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R317. Environmental Quality, Water Quality.

R317-2. Standards of Quality for Waters of the State.

#### R317-2-1A. Statement of Intent.

Whereas the pollution of the waters of this state constitute a menace to public health and welfare, creates public nuisances, is harmful to wildlife, fish and aquatic life, and impairs domestic, agricultural, industrial, recreational and other legitimate beneficial uses of water, and whereas such pollution is contrary to the best interests of the state and its policy for the conservation of the water resources of the state, it is hereby declared to be the public policy of this state to conserve the waters of the state and to protect, maintain and improve the quality thereof for public water supplies, for the propagation of wildlife, fish and aquatic life, and for domestic, agricultural, industrial, recreational and other legitimate beneficial uses; to provide that no waste be discharged into any waters of the state without first being given the degree of treatment necessary to protect the legitimate beneficial uses of such waters; to provide for the prevention, abatement and control of new or existing water pollution; to place first in priority those control measures directed toward elimination of pollution which creates hazards to the public health; to insure due consideration of financial problems imposed on water polluters through pursuit of these objectives; and to cooperate with other agencies of the state, agencies of other states and the federal government in carrying out these objectives.

## R317-2-1B. Authority.

These standards are promulgated pursuant to Sections 19-5-104 and 19-5-110.

#### R317-2-1C. Triennial Review.

The water quality standards shall be reviewed and updated, if necessary, at least once every three years. The Executive Secretary will seek input through a cooperative process from stakeholders representing state and federal agencies, various interest groups, and the public to develop a preliminary draft of changes. Proposed changes will be presented to the Water Quality Board for information. Informal public meetings may be held to present preliminary proposed changes to the public for comments and suggestions. Final proposed changes will be presented to the Water Quality Board for approval and authorization to initiate formal rulemaking. Public hearings will be held to solicit formal comments from the public. The Executive Secretary will incorporate appropriate changes and return to the Water Quality Board to petition for formal adoption of the proposed changes following the Division of Administrative Rules' rulemaking procedures.

#### R317-2-2. Scope.

These standards shall apply to all waters of the state and shall be assigned to specific waters through the classification procedures prescribed by Sections 19-5-104(5) and 19-5-110 and R317-2-6.

#### R317-2-3. Antidegradation Policy.

# 3.1 Maintenance of Water Quality

Waters whose existing quality is better than the established standards for the designated uses will be maintained at high quality unless it is determined by the Board, after appropriate intergovernmental coordination and public participation in concert with the Utah continuing planning process, allowing lower water quality is necessary to accommodate important economic or social development in the area in which the waters are located. However, existing instream water uses shall be maintained and protected. No water quality degradation is allowable which would interfere with or become injurious to existing instream water uses.

In those cases where potential water quality impairment associated with a thermal discharge is involved, the antidegradation policy and implementing method shall be consistent with Section 316 of the Federal Clean Water Act.

#### 3.2 Category 1 Waters

Waters which have been determined by the Board to be of exceptional recreational or ecological significance or have been determined to be a State or National resource requiring protection, shall be maintained at existing high quality through designation, by the Board after public hearing, as Category 1 Waters. New point source discharges of wastewater, treated or otherwise, are prohibited in such segments after the effective date of designation. Protection of such segments from pathogens in diffuse, underground sources is covered in R317-5 and R317-7 and the Regulations for Individual Wastewater Disposal Systems (R317-501 through R317-515). Other diffuse sources (nonpoint sources) of wastes shall be controlled to the extent feