Boulder Creek Basin

10. Mainstem of Boulder Creek from the confluence with Coal Creek to the confluence with St. Vrain Creek.							
COSPBO10	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute chronic			
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340 ---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0 ---	
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (mg/m²)	---	TVS	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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
		Silver	TVS	TVS			
		Uranium	varies*	varies*			
		Zinc	TVS	TVS			
11. All tributaries to Boulder Creek, including all 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.							
COSPBO11	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute chronic			
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340 ---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0 ---	
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (mg/m²)	---	TVS	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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
		Silver	TVS	TVS			
		Uranium	varies*	varies*			
		Zinc	TVS	TVS			

11. All tributaries to Boulder Creek, including all 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.							
COSPBO11	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS	TVS	
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Boulder Creek Basin

12. Deleted.						
COSPBO12	Classifications	Physical and Biological		Metals (ug/L)		
Designation		DM	MWAT	acute	chronic	
Qualifiers:		acute	chronic			
Other:						
		Inorganic (mg/L)				
		acute	chronic			
13. All lakes and reservoirs tributary to Boulder Creek that are within the boundary of the Indian Peaks and James Peak Wilderness Areas.						
COSPBO13	Classifications	Physical and Biological		Metals (ug/L)		
Designation		DM	MWAT	acute	chronic	
OW	Agriculture					
	Aq Life Cold 1	Temperature °C	CL CL	Arsenic	340	---
	Recreation E		acute chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	--- 6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	--- 7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0 ---	Chromium III	---	TVS
		chlorophyll a (ug/L)	--- 8*TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	--- 126	Chromium VI	TVS	TVS
		Inorganic (mg/L)		Copper	TVS	TVS
				Iron	---	WS
		acute	chronic	Iron(T)	---	1000
	Ammonia	TVS	TVS	Lead	TVS	TVS
	Boron	---	0.75	Lead(T)	50	---
	Chloride	---	250	Manganese	TVS	TVS/WS
	Chlorine	0.019	0.011	Mercury(T)	---	0.01
	Cyanide	0.005	---	Molybdenum(T)	---	150
	Nitrate	10	---	Nickel	TVS	TVS
	Nitrite	---	0.05	Nickel(T)	---	100
	Nitrogen	---	TVS	Selenium	TVS	TVS
	Phosphorus	---	0.025*TVS	Silver	TVS	TVS(tr)
	Sulfate	---	WS	Uranium	varies*	varies*
	Sulfide	---	0.002	Zinc	TVS	TVS

*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.
 *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.
 *Uranium(acute) = See 38.5(3) for details.
 *Uranium(chronic) = See 38.5(3) for details.

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Boulder Creek Basin

14. All lakes and reservoirs tributary to Boulder Creek from the source to a point immediately above the South Boulder Creek confluence, except as specified in Segment 13. This segment includes Barker and Lakewood Reservoir.

COSPBO14	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
	DUWS*	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (ug/L)	---	8*DUWS	Chromium III(T)	50	---
Temporary Modification(s):		chlorophyll a (ug/L)	---	TVS	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Iron	---	WS
<div>*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.*Classification: DUWS applies to Lakewood Reservoir.</div> <div>*Classification: DUWSNitrogen(chronic) = applies to Lakewood Reservoir only, above the facilities listed at 38.5(4) and in DUWS waterbodies.</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area-) and in DUWS waterbodies.</div> <div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div> <div>*Temperature = DM and MWAT=CL,CLL from 1/1-3/31 Barker Reservoir DM=CL and MWAT=16.6 from 4/1-12/31 All others DM and MWAT=CL,CLL from 4/1-12/31</div>		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS*	Selenium	TVS	TVS
		Phosphorus	---	0.025TVS*	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS

15. All lakes and reservoirs tributary to South Boulder Creek from the source to Highway 93. All lakes and reservoirs tributary to Coal Creek from the source to Highway 93 except for specific listings in segments 13 and 18.

COSPBO15	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02-10	^A
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
	DUWS*	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other: *chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.*Classification: DUWS applies to Kossler Lake. *Classification: DUWSNitrogen(chronic) = applies to Kossler Lake only, above the facilities listed at 38.5(4) and in DUWS waterbodies. *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area-) and in DUWS waterbodies. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (ug/L)	---	8*DUWS	Chromium III(T)	50	---
		chlorophyll a (ug/L)	---	TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS*	Selenium	TVS	TVS
		Phosphorus	---	0.025TVS*	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Boulder Creek Basin

16. All lakes and reservoirs tributary to South Boulder Creek system from Highway 93 to the confluence with Boulder Creek. All lakes and reservoirs tributary to Coal Creek system from Highway 93 to the confluence with Boulder Creek.

COSPBO16	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 2	WL	WL	Temperature °C	340	---	
	Recreation E	acute	chronic		---	0.02-10 ^A	
	Water Supply	---	5.0	D.O. (mg/L)	TVS	TVS	
Qualifiers:		6.5 - 9.0	---	pH	5.0	---	
Other:		---	TVS	chlorophyll a (ug/L)	---	TVS	
		---	126	E. coli (per 100 mL)	50	---	
		Inorganic (mg/L)			TVS	TVS	
		acute	chronic		TVS	TVS	
		TVS	TVS	Ammonia	---	WS	
		---	0.75	Boron	---	1000	
		---	250	Chloride	TVS	TVS	
		0.019	0.011	Chlorine	50	---	
		0.005	---	Cyanide	TVS	TVS/WS	
		10	---	Nitrate	---	0.01	
		---	0.5	Nitrite	---	150	
		---	---	Phosphorus	TVS	TVS	
		---	WS	Sulfate	---	100	
		---	0.002	Sulfide	TVS	TVS	
					TVS	TVS	
					varies*	varies*	
					TVS	TVS	

17. All lakes and reservoirs tributary to Boulder Creek from a point immediately below the confluence with South Boulder Creek to the confluence with St. Vrain Creek, except as specified in Segments 15 and 16.

COSPBO17	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 2	WL	WL	Temperature °C	340	---	
	Recreation E	acute	chronic		---	0.02	
	Water Supply	---	5.0	D.O. (mg/L)	TVS	TVS	
	DUWS*	6.5 - 9.0	---	pH	5.0	---	
Qualifiers:		---	DUWS	chlorophyll a (ug/L)	---	TVS	
Water + Fish Standards		---	TVS	chlorophyll a (ug/L)	50	---	
Other:		---	126	E. coli (per 100 mL)	TVS	TVS	
		Inorganic (mg/L)			TVS	TVS	
		acute	chronic		TVS	TVS	
		TVS	TVS	Ammonia	---	WS	
		---	0.75	Boron	---	1000	
		---	250	Chloride	TVS	TVS	
		0.019	0.011	Chlorine	50	---	
		0.005	---	Cyanide	TVS	TVS/WS	
		10	---	Nitrate	---	0.01	
		---	0.5	Nitrite	---	150	
		---	TVS*	Nitrogen	TVS	TVS	
		---	TVS*	Phosphorus	---	100	
		---	WS	Sulfate	TVS	TVS	
		---	0.002	Sulfide	TVS	TVS	
					varies*	varies*	
					TVS	TVS	

Temporary Modification(s):
 Arsenic(chronic) = hybrid
 Expiration Date of 12/31/2024
 *Classification: DUWS applies to Goosehaven Reservoir, Erie Lake, Twomile Canyon Reservoir, Baseline Reservoir, Marshall Reservoir, Thomas Reservoir, and Waneka Reservoir ~~only~~.
 *Nitrogen(chronic) = applies only to DUWS waterbodies
 *Phosphorus(chronic) = applies only to DUWS waterbodies
 *Uranium(acute) = See 38.5(3) for details.
 *Uranium(chronic) = See 38.5(3) for details.

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Boulder Creek Basin

18. Gross Reservoir.						
COSPBO18	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	varies*	varies*	Temperature °C	Arsenic	340
	Recreation E	acute	chronic		Arsenic(T)	0.02
	Water Supply	D.O. (mg/L)	6.0		Cadmium	TVS
Qualifiers: Other: *chlorophyll a (ug/L)(Nitrogen(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.) *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.) *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details. *Temperature = DM and MWAT=CLL from 1/1-3/31 DM=22.4 and MWAT=19.4 from 4/1-12/31		D.O. (spawning)	7.0		Cadmium(T)	5.0
		pH	6.5 - 9.0		Chromium III	TVS
		chlorophyll a (ug/L)	8*TVS		Chromium III(T)	50
		E. coli (per 100 mL)	126		Chromium VI	TVS
					Copper	TVS
		Inorganic (mg/L)			Iron	WS
		acute	chronic		Iron(T)	1000
		Ammonia	TVS		Lead	TVS
		Boron	0.75		Lead(T)	50
		Chloride	250		Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	0.01
		Cyanide	0.005		Molybdenum(T)	150
		Nitrate	10		Nickel	TVS
		Nitrite	0.05		Nickel(T)	100
		Nitrogen	TVS*		Selenium	TVS
		Phosphorus	0.025TVS*		Silver	TVS(tr)
		Sulfate	WS		Uranium	varies*
		Sulfide	0.002		Zinc	TVS

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

St. Vrain Creek Basin

1. All tributaries to St. Vrain Creek, including all wetlands, which are within the Indian Peaks Wilderness Area and Rocky Mountain National Park.

COSPSV01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

2a. Mainstem of St. Vrain Creek, including all tributaries and wetlands, from the boundary of the Indian Peaks Wilderness Area and Rocky Mountain National Park to the eastern boundary of Roosevelt National Forest.

COSPSV02A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 *TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
<div>*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div>		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

St. Vrain Creek Basin

2b. Mainstem of St. Vrain Creek, including all tributaries and wetlands, from the eastern boundary of Roosevelt National Forest to Hygiene Road.							
COSPSV02B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450*TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4).		Inorganic (mg/L)			Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		acute	chronic	Iron(T)	---	1000	
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44*TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
3. Mainstem of St. Vrain Creek from Hygiene Road to the confluence with the South Platte River.							
COSPSV03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Water Supply	acute	chronic	Arsenic(T)	---	0.02	
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS	TVS	
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

3. Mainstem of St. Vrain Creek from Hygiene Road to the confluence with the South Platte River.							
COSPSV03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Water Supply	acute	chronic		Arsenic(T)	---	0.02
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	---TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic		Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

St. Vrain Creek Basin

4a. Mainstem of Left Hand Creek, including all tributaries and wetlands, from the source to a point immediately below the confluence with James Creek, except for specific listings in Segment 4b.							
COSPSV04A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

4b. Mainstem of James Creek, including all tributaries and wetlands, from the source to the confluence with Left Hand Creek.							
COSPSV04B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

St. Vrain Creek Basin

4c. Mainstem of Left Hand Creek, including all tributaries and wetlands, from a point immediately below the confluence with James Creek to Highway 36.							
COSPSV04C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

5. Mainstem of Left Hand Creek, including all tributaries and wetlands from Highway 36 to the confluence with St. Vrain Creek.							
COSPSV05	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Water Supply	DM	MWAT	acute	chronic		
Reviewable	Agriculture	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Aq Life Cold 1	acute	chronic	Arsenic(T)	---	0.02	
	Recreation E	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.5	Nickel(T)	---	100
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

St. Vrain Creek Basin

6a. All tributaries to Dry Creek, including wetlands, from the source to the inlet of Boulder Reservoir.							
COSPSV06A		Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		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):		chlorophyll a (mg/m²)	---	---TVS	Chromium III(T)	---	100
Iron(chronic) = current condition*		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2023		Inorganic (mg/L)			Copper	TVS	TVS
			acute	chronic	Iron(T)	---	1000
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.		Boron	---	0.75	Manganese	TVS	TVS
*TempMod: Iron = Adopted 12/12/2016		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	---	0.5	Silver	TVS	TVS
		Phosphorus	---	---	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

6b. All tributaries to St. Vrain Creek, including 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, 4c and 5 and 6a.							
COSPSV06B		Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Water Supply		acute	chronic	Arsenic(T)	---	0.02-10 ^A
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	---TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024			acute	chronic	Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

St. Vrain Creek Basin

7. Boulder Reservoir, Coot Lake, Left Hand Valley Reservoir and Spurgeon Reservoir.

COSPSV07	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
	DUWS*	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Qualifiers:		chlorophyll a (ug/L)	---	---DUWS	Chromium III	---	TVS
Other:		chlorophyll a (ug/L)	---	TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Iron	---	WS
*Classification: DUWS applies to Boulder Reservoir, Spurgeon Reservoir, and Left Hand Valley Reservoirs only Reservoir. *Nitrogen(chronic) = applies only to DUWS waterbodies *Phosphorus(chronic) = applies only to DUWS waterbodies *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.5	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	---TVS	Silver	TVS	TVS
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS

8. All lakes and reservoirs tributary to St. Vrain Creek that are within the boundary of the Indian Peaks Wilderness Area and Rocky Mountain National Park.

COSPSV08	Classifications	Physical and Biological		Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute		chronic	
OW	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (ug/L)	---	---TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
					Iron	---	WS
					Iron(T)	---	1000
					Lead	TVS	TVS
					Lead(T)	50	---
					Manganese	TVS	TVS/WS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS
					</		

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

St. Vrain Creek Basin

9. All lakes and reservoirs tributary to St. Vrain Creek from sources to Hygiene Road, including Button Rock Reservoir, except as specified in Segment 8.							
COSPSV09	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CL,CLL	CL,CLL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<u>Public Swim Beach*</u>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (ug/L)	---	<u>TVS</u>	Chromium III(T)	50	---
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
<u>*Public Swim Beach applies to Union Reservoir.</u>		Ammonia	TVS	TVS	Lead	TVS	TVS
<u>*Nitrogen(chronic) = applies only to Public Swim Beach</u>		Boron	---	0.75	Lead(T)	50	---
<u>*Phosphorus(chronic) = applies only to Public Swim Beach</u>		Chloride	---	250	Manganese	TVS	TVS/WS
*Uranium(acute) = See 38.5(3) for details.		Chlorine	0.019	0.011	Mercury(T)	---	0.01
*Uranium(chronic) = See 38.5(3) for details.		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		<u>Nitrogen</u>	---	<u>TVS*</u>	Selenium	TVS	TVS
		Phosphorus	---	<u>TVS*</u>	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS

10. All lakes and reservoirs tributary to Left Hand Creek from sources to Highway 36.							
COSPSV10	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
	DUWS*	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (ug/L)	---	<u>8*DUWS</u>	Chromium III(T)	50	---
<u>*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.*Classification: DUWS applies to Joder Reservoir.</u>		<u>chlorophyll a (ug/L)</u>	---	<u>TVS</u>	Chromium VI	TVS	TVS
<u>*Classification: DUWSNitrogen(chronic) = applies to Joder Reservoir only, above the facilities listed at 38.5(4) and in DUWS waterbodies.</u>		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
<u>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.) and in DUWS waterbodies.</u>		Inorganic (mg/L)			Iron	---	WS
*Uranium(acute) = See 38.5(3) for details.		acute	chronic	Iron(T)	---	1000	
*Uranium(chronic) = See 38.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		<u>Nitrogen</u>	---	<u>TVS*</u>	Selenium	TVS	TVS
		Phosphorus	---	<u>0.025TVS*</u>	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS

10. All lakes and reservoirs tributary to Left Hand Creek from sources to Highway 36.							
COSPSV10	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
	DUWS*	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other: <u>*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.*Classification: DUWS applies to Joder Reservoir.</u> <u>*Classification: DUWSNitrogen(chronic) = applies to Joder Reservoir only, above the facilities listed at 38.5(4) and in DUWS waterbodies.</u> <u>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area-) and in DUWS waterbodies.</u> <u>*Uranium(acute) = See 38.5(3) for details.</u> <u>*Uranium(chronic) = See 38.5(3) for details.</u>		chlorophyll a (ug/L)	---	8*DUWS	Chromium III(T)	50	---
		<u>chlorophyll a (ug/L)</u>	---	TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		<u>Nitrogen</u>	---	TVS*	Selenium	TVS	TVS
		Phosphorus	---	0.025TVS*	Silver	TVS	TVS(tr)
Sulfate	---	WS	Uranium	varies*	varies*		
Sulfide	---	0.002	Zinc	TVS	TVS		

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

St. Vrain Creek Basin

11. Barbour Ponds.							
COSPSV11	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (ug/L)	---	TVS	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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
12. All lakes and reservoirs tributary to Left Hand Creek from Highway 36 to the confluence with St. Vrain Creek, except as specified in Segment 7.							
COSPSV12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Water + Fish Standards		chlorophyll a (ug/L)	---	TVS	Chromium III	---	TVS
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

St. Vrain Creek Basin

13. All lakes and reservoirs tributary to St. Vrain Creek from Hygiene Road to the confluence with the South Platte River, except as specified in Segments 7, 10, 11 and 12.

COSPSV13	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
	DUWS*	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Qualifiers:		chlorophyll a (ug/L)	---	--- DUWS	Chromium III	---	TVS
Other: *Classification: DUWS applies to Burch lake onlyLake. *Nitrogen(chronic) = applies only to DUWS waterbodies *Phosphorus(chronic) = applies only to DUWS waterbodies *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (ug/L)	---	TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.5	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	--- TVS	Silver	TVS	TVS
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Middle South Platte River Basin

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.						
COSPMS01A	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	varies*	varies*	Cadmium	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Ammonia(acute) = See section 38.6(4) for site-specific standards. *Ammonia(chronic) = See section 38.6(4) for site-specific standards. *Copper(acute) = Copper BLM-based FMB Cu FMB(ac)=26.4 ug/l *Copper(chronic) = Copper BLM-based FMB Cu FMB(ch)=18.0 ug/l *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details. *D.O. (mg/L)(acute) = See section 38.6(4) for site-specific standards. *D.O. (mg/L)(chronic) = See section 38.6(4) for site-specific standards.	chlorophyll a (mg/m ²)	---	TVS	Chromium III	---	TVS
	E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
	Inorganic (mg/L)		Chromium VI	TVS	TVS	TVS
	acute	chronic	Copper	26.4*	---	---
	Ammonia	TVS*	TVS*	Copper	---	18.0*
	Boron	---	0.75	Iron	---	WS
	Chloride	---	250	Iron(T)	---	1000
	Chlorine	0.019	0.011	Lead	TVS	TVS
	Cyanide	0.005	---	Lead(T)	50	---
	Nitrate	10	---	Manganese	TVS	TVS/WS
	Nitrite	---	0.5	Mercury(T)	---	0.01
	Phosphorus	---	---	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

1b. Mainstem of the South Platte River from a point immediately below the confluence with St. Vrain Creek to the Weld/Morgan County Line.						
COSPMS01B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.	chlorophyll a (mg/m ²)	---	TVS	Chromium III	---	TVS
	E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
	Inorganic (mg/L)		Chromium VI	TVS	TVS	TVS
	acute	chronic	Copper	TVS	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	---	0.5	Molybdenum(T)	---	150
	Phosphorus	---	---	Nickel	TVS	TVS
	Sulfate	---	WS	Nickel(T)	---	100
	Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Middle South Platte River Basin

2. Deleted.

COSPMS02	Classifications	Physical and Biological		Metals (ug/L)	
Designation		DM	MWAT	acute	chronic
Qualifiers:		acute	chronic		
Other:					
		Inorganic (mg/L)			
		acute	chronic		

3a. All tributaries to the South Platte River, including all wetlands, from a point immediately below the confluence with Big Dry Creek to the Weld/Morgan County line, except for listings in the subbasins of the South Platte River, and in Segments 3b, 5a, 5b, 5c, and 6.

COSPMS03A	Classifications	Physical and Biological		Metals (ug/L)			
Designation		DM	MWAT	acute	chronic		
UP	Agriculture						
	Aq Life Warm 2	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Water + Fish Standards		chlorophyll a (mg/m ²)	---	150*TVS	Chromium III	---	TVS
Other:		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Temporary Modification(s):		Inorganic (mg/L)		Chromium VI	TVS	TVS	
Arsenic(chronic) = hybrid		acute	chronic	Copper	TVS	TVS	
Expiration Date of 12/31/2024		Ammonia	TVS	TVS	Iron	---	WS
*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 38.5(4).		Boron	---	0.75	Iron(T)	---	1000
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Chloride	---	250	Lead	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Chlorine	0.019	0.011	Lead(T)	50	---
*Uranium(chronic) = See 38.5(3) for details.		Cyanide	0.005	---	Manganese	TVS	TVS/WS
		Nitrate	10	---	Mercury(T)	---	0.01
		Nitrite	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.47TVS*	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Middle South Platte River Basin

3b. Hayesmount Tributaries including the Upper Hayesmount Tributary from the source to the confluence with Box Elder Creek and the Lower Hayesmount Tributaries from the source to the Denver Hudson Canal.

COSPMS03B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	narrative*	Cadmium	TVS	TVS
<div>Other:</div> <div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div> <div>*D.O. (mg/L)(chronic) = When water is present, D.O. concentrations shall be maintained at levels that protect classified uses.</div>		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m ²)	---	450 TVS	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	---	0.5	Silver	TVS	TVS
		Phosphorus	---	0.47 TVS	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

4. Barr Lake and Milton Reservoir.

COSPMS04	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Qualifiers:		chlorophyll a (mg/m2ug/L)	---	TVS	Chromium III	---	TVS
Water + Fish Standards		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Other:		Inorganic (mg/L)			Chromium VI	TVS	TVS
Temporary Modification(s):			acute	chronic	Copper	TVS	TVS
Arsenic(chronic) = hybrid		Ammonia	TVS	TVS	Iron	---	WS
Expiration Date of 12/31/2024		Boron	---	0.75	Iron(T)	---	1000
*Uranium(acute) = See 38.5(3) for details.		Chloride	---	250	Lead	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.		Chlorine	0.019	0.011	Lead(T)	50	---
		Cyanide	0.005	---	Manganese	TVS	TVS/WS
		Nitrate	10	---	Mercury(T)	---	0.01
		Nitrite	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Middle South Platte River Basin

5a. Mainstem of Lone Tree Creek from the source to the confluence with the South Platte River.

COSPMS05A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 2	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Recreation N	acute		chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		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	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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.47TVS*	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

5b. Mainstem of Box Elder Creek from the confluence with Coyote Run to the Denver Hudson Canal.

COSPMS05B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
UP	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Recreation N	acute	chronic	Arsenic(T)	---	100	
Qualifiers:		D.O. (mg/L)	---	4.7*	Cadmium	TVS	TVS
<div>Other:</div> <div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div> <div>*D.O. (mg/L)(chronic) = 15th percentile of D.O. measurements collected between 6:30 a.m. and 6:30 p.m.</div>		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
		chlorophyll a (mg/m²)	---	---	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	10	---	Silver	TVS	TVS
		Phosphorus	---	---	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Middle South Platte River Basin

5c. Mainstems of Crow Creek and Box Elder Creek from their sources to their confluences with the South Platte River, except for listings in Segment 5b.							
COSPMS05C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Water Supply	acute	chronic		Arsenic(T)	---	0.02
	Recreation N	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	---	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	630	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic		Copper	TVS	TVS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(acute) = See 38.5(3) for details.		Boron	---	0.75	Iron(T)	---	1000
*Uranium(chronic) = See 38.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.47TVS*	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Middle South Platte River Basin

6. Lost Creek from the source to Interstate 76, including all its tributaries, stock ponds and wetlands.

COSPMS06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Recreation N		acute	chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Beryllium(T)	---	100
Other:		pH	6.5 - 9.0	---	Cadmium	---	---
		chlorophyll a (mg/m ²)	---	---	Cadmium(T)	---	10
		E. coli (per 100 mL)	---	630	Chromium III	---	---
		Inorganic (mg/L)			Chromium III(T)	---	100
			acute	chronic	Chromium VI	---	---
		Ammonia	---	---	Chromium VI(T)	---	100
		Boron	---	0.75	Copper	---	---
		Chloride	---	---	Copper(T)	---	200
		Chlorine	---	---	Iron	---	---
		Cyanide	0.2	---	Lead	---	---
		Nitrate	100	---	Lead(T)	---	100
		Nitrite	10	---	Manganese	---	---
		Phosphorus	---	0.17 IVS*	Manganese(T)	---	200
		Sulfate	---	---	Mercury(T)	---	---
		Sulfide	---	0.002	Molybdenum(T)	---	150
					Nickel	---	---
					Nickel(T)	---	200
					Selenium	---	---
					Selenium(T)	---	20
					Silver	---	---
					Uranium	varies*	varies*
					Zinc	---	---
					Zinc(T)	---	2000

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Middle South Platte River Basin

7. All lakes and reservoirs tributary to the South Platte River from a point immediately below the confluence with Big Dry Creek to the Weld/Morgan County line, except for listings in the subbasins of the South Platte River, and in segments 4 and 8.

COSPMS07	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Water + Fish Standards		chlorophyll a (mg/m2ug/L)	---	---TVS	Chromium III	---	TVS
Other:		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Temporary Modification(s):		Inorganic (mg/L)			Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid			acute	chronic	Copper	TVS	TVS
Expiration Date of 12/31/2024		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(acute) = See 38.5(3) for details.		Boron	---	0.75	Iron(T)	---	1000
*Uranium(chronic) = See 38.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

8. Riverside Reservoir.

COSPMS08	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<div>Other:</div> <div>*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.⌵</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.⌵</div> <div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div>		chlorophyll a (ug/Lmg/m²)	---	20*TVS	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	---	0.5	Molybdenum(T)	---	150
		Nitrogen	---	TVS	Nickel	TVS	TVS
		Phosphorus	---	0.083TVS*	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Big Thompson River Basin

1. Mainstem of the Big Thompson River, including all tributaries and wetlands, within Rocky Mountain National Park.								
COSPBT01	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	450TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
			acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.44TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	
		2. Mainstem of the Big Thompson River from the boundary of Rocky Mountain National Park to the Greeley-Loveland Canal Diversion (40.397884, -105.106482). All tributaries to the Big Thompson River, including all wetlands, from the boundary of Rocky Mountain National Park to the Home Supply Canal diversion (40.424430, -105.210449).						
		COSPBT02	Classifications	Physical and Biological			Metals (ug/L)	
		Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Copper(acute) = 11 ug/L from immediately above the Upper Thompson Sanitation District's wastewater treatment plant outfall to the Home Supply Canal Diversion. *Copper(chronic) = 7.5 ug/L from immediately above the Upper Thompson Sanitation District's wastewater treatment plant outfall to the Home Supply Canal Diversion. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	450*TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	---	
		Inorganic (mg/L)			Copper	---	7.5*	
			acute	chronic	Copper	11*	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)	---	150	
		Phosphorus	---	0.44TVS*	Nickel	TVS	TVS	
		Sulfate	---	WS	Nickel(T)	---	100	
		Sulfide	---	0.002	Selenium	TVS	TVS	
					Silver	TVS	TVS(tr)	
					Uranium	varies*	varies*	
					Zinc	TVS	TVS	

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Big Thompson River Basin

3. Mainstem of the Big Thompson River from the Greeley-Loveland Canal diversion (40.397884, -105.106482) to County Road 11H.						
COSPBT03	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Other:		chlorophyll a (mg/m ²)	---	TVS	Chromium III	---
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50
Arsenic(chronic) = hybrid		Inorganic (mg/L)		Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Iron	---
*Uranium(chronic) = See 38.5(3) for details.		Boron	---	0.75	Iron(T)	---
		Chloride	---	250	Lead	TVS
		Chlorine	0.019	0.011	Lead(T)	50
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	---	0.5	Molybdenum(T)	---
		Phosphorus	---	---	Nickel	TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	TVS
						TVS
4. Mainstem of the Big Thompson River from County Road 11H to I-25.						
COSPBT04	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 2	Temperature °C	WS-I	WS-I	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	7.6
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS
Fish Ingestion Standards		pH	6.5 - 9.0	---	Chromium III	TVS
Other:		chlorophyll a (mg/m ²)	---	TVS	Chromium III(T)	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
*Uranium(acute) = See 38.5(3) for details.		Inorganic (mg/L)		Copper	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Manganese	TVS
		Chloride	---	---	Mercury(T)	---
		Chlorine	0.019	0.011	Molybdenum(T)	---
		Cyanide	0.005	---	Nickel	TVS
		Nitrate	100	---	Selenium	TVS
		Nitrite	---	0.5	Silver	TVS
		Phosphorus	---	---	Uranium	varies*
		Sulfate	---	---	Zinc	TVS
		Sulfide	---	0.002		TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Big Thompson River Basin

5. Mainstem of The Big Thompson River from I-25 to the confluence with the South Platte River.							
COSPBT05	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Water Supply	acute	chronic	Arsenic(T)	---	0.02	
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS	TVS	
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
6. All tributaries to the Big Thompson River, including all wetlands, from the Home Supply Canal diversion (40.424430, -105.210449) to the confluence with the South Platte River, except for listings in segments 7, 8, 9, and 10.							
COSPBT06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
UP	Aq Life Warm 2	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Water Supply	acute	chronic	Arsenic(T)	---	0.02	
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Water + Fish Standards		chlorophyll a (mg/m²)	---	150 TVS	Chromium III	---	TVS
Other:		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Temporary Modification(s):		Inorganic (mg/L)			Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid		acute	chronic	Copper	TVS	TVS	
Expiration Date of 12/31/2024		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(acute) = See 38.5(3) for details.		Boron	---	0.75	Iron(T)	---	1000
*Uranium(chronic) = See 38.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.17 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

6. All tributaries to the Big Thompson River, including all wetlands, from the Home Supply Canal diversion (40.424430, -105.210449) to the confluence with the South Platte River, except for listings in segments 7, 8, 9, and 10.							
COSPBT06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Warm 2	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Water Supply	acute	chronic	Arsenic(T)	---	0.02	
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Qualifiers:					Chromium III	---	TVS
Water + Fish Standards		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
Other:		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Temporary Modification(s):		Inorganic (mg/L)			Copper	TVS	TVS
Arsenic(chronic) = hybrid		Ammonia	TVS	TVS	Iron	---	WS
Expiration Date of 12/31/2024		Boron	---	0.75	Iron(T)	---	1000
*Uranium(acute) = See 38.5(3) for details.		Chloride	---	250	Lead	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.		Chlorine	0.019	0.011	Lead(T)	50	---
		Cyanide	0.005	---	Manganese	TVS	TVS/WS
		Nitrate	10	---	Mercury(T)	---	0.01
		Nitrite	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.17 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Big Thompson River Basin

7. Buckhorn Creek from the source to the confluence with the Big Thompson River.						
COSPBT07	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	450*TVS	Chromium III(T)	50
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS
Expiration Date of 12/31/2024					Copper	TVS
		Inorganic (mg/L)		Iron	---	WS
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	0.44TVS*	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

*chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 38.5(4).
 *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).
 *Uranium(acute) = See 38.5(3) for details.
 *Uranium(chronic) = See 38.5(3) for details.

8. Mainstem of the Little Thompson River, including all tributaries and wetlands, from the source to the Culver Ditch diversion (40.259242, -105.200029).						
COSPBT08	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	450TVS	Chromium III(T)	50
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS
Expiration Date of 12/31/2024					Copper	TVS
		Inorganic (mg/L)		Iron	---	WS
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.05	Nickel(T)	---
		Phosphorus	---	0.44TVS	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					Zinc	TVS

*Uranium(acute) = See 38.5(3) for details.
 *Uranium(chronic) = See 38.5(3) for details.

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Big Thompson River Basin

9. Mainstem of the Little Thompson River from the Culver Ditch diversion (40.259242, -105.200029) to the confluence with the Big Thompson River.						
COSPBT09	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Other:		chlorophyll a (mg/m ²)	---	150*TVS	Chromium III	---
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50
Arsenic(chronic) = hybrid		Inorganic (mg/L)		Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS	TVS
*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 38.5(4).		Ammonia	TVS	TVS	Iron	---
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Boron	---	0.75	Iron(T)	---
*Uranium(acute) = See 38.5(3) for details.		Chloride	---	250	Lead	TVS
*Uranium(chronic) = See 38.5(3) for details.		Chlorine	0.019	0.011	Lead(T)	50
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	---	0.5	Molybdenum(T)	---
		Phosphorus	---	0.47TVS*	Nickel	TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	TVS
						TVS

10. All tributaries to the Little Thompson River, including all wetlands, from the Culver Ditch diversion (40.259242, -105.200029) to the confluence with the Big Thompson River.						
COSPBT10	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS
Other:		pH	6.5 - 9.0	---	Chromium III	TVS
*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 38.5(4).		chlorophyll a (mg/m ²)	---	150*TVS	Chromium III(T)	---
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		E. coli (per 100 mL)	---	126	Chromium VI	TVS
*Uranium(acute) = See 38.5(3) for details.		Inorganic (mg/L)		Copper	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Manganese	TVS
		Chloride	---	---	Mercury(T)	---
		Chlorine	0.019	0.011	Molybdenum(T)	---
		Cyanide	0.005	---	Nickel	TVS
		Nitrate	100	---	Selenium	TVS
		Nitrite	---	0.5	Silver	TVS
		Phosphorus	---	0.47TVS*	Uranium	varies*
		Sulfate	---	---	Zinc	TVS
		Sulfide	---	0.002		TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Big Thompson River Basin

11. Carter Lake.						
COSPBT11	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	varies*	varies*	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	6.0	Cadmium	TVS	TVS
	DUWS	D.O. (spawning)	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	Chromium III	---	TVS
Other:		chlorophyll a (ug/L)	---	Chromium III(T)	50	---
		<u>chlorophyll a (ug/L)</u>	---	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	126	Copper	TVS	TVS
		Inorganic (mg/L)		Iron	---	WS
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	Lead	TVS	TVS
		Boron	0.75	Lead(T)	50	---
		Chloride	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	Mercury(T)	---	0.01
		Cyanide	0.005	Molybdenum(T)	---	150
		Nitrate	10	Nickel	TVS	TVS
		Nitrite	0.05	Nickel(T)	---	100
		<u>Nitrogen</u>	---	Selenium	TVS	TVS
		Phosphorus	---	Silver	TVS	TVS(tr)
		Sulfate	WS	Uranium	varies*	varies*
		Sulfide	0.002	Zinc	TVS	TVS

*Uranium(acute) = See 38.5(3) for details.
 *Uranium(chronic) = See 38.5(3) for details.
 *Temperature =
 DM and MWAT=CLL from 1/1-3/31
 DM=22.4 and MWAT=22.7 from 4/1-12/31

12. Lake Loveland, Horseshoe Lake, Boyd Lake.						
COSPBT12	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1	WL	WL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	5.0	Cadmium	TVS	TVS
	DUWS*	pH	6.5 - 9.0	Cadmium(T)	5.0	---
Qualifiers:		chlorophyll a (ug/L)	---	Chromium III	---	TVS
Other:		<u>chlorophyll a (ug/L)</u>	---	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	Iron(T)	---	1000
		Boron	0.75	Lead	TVS	TVS
		Chloride	250	Lead(T)	50	---
		Chlorine	0.019	Manganese	TVS	TVS/WS
		Cyanide	0.005	Mercury(T)	---	0.01
		Nitrate	10	Molybdenum(T)	---	150
		Nitrite	0.5	Nickel	TVS	TVS
		<u>Nitrogen</u>	---	Nickel(T)	---	100
		Phosphorus	---	Selenium	TVS	TVS
		Sulfate	WS	Silver	TVS	TVS
		Sulfide	0.002	Uranium	varies*	varies*
				Zinc	TVS	TVS

Temporary Modification(s):
 Arsenic(chronic) = hybrid
 Expiration Date of 12/31/2024

*Classification: DUWS Applies to Boyd Lake and Lake Loveland Lakes only.
*Nitrogen(chronic) = applies only to DUWS waterbodies
*Phosphorus(chronic) = applies only to DUWS waterbodies
 *Uranium(acute) = See 38.5(3) for details.
 *Uranium(chronic) = See 38.5(3) for details.

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Big Thompson River Basin

13. Berthoud Reservoir, Johnstown Reservoir.						
COSPBT13	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340
	Recreation E	acute	chronic		Arsenic(T)	---
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS
	DUWS	pH	6.5 - 9.0	---	Cadmium(T)	5.0
Qualifiers:		chlorophyll a (ug/L)	---	---DUWS	Chromium III	---
Water + Fish Standards		chlorophyll a (ug/L)	---	TVS	Chromium III(T)	50
Other:		E. coli (per 100 mL)	---	126	Chromium VI	TVS
					Copper	TVS
					Iron	---
		Inorganic (mg/L)			Iron(T)	---
		acute	chronic		Lead	TVS
		Ammonia	TVS	TVS	Lead(T)	50
		Boron	---	0.75	Manganese	TVS
		Chloride	---	250	Mercury(T)	---
		Chlorine	0.019	0.011	Molybdenum(T)	---
		Cyanide	0.005	---	Nickel	TVS
		Nitrate	10	---	Nickel(T)	---
		Nitrite	---	0.5	Selenium	TVS
		Nitrogen	---	TVS	Silver	TVS
		Phosphorus	---	---TVS	Uranium	varies*
		Sulfate	---	WS	Zinc	TVS
		Sulfide	---	0.002		
14. Welch Reservoir, Lonetree Reservoir, Boedecker Lake, Lon Hagler Reservoir.						
COSPBT14	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340
	Recreation E	acute	chronic		Arsenic(T)	---
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS
	DUWS*	pH	6.5 - 9.0	---	Cadmium(T)	5.0
Qualifiers:		chlorophyll a (ug/L)	---	---DUWS	Chromium III	---
Other:		chlorophyll a (ug/L)	---	TVS	Chromium III(T)	50
		E. coli (per 100 mL)	---	126	Chromium VI	TVS
					Copper	TVS
		Inorganic (mg/L)			Iron	---
		acute	chronic		Iron(T)	---
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	---	0.5	Nickel(T)	---
		Nitrogen	---	TVS*	Selenium	TVS
		Phosphorus	---	---TVS*	Silver	TVS
		Sulfate	---	WS	Uranium	varies*
		Sulfide	---	0.002	Zinc	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Big Thompson River Basin

15. All lakes and reservoirs tributary to the Big Thompson River within Rocky Mountain National Park.							
COSPBT15	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT	acute	chronic	
OW	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (ug/L)	---	--TVS -	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
					Iron(T)	---	1000
					Lead	TVS	TVS
					Lead(T)	50	---
					Manganese	TVS	TVS/WS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS
		16. All lakes and reservoirs tributary to the Big Thompson River from the boundary of Rocky Mountain National Park to the Home Supply Canal diversion (40.424430, -105.210449). This segment includes Lake Estes and St Mary's Lake.					
COSPBT16	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CL,CLL	CL,CLL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
	DUWS*	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (ug/L)	---	DUWS -	Chromium III(T)	50	---
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Classification: DUWS applies to St. Mary's Lake and Mirror Lake only . *Nitrogen(chronic) = applies only to DUWS waterbodies *Phosphorus(chronic) = applies only to DUWS waterbodies *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (ug/L)	---	TVS	Chromium VI	TVS	TVS
		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
					Iron(T)	---	1000
					Lead	TVS	TVS
					Lead(T)	50	---
					Manganese	TVS	TVS/WS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

16. All lakes and reservoirs tributary to the Big Thompson River from the boundary of Rocky Mountain National Park to the Home Supply Canal diversion (40.424430, -105.210449). This segment includes Lake Estes and St Mary's Lake.							
COSPBT16	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CL,CLL	CL,CLL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
	DUWS*	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (ug/L)	---	DUWS -	Chromium III(T)	50	---
Temporary Modification(s):		chlorophyll a (ug/L)	---	TVS	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Copper	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Iron	---	WS
*Classification: DUWS applies to St. Mary's Lake and Mirror Lake only .			acute	chronic	Iron(T)	---	1000
*Nitrogen(chronic) = applies only to DUWS waterbodies		Ammonia	TVS	TVS	Lead	TVS	TVS
*Phosphorus(chronic) = applies only to DUWS waterbodies		Boron	---	0.75	Lead(T)	50	---
*Uranium(acute) = See 38.5(3) for details.		Chloride	---	250	Manganese	TVS	TVS/WS
*Uranium(chronic) = See 38.5(3) for details.		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS*	Selenium	TVS	TVS
		Phosphorus	---	TVS*	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Big Thompson River Basin

17. All lakes and reservoirs tributary to the Big Thompson River from the Home Supply Canal diversion (40.424430, -105.210449) to the confluence with the South Platte River, except for listings in segments 12, 14, 18, and 19.

COSPBT17	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
	DUWS*	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Qualifiers:		chlorophyll a (ug/L)	---	--- DUWS	Chromium III	---	TVS
Water + Fish Standards		<u>chlorophyll a (ug/L)</u>	---	<u>TVS</u>	Chromium III(T)	50	---
Other:		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Temporary Modification(s):					Copper	TVS	TVS
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Iron	---	WS
Expiration Date of 12/31/2024		acute		chronic	Iron(T)	---	1000
*Classification: DUWS applies to Pinewood Lake only.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Nitrogen(chronic) = applies only to DUWS waterbodies		Boron	---	0.75	Lead(T)	50	---
*Phosphorus(chronic) = applies only to DUWS waterbodies		Chloride	---	250	Manganese	TVS	TVS/WS
*Uranium(acute) = See 38.5(3) for details.		Chlorine	0.019	0.011	Mercury(T)	---	0.01
*Uranium(chronic) = See 38.5(3) for details.		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.5	Nickel(T)	---	100
		<u>Nitrogen</u>	---	<u>TVS*</u>	Selenium	TVS	TVS
		Phosphorus	---	--- TVS*	Silver	TVS	TVS
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS

18. All lakes and reservoirs tributary to the Little Thompson River from the source to the Culver Ditch diversion (40.259242, -105.200029).

COSPBT18	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (ug/L)	---	TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
				Iron	---	WS	
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Big Thompson River Basin

19. All lakes and reservoirs tributary to the Little Thompson River from the Culver Ditch diversion (40.259242, -105.200029) to the confluence with the Big Thompson River, except for listings in segments 11 and 13.

COSPBT19	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 1	WL		WL	Arsenic		---
	Recreation E	acute		chronic	Arsenic(T)		0.02
	Water Supply	D.O. (mg/L)		---	Cadmium		TVS
Qualifiers:		pH		6.5 - 9.0	Cadmium(T)		---
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (ug/L)		---	Chromium III		TVS
		E. coli (per 100 mL)		---	Chromium III(T)		---
		Inorganic (mg/L)			Chromium VI		TVS
		acute		chronic	Copper		TVS
		Ammonia		TVS	Iron		WS
		Boron		---	Iron(T)		1000
		Chloride		---	Lead		TVS
		Chlorine		0.019	Lead(T)		---
		Cyanide		0.005	Manganese		TVS/WS
		Nitrate		10	Mercury(T)		0.01
		Nitrite		---	Molybdenum(T)		150
		Phosphorus		---	Nickel		TVS
		Sulfate		---	Nickel(T)		100
		Sulfide		---	Selenium		TVS
					Silver		TVS
					Uranium		varies*
					Zinc		TVS

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Cache La Poudre River Basin

1. Mainstem of the Cache La Poudre River, including all tributaries and wetlands, within Rocky Mountain National Park and the Rawah, Neota, Comanche Peak, and Cache La Poudre Wilderness Areas.

COSPCP01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

2a. Mainstem of the Cache La Poudre River, including all tributaries and wetlands, from the boundaries of Rocky Mountain National Park and the Rawah, Neota, Comanche Peak, and Cache La Poudre Wilderness Areas to a point immediately below the confluence with the South Fork Cache La Poudre River.

COSPCP02A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
<div>*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div>		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Cache La Poudre River Basin

2b. Mainstem of the Cache La Poudre River, including all tributaries and wetlands, from a point immediately below the confluence with the South Fork Cache La Poudre River to the Munroe Gravity Canal Headgate (also known as the North Poudre Supply Canal diversion; 40.691700, -105.255292), except for listings in segments 1 and 3.

COSPCP02B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	450 TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

3. Elkhorn Creek, including all tributaries and wetlands, from the source to a point immediately above the confluence with Manhattan Creek.

COSPCP03	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM		MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute		chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS	
		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---	
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
					Copper	TVS	TVS	
		Inorganic (mg/L)			Iron	---	WS	
				acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS	
		Boron	---	0.75	Lead(T)	50	---	
		Chloride	---	250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	10	---	Nickel	TVS	TVS	
		Nitrite	---	0.05	Nickel(T)	---	100	
		Phosphorus	---	0.44 TVS	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Cache La Poudre River Basin

4. Deleted.				
COSPCP04	Classifications	Physical and Biological		Metals (ug/L)
Designation		DM	MWAT	acute chronic
Qualifiers:		acute	chronic	
Other:				
		Inorganic (mg/L)		
		acute	chronic	
5. Deleted.				
COSPCP05	Classifications	Physical and Biological		Metals (ug/L)
Designation		DM	MWAT	acute chronic
Qualifiers:		acute	chronic	
Other:				
		Inorganic (mg/L)		
		acute	chronic	

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Cache La Poudre River Basin

6. North Fork of the Cache La Poudre River, including all tributaries and wetlands, from the source to the inlet of Halligan Reservoir.							
COSPCP06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	450 TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

7. North Fork of the Cache La Poudre River, including all tributaries and wetlands, from the inlet of Halligan Reservoir to the confluence with the Cache La Poudre River, except for listings in segments 8 and 20.							
COSPCP07	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Cache La Poudre River Basin

8. Middle Fork Rabbit Creek, including all tributaries and wetlands, from the source to the confluence with Rabbit Creek. Stonewall Creek, including all tributaries and wetlands, from the source to the confluence with the North Fork of the Cache La Poudre River. North Fork Lone Pine Creek and South Fork Lone Pine Creek, including all tributaries and wetlands, from the source to the confluence with Lone Pine Creek.

COSPCP08	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	150*TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
<div>*chlorophyll a (mg/m2)(chronic)= applies only above the facilities listed at 38.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div>		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.14*TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

9. Deleted.

COSPCP09	Classifications	Physical and Biological		Metals (ug/L)	
Designation		DM	MWAT	acute	chronic
Qualifiers:		acute	chronic		
Other:					
		Inorganic (mg/L)			
		acute	chronic		

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Cache La Poudre River Basin

10a. Mainstem of the Cache La Poudre River from the Munroe Gravity Canal Headgate (also known as the North Poudre Supply Canal diversion; 40.691700, -105.255292) to a point immediately above the Larimer County Ditch diversion (40.656612, -105.185244).

COSPCP10A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

10b. Mainstem of the Cache La Poudre River from a point immediately above the Larimer County Ditch diversion (40.656612, -105.185244) to Shields Street in Ft. Collins, Colorado.

COSPCP10B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute	chronic	
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Water + Fish Standards		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m ²)	---	TVS	Chromium III(T)	50	---
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Iron	---	WS
		acute	chronic		Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Cache La Poudre River Basin

11. Mainstem of the Cache La Poudre River from Shields Street in Ft. Collins to Prospect Road.								
COSPCP11	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340		
	Water Supply*	acute	chronic	Arsenic(T)	---	0.02*		
	Recreation E	D.O. (mg/L)	---	6.0	Arsenic(T)	---	7.6	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	TVS		
Other: *Classification: effective 12/31/2025 *Chloride(chronic) = effective 12/31/2025 *Nitrate(acute) = effective 12/31/2025 *Nitrite(acute) = effective 12/31/2025 *Sulfate(chronic) = effective 12/31/2025 *Arsenic(T)(chronic) = effective 12/31/2025 *Cadmium(T)(acute) = effective 12/31/2025 *Chromium III(T)(acute) = effective 12/31/2025 *Iron(chronic) = effective 12/31/2025 *Lead(T)(acute) = effective 12/31/2025 *Manganese(chronic) = effective 12/31/2025 *Nickel(T)(chronic) = effective 12/31/2025 *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Cadmium(T)	5.0*	---	
		chlorophyll a (mg/m²)	---	---	TVS	Chromium III	TVS	TVS
		E. coli (per 100 mL)	---	126	Chromium III(T)	50*	100	
		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	
		Cyanide	0.005	---	Manganese	---	WS*	
		Nitrate	10*	---	Mercury(T)	---	0.01	
		Nitrate	100	---	Molybdenum(T)	---	150	
		Nitrite	1*	2.7	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		

12a. Mainstem of the Cache La Poudre River from Prospect Road to U.S. Hwy 85 in Greeley.								
COSPCP12A	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340		
	Water Supply*	acute	chronic	Arsenic(T)	---	0.02*		
	Recreation E	D.O. (mg/L)	---	5.0	Arsenic(T)	---	7.6	
Qualifiers:		pH	6.5 - 9.0	---	Cadmium	TVS		
Other: *Classification: effective 12/31/2025 *Chloride(chronic) = effective 12/31/2025 *Nitrate(acute) = effective 12/31/2025 *Nitrite(acute) = effective 12/31/2025 *Sulfate(chronic) = effective 12/31/2025 *Arsenic(T)(chronic) = effective 12/31/2025 *Cadmium(T)(acute) = effective 12/31/2025 *Chromium III(T)(acute) = effective 12/31/2025 *Iron(chronic) = effective 12/31/2025 *Lead(T)(acute) = effective 12/31/2025 *Manganese(chronic) = effective 12/31/2025 *Nickel(T)(chronic) = effective 12/31/2025 *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (mg/m²)	---	---	TVS	Cadmium(T)	5.0*	---
		E. coli (per 100 mL)	---	126	Chromium III	TVS	TVS	
		Inorganic (mg/L)			Chromium III(T)	50*	100	
		acute	chronic	Chromium VI	TVS	TVS		
		Ammonia	TVS	TVS	Copper	TVS	TVS	
		Boron	---	0.75	Iron	---	WS*	
		Chloride	---	250*	Iron(T)	---	1000	
		Chlorine	0.019	0.011	Lead	TVS	TVS	
		Cyanide	0.005	---	Lead(T)	50*	---	
		Nitrate	10*	---	Manganese	TVS	TVS	
		Nitrate	100	---	Manganese	---	WS*	
		Nitrite	1*	2.7	Mercury(T)	---	0.01	
		Phosphorus	---	---	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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Cache La Poudre River Basin

12b. Mainstem of the Cache La Poudre River from U.S. Hwy 85 in Greeley to the confluence with the South Platte River.								
COSPCP12B		Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340	---	
	Recreation E		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	
		chlorophyll a (mg/m²)	---	TVS	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	---	2.7	Silver	TVS	TVS	
		Phosphorus	---	---	Uranium	varies*	varies*	
		Sulfate	---	---	Zinc	TVS	TVS	
		Sulfide	---	0.002				
		13a. All tributaries to the Cache La Poudre River, including all wetlands, from the Munroe Gravity Canal Headgate (also known as the North Poudre Supply Canal diversion; 40.691700, -105.255292) to the confluence with the South Platte River, except for listings in segments 6, 7, 8, 13b, and 13c.						
		COSPCP13A		Classifications	Physical and Biological			Metals (ug/L)
Designation	Agriculture		DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340	---	
	Recreation E		acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
Other:		chlorophyll a (mg/m²)	---	TVS	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	---	0.5	Molybdenum(T)	---	150	
		Phosphorus	---	TVS	Nickel	TVS	TVS	
		Sulfate	---	WS	Nickel(T)	---	100	
		Sulfide	---	0.002	Selenium	TVS	TVS	
					Silver	TVS	TVS	
					Uranium	varies*	varies*	
					Zinc	TVS	TVS	

13a. All tributaries to the Cache La Poudre River, including all wetlands, from the Munroe Gravity Canal Headgate (also known as the North Poudre Supply Canal diversion; 40.691700, -105.255292) to the confluence with the South Platte River, except for listings in segments 6, 7, 8, 13b, and 13c.							
COSPCP13A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	150 TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic		Copper	TVS	TVS
<div>*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div>		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.17 TVS*	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Cache La Poudre River Basin

13b. Mainstem of Boxelder Creek from its source to a point immediately above Slab Canyon Wash. Mainstems of South Branch of Boxelder Creek, North Branch of Boxelder Creek, and Sand Creek from their sources to their confluences with the mainstem of Boxelder Creek.

COSPCP13B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	150 TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.11 TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
Sulfide	---	0.002	Uranium	varies*	varies*		
			Zinc	TVS	TVS		

13c. Mainstem of Boxelder Creek from a point immediately above Slab Canyon Wash to the confluence with the Cache La Poudre River.

COSPCP13C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Water Supply	acute		chronic	Arsenic(T)	---	0.02
	Recreation P	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m ²)	---	150 *TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	205	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute		chronic	Copper	TVS	TVS
<div>*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).</div> <div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div>		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.17 TVS*	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Cache La Poudre River Basin

14. Horsetooth Reservoir.

COSPCP14	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	varies* varies* ^B	Arsenic	340 ---
	Recreation E	acute	chronic	Arsenic(T)	--- 0.02
	Water Supply	D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS
	DUWS	D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---
Qualifiers:		pH	6.5 - 9.0 ---	Chromium III	--- TVS
Other:		chlorophyll a (ug/L)	--- ---DUWS	Chromium III(T)	50 ---
		<u>chlorophyll a (ug/L)</u>	--- <u>TVS</u>	Chromium VI	TVS TVS
		E. coli (per 100 mL)	--- 126	Copper	TVS TVS
		Inorganic (mg/L)		Iron	--- WS
		acute	chronic	Iron(T)	--- 1000
		Ammonia	TVS TVS	Lead	TVS TVS
		Boron	--- 0.75	Lead(T)	50 ---
		Chloride	--- 250	Manganese	TVS TVS/WS
		Chlorine	0.019 0.011	Mercury(T)	--- 0.01
		Cyanide	0.005 ---	Molybdenum(T)	--- 150
		Nitrate	10 ---	Nickel	TVS TVS
		Nitrite	--- 0.05	Nickel(T)	--- 100
		<u>Nitrogen</u>	--- <u>TVS</u>	Selenium	TVS TVS
		Phosphorus	--- ---TVS	Silver	TVS TVS(tr)
		Sulfate	--- WS	Uranium	varies* varies*
		Sulfide	--- 0.002	Zinc	TVS TVS

15. Watson Lake.

COSPCP15	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CL CL	Arsenic	340 ---
	Recreation E	acute	chronic	Arsenic(T)	--- 0.02
	Water Supply	D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS
Qualifiers:		D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---
Other:		pH	6.5 - 9.0 ---	Chromium III	--- TVS
		chlorophyll a (ug/L)	--- ---TVS	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

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Cache La Poudre River Basin

16. Reservoir #4 (40.719045, -105.033743), Water Supply Reservoir #3 (40.665205, -105.089882), Claymore Lake, College Lake, Dixon Reservoir, Robert Benson Lake, Black Hollow Reservoir, Seeley Lake.

COSPCP16	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
UP	Aq Life Warm 1	WL		WL	340		---
	Recreation E	acute		chronic	---		7.6
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other:		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
<p>*chlorophyll a (ug/L)(Nitrogen(chronic) = applies only above the facilities listed at 38.5(4); applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4); applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Uranium(acute) = See 38.5(3) for details.</p> <p>*Uranium(chronic) = See 38.5(3) for details.</p>		chlorophyll a (ug/L)	---	29*TVS	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	---	0.5	Silver	TVS	TVS
		Nitrogen	---	TVS*	Uranium	varies*	varies*
		Phosphorus	---	0.083TVS*	Zinc	TVS	TVS
		Sulfate	---	---			
		Sulfide	---	0.002			

17. All lakes and reservoirs tributary to the Cache La Poudre River within Rocky Mountain National Park and the Rawah, Neota, Comanche Peak, and Cache La Poudre Wilderness Areas.

COSPCP17	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
OW	Aq Life Cold 1	CL		CL	340		---
	Recreation E	acute		chronic	---		0.02
	Water Supply	D.O. (mg/L)		6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
<p>*Uranium(acute) = See 38.5(3) for details.</p> <p>*Uranium(chronic) = See 38.5(3) for details.</p>		chlorophyll a (ug/L)	---	TVS	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

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Cache La Poudre River Basin

18. All lakes and reservoirs tributary to the Cache La Poudre River from the boundaries of Rocky Mountain National Park and the Rawah, Neota, Comanche Peak, and Cache La Poudre Wilderness Areas to the Munroe Gravity Canal Headgate (also known as the North Poudre Supply Canal diversion; 40.691700, -105.255292).

COSPCP18	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
<div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div> <div>*Temperature = See 38.6(4) for temperature standards.</div>		chlorophyll a (ug/L)	---	8*TVS	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
		<u>Nitrogen</u>	---	TVS	Nickel(T)	---	100
		Phosphorus	---	0.025*TVS	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
			Zinc	TVS	TVS		

19. All lakes and reservoirs tributary to the North Fork of the Cache La Poudre River from the source to the inlet of Halligan Reservoir.

COSPCP19	Classifications	Physical and Biological		Metals (ug/L)				
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS	
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
Other: *chlorophyll a (ug/L)(Nitrogen)(chronic) = applies only above the facilities listed at 38.5(4); applies only to lakes and reservoirs larger than 25 acres surface area-). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4); applies only to lakes and reservoirs larger than 25 acres surface area-). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (ug/L)	---	8*TVS	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	
		Nitrogen	---	TVS*	Nickel(T)	---	100	
		Phosphorus	---	0.025TVS*	Selenium	TVS	TVS	
		Sulfate	---	WS	Silver	TVS	TVS(tr)	
		Sulfide	---	0.002	Uranium	varies*	varies*	
					Zinc	TVS	TVS	

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Cache La Poudre River Basin

20. All lakes and reservoirs tributary to the North Fork of the Cache La Poudre River from the inlet of Halligan Reservoir to the confluence with the Cache La Poudre River. This segment includes Halligan Reservoir and Seaman Reservoir.

COSPCP20	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 2	Temperature °C	varies*	varies*	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Water + Fish Standards		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---
Other: *chlorophyll a (ug/L)(Nitrogen(chronic) = applies only above the facilities listed at 38.5(4); applies only to lakes and reservoirs larger than 25 acres surface area-.) *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4); applies only to lakes and reservoirs larger than 25 acres surface area-.) *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details. *Temperature = DM and MWAT=CL,CLL from 1/1-3/31 Seaman Reservoir DM=CLL and MWAT=22.5 from 4/1-12/31 All others DM and MWAT=CL,CLL from 4/1-12/31		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
		Nitrogen	---	TVS*	Nickel(T)	---	100
		Phosphorus	---	0.025TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

21. All lakes and reservoirs tributary to the Cache La Poudre River from the Munroe Gravity Canal Headgate (also known as the North Poudre Supply Canal diversion; 40.691700, -105.255292) to the confluence with the South Platte River, except for listings in segments 14, 15, 16, 19, 20, and 22.

COSPCP21	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
	DUWS*	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Qualifiers:		chlorophyll a (ug/L)	---	20*DUWS	Chromium III	---	TVS
Other: *chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4); applies only to lakes and reservoirs larger than 25 acres surface area.*Classification: DUWS applies to North Poudre Reservoir No. 3. *Classification: DUWSNitrogen(chronic) = applies to North Poudre Reservoir No. 3 only; above the facilities listed at 38.5(4) and in DUWS waterbodies. *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4); applies only to lakes and reservoirs larger than 25 acres surface area-) and in DUWS waterbodies. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (ug/L)	---	TVS	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	---	0.5	Nickel	TVS	TVS
		Nitrogen	---	TVS*	Nickel(T)	---	100
		Phosphorus	---	0.083TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS
		Sulfide	---	0.002	Uranium	varies*	varies*
			Zinc	TVS	TVS		

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Cache La Poudre River Basin

22. Fossil Creek Reservoir.							
COSPCP22	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Warm 2	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	7.6	
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Fish Ingestion Standards		pH	6.5 - 9.0	---	Chromium III	TVS	TVS
Other:		chlorophyll a (ug/L)	---	TVS	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	---	0.5	Silver	TVS	TVS
		Phosphorus	---	---	Uranium	varies*	varies*
		Sulfate	---	---	Zinc	TVS	TVS
		Sulfide	---	0.002			

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Laramie River Basin

1. All tributaries to the Laramie River, including all wetlands, which are within the Rawah Wilderness Area.

COSPLA01	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
OW	Aq Life Cold 1	Temperature °C	CS-I CS-I	Arsenic	340 ---
	Recreation E	acute	chronic	Arsenic(T)	--- 0.02
	Water Supply	D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS
Qualifiers:		D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---
Other:		pH	6.5 - 9.0 ---	Chromium III	--- TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	--- TVS	Chromium III(T)	50 ---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	--- 126	Chromium VI	TVS TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)		Copper	TVS TVS
*Uranium(acute) = See 38.5(3) for details.		acute		Iron	--- WS
*Uranium(chronic) = See 38.5(3) for details.		chronic		Iron(T)	--- 1000
		Ammonia	TVS TVS	Lead	TVS TVS
		Boron	--- 0.75	Lead(T)	50 ---
		Chloride	--- 250	Manganese	TVS TVS/WS
		Chlorine	0.019 0.011	Mercury(T)	--- 0.01
		Cyanide	0.005 ---	Molybdenum(T)	--- 150
		Nitrate	10 ---	Nickel	TVS TVS
		Nitrite	--- 0.05	Nickel(T)	--- 100
		Phosphorus	--- TVS	Selenium	TVS TVS
		Sulfate	--- WS	Silver	TVS TVS(tr)
		Sulfide	--- 0.002	Uranium	varies* varies*
				Zinc	TVS TVS

2a. Mainstem of the Laramie River from the source to the National Forest boundary, and all tributaries and wetlands from the source to the Colorado/Wyoming border, except for listings in Segment 1.

COSPLA02A	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I CS-I	Arsenic	340 ---
	Recreation E	acute	chronic	Arsenic(T)	--- 0.02
	Water Supply	D.O. (mg/L)	--- 6.0	Cadmium	TVS TVS
Qualifiers:		D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---
Other:		pH	6.5 - 9.0 ---	Chromium III	--- TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	--- TVS	Chromium III(T)	50 ---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	--- 126	Chromium VI	TVS TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)		Copper	TVS TVS
*Uranium(acute) = See 38.5(3) for details.		acute		Iron	--- WS
*Uranium(chronic) = See 38.5(3) for details.		chronic		Iron(T)	--- 1000
		Ammonia	TVS TVS	Lead	TVS TVS
		Boron	--- 0.75	Lead(T)	50 ---
		Chloride	--- 250	Manganese	TVS TVS/WS
		Chlorine	0.019 0.011	Mercury(T)	--- 0.01
		Cyanide	0.005 ---	Molybdenum(T)	--- 150
		Nitrate	10 ---	Nickel	TVS TVS
		Nitrite	--- 0.05	Nickel(T)	--- 100
		Phosphorus	--- TVS	Selenium	TVS TVS
		Sulfate	--- WS	Silver	TVS TVS(tr)
		Sulfide	--- 0.002	Uranium	varies* varies*
				Zinc	TVS TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Laramie River Basin

2b. Mainstem of the Laramie River from the National Forest boundary to the Colorado/Wyoming border.							
COSPLA02B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m²)	---	TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS
3. All lakes and reservoirs tributary to the Laramie River within the Rawah Wilderness Area.							
COSPLA03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
OW	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.					Copper	TVS	TVS
*Uranium(chronic) = See 38.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS

3. All lakes and reservoirs tributary to the Laramie River within the Rawah Wilderness Area.							
COSPLA03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
OW	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
<div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div>		chlorophyll a (ug/L)	---	8*TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Nitrogen	---	TVS	Selenium	TVS	TVS
		Phosphorus	---	0.025*TVS	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
Sulfide	---	0.002	Zinc	TVS	TVS		

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Laramie River Basin

4. All lakes and reservoirs tributary to the Laramie River from the source to the Colorado/Wyoming border, except for listings in Segment 3.							
COSPLA04	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
<div>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</div> <div>*Uranium(acute) = See 38.5(3) for details.</div> <div>*Uranium(chronic) = See 38.5(3) for details.</div>		chlorophyll a (ug/L)	---	8±TVS	Chromium III(T)	50	---
		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
					Inorganic (mg/L)		
					Iron	---	WS
					Iron(T)	---	1000
					Lead	TVS	TVS
					Lead(T)	50	---
					Manganese	TVS	TVS/WS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Sulfate	varies*	varies*
				Sulfide	---	0.002	
				Zinc	TVS	TVS	

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower South Platte River Basin

1a. Mainstem of the South Platte River from the Weld/Morgan County line to the Morgan/Washington County line.							
COSPLS01A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS	TVS	
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS

1b. Mainstem of the South Platte River from the Morgan/Washington County line to the Colorado/Nebraska border.							
COSPLS01B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Water + Fish Standards		chlorophyll a (mg/m²)	---	TVS	Chromium III	---	TVS
Other:		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Temporary Modification(s):		Inorganic (mg/L)			Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid		acute	chronic	Copper	TVS	TVS	
Expiration Date of 12/31/2024		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(acute) = See 38.5(3) for details.		Boron	---	0.75	Iron(T)	---	1000
*Uranium(chronic) = See 38.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower South Platte River Basin

2. All tributaries to the South Platte River, including all wetlands, from the Weld/Morgan County line to the Colorado/Nebraska border.						
COSPLS02	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Beryllium(T)	---
Qualifiers:		pH	6.5 - 9.0	---	Cadmium	TVS
Other:		chlorophyll a (mg/m ²)	---	150*TVS	Cadmium(T)	5.0
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)		Chromium III(T)	50	---
Expiration Date of 12/31/2024		acute	chronic	Chromium VI	TVS	TVS
Discharger Specific Variance(s):		Ammonia	TVS	TVS	Copper	TVS
Ammonia(ac/ch) = See Section 38.6(6)		Boron	---	0.75	Iron	---
for details on the variance for the Town		Chloride	---	250	Iron(T)	---
of Crook.		Chlorine	0.019	0.011	Lead	TVS
Expiration Date of 12/31/2025		Cyanide	0.005	---	Lead(T)	50
*chlorophyll a (mg/m ²)(chronic) = applies only		Nitrate	10	---	Manganese	TVS
above the facilities listed at 38.5(4).		Nitrite	---	0.5	Mercury(T)	---
Phosphorus(chronic) = applies only above the		Phosphorus	---	0.47TVS	Molybdenum(T)	---
facilities listed at 38.5(4).		Sulfate	---	WS	Nickel	TVS
*Uranium(acute) = See 38.5(3) for details.		Sulfide	---	0.002	Nickel(T)	---
*Uranium(chronic) = See 38.5(3) for details.					Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	TVS

3. Jackson Reservoir, Prewitt Reservoir, North Sterling Reservoir, Jumbo (Julesburg), Empire Reservoir, Vancil Reservoir.						
COSPLS03	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Aq Life Warm 1	Temperature °C	varies*	varies*	Arsenic	340
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS
Qualifiers: <u>Public Swim Beach*</u>		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Other:		chlorophyll a (ug/L)	---	20*TVS	Chromium III	---
*Public Swim Beach applies to North Sterling		E. coli (per 100 mL)	---	126	Chromium III(T)	50
Reservoir.		Inorganic (mg/L)		Chromium VI	TVS	TVS
*chlorophyll a (ug/L)(Nitrogen)(chronic) = applies		acute	chronic	Copper	TVS	TVS
only above the facilities listed at 38.5(4) and in		Ammonia	TVS	TVS	Iron	---
Public Swim Beach, applies only to lakes and		Boron	---	0.75	Iron(T)	---
reservoirs larger than 25 acres surface area.)		Chloride	---	250	Lead	TVS
*Phosphorus(chronic) = applies only above the		Chlorine	0.019	0.011	Lead(T)	50
facilities listed at 38.5(4) and in Public Swim Beach,		Cyanide	0.005	---	Manganese	TVS
applies only to lakes and reservoirs larger than 25		Nitrate	10	---	Mercury(T)	---
acres surface area.)		Nitrite	---	0.5	Molybdenum(T)	---
Uranium(acute) = See 38.5(3) for details.		Nitrogen	---	TVS	Nickel	TVS
Uranium(chronic) = See 38.5(3) for details.		Phosphorus	---	0.083TVS	Nickel(T)	---
*Temperature =		Sulfate	---	WS	Selenium	TVS
See 38.6(4) for temperature standards.		Sulfide	---	0.002	Silver	TVS
					Uranium	varies*
					Zinc	TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower South Platte River Basin

4. All lakes and reservoirs tributary to the South Platte River from the Weld/Morgan County line to the Colorado/Nebraska border, except for listings in Segment 3.						
COSPLS04	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 2	WL	WL	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	5.0	Beryllium(T)	---	4.0
Qualifiers:		pH	6.5 - 9.0	Cadmium	TVS	TVS
Water + Fish Standards		chlorophyll a (ug/L)	20*TVS	Cadmium(T)	5.0	---
Other:		E. coli (per 100 mL)	126	Chromium III	---	TVS
<p>*chlorophyll a (ug/L)(Nitrogen)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.)</p> <p>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.)</p> <p>*Uranium(acute) = See 38.5(3) for details.</p> <p>*Uranium(chronic) = See 38.5(3) for details.</p>		Inorganic (mg/L)		Chromium III(T)	50	---
		acute	chronic	Chromium VI	TVS	TVS
		Ammonia	TVS	Copper	TVS	TVS
		Boron	---	Iron	---	WS
		Chloride	---	Iron(T)	---	1000
		Chlorine	0.019	Lead	TVS	TVS
		Cyanide	0.005	Lead(T)	50	---
		Nitrate	10	Manganese	TVS	TVS/WS
		Nitrite	---	Mercury(T)	---	0.01
		Nitrogen	---	Molybdenum(T)	---	150
		Phosphorus	0.083TVS*	Nickel	TVS	TVS
		Sulfate	WS	Nickel(T)	---	100
		Sulfide	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Republican River Basin

1. Mainstem of the South Fork of the Republican River from a point 23 miles above the Colorado/Kansas border (39.582154, -102.350838) to the Colorado/Kansas border.							
COSP01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute	chronic	Copper	TVS	TVS	
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
2. Deleted.							
COSP02	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT	acute		chronic	
Qualifiers:		acute	chronic				
Other:							
		Inorganic (mg/L)					
		acute	chronic				

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Republican River Basin

3. Mainstem of the North Fork of the Republican River from the source to the Colorado/Nebraska border. Mainstem of Chief Creek from the source to the confluence with the North Fork of the Republican River.

COSPRE03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E	acute		chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	450 *TVS	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2024					Copper	TVS	TVS
*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
		acute		chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---
		Chloride	---	250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150
		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Nickel(T)	---	100
		Phosphorus	---	0.44 TVS*	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS

4. Mainstem of the Arikaree River from the confluence of the North and South Forks to the Colorado/Kansas border

COSPRE04	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM		MWAT	acute		chronic
Reviewable	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Water Supply	acute		chronic	Arsenic(T)	---	0.02
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other:		chlorophyll a (mg/m²)	---	450 TVS	Chromium III	---	TVS
Temporary Modification(s):		E. coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2024		acute		chronic	Copper	TVS	TVS
*Uranium(acute) = See 38.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 38.5(3) for details.		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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.47 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Republican River Basin

5. Mainstem of Black Wolf Creek from the source to the confluence with the Arikaree River.							
COSP05	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Other: *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (mg/m²)	---	150 TVS	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	---	0.5	Molybdenum(T)	---	150
		Phosphorus	---	0.47 TVS	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
6. All tributaries to the Republican River system in Colorado, including all wetlands, except for listings in segments 1, 3, 4 and 5.							
COSP06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
UP	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Water Supply	acute	chronic	Arsenic(T)	---	0.02	
	Recreation P	D.O. (mg/L)	---	5.0	Beryllium(T)	---	100
Qualifiers:		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 *chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (mg/m²)	---	150 *TVS	Cadmium(T)	5.0	---
		E. coli (per 100 mL)	---	205	Chromium III	---	TVS
		Inorganic (mg/L)			Chromium III(T)	50	---
		acute	chronic	Chromium VI	TVS	TVS	
		Ammonia	TVS	TVS	Copper	TVS	TVS
		Boron	---	0.75	Iron	---	WS
		Chloride	---	250	Iron(T)	---	1000
		Chlorine	0.019	0.011	Lead	TVS	TVS
		Cyanide	0.005	---	Lead(T)	50	---
		Nitrate	10	---	Manganese	TVS	TVS/WS
		Nitrite	---	0.5	Mercury(T)	---	0.01
		Phosphorus	---	0.47 TVS*	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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 38.6 for further details on applied standards.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Republican River Basin

7. Mainstem of the North Fork of the Smoky Hill River and mainstem of the Smoky Hill River, including all tributaries and wetlands, from the source to the Colorado/Kansas border.								
COSPREF07	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
UP	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---	
	Recreation P	acute	chronic	Arsenic(T)	---	100		
Qualifiers:		D.O. (mg/L)	---	5.0	Beryllium(T)	---	100	
Other: *chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		pH	6.5 - 9.0	---	Cadmium	TVS	TVS	
		chlorophyll a (mg/m²)	---	150* TVS	Chromium III	TVS	TVS	
		E. coli (per 100 mL)	---	205	Chromium III(T)	---	100	
		Inorganic (mg/L)			Chromium VI	TVS	TVS	
			acute	chronic	Copper	TVS	TVS	
		Ammonia	TVS	TVS	Iron(T)	---	1000	
		Boron	---	0.75	Lead	TVS	TVS	
		Chloride	---	---	Manganese	TVS	TVS	
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	
		Cyanide	0.005	---	Molybdenum(T)	---	150	
		Nitrate	100	---	Nickel	TVS	TVS	
		Nitrite	---	0.5	Selenium	TVS	TVS	
		Phosphorus	---	0.47 TVS*	Silver	TVS	TVS	
		Sulfate	---	---	Uranium	varies*	varies*	
		Sulfide	---	0.002	Zinc	TVS	TVS	
		8. All lakes and reservoirs tributary to the Republican River and Smoky Hill River in Colorado.						
		COSPREF08	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	5.0	Beryllium(T)	---	4.0	
Qualifiers:		pH	6.5 - 9.0	---	Cadmium	TVS	TVS	
Other: *chlereophyll a (ug/L)(Nitrogen)(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). applies only to lakes and reservoirs larger than 25 acres surface area-1. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.		chlorophyll a (ug/L)	---	20* TVS	Cadmium(T)	5.0	---	
		E. coli (per 100 mL)	---	126	Chromium III	---	TVS	
		Inorganic (mg/L)			Chromium III(T)	50	---	
			acute	chronic	Chromium VI	TVS	TVS	
		Ammonia	TVS	TVS	Copper	TVS	TVS	
		Boron	---	0.75	Iron	---	WS	
		Chloride	---	250	Iron(T)	---	1000	
		Chlorine	0.019	0.011	Lead	TVS	TVS	
		Cyanide	0.005	---	Lead(T)	50	---	
		Nitrate	10	---	Manganese	TVS	TVS/WS	
		Nitrite	---	0.5	Mercury(T)	---	0.01	
		<u>Nitrogen</u>	---	0.083 TVS*	Molybdenum(T)	---	150	
		Phosphorus	---	0.083 TVS*	Nickel	TVS	TVS	
		Sulfate	---	WS	Nickel(T)	---	100	
		Sulfide	---	0.002	Selenium	TVS	TVS	
					Silver	TVS	TVS	
					Uranium	varies*	varies*	
			Zinc	TVS	TVS			

8. All lakes and reservoirs tributary to the Republican River and Smoky Hill River in Colorado.							
COSPREF08	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Beryllium(T)	---	4.0
Qualifiers:		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
Other:		chlorophyll a (ug/L)	---	20*TVS	Cadmium(T)	5.0	---
		E. coli (per 100 mL)	---	126	Chromium III	---	TVS
		Inorganic (mg/L)			Chromium III(T)	50	---
		acute	chronic		Chromium VI	TVS	TVS
		Ammonia	TVS	TVS	Copper	TVS	TVS
		Boron	---	0.75	Iron	---	WS
		Chloride	---	250	Iron(T)	---	1000
		Chlorine	0.019	0.011	Lead	TVS	TVS
		Cyanide	0.005	---	Lead(T)	50	---
		Nitrate	10	---	Manganese	TVS	TVS/WS
		Nitrite	---	0.5	Mercury(T)	---	0.01
		Nitrogen	---	TVS*	Molybdenum(T)	---	150
		Phosphorus	---	0.083TVS*	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
				Zinc	TVS	TVS	
<p>*chlorophyll a (ug/L)(Nitrogen)(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 38.5(3) for details. *Uranium(chronic) = See 38.5(3) for details.</p>							

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 38.6 for further details on applied standards.

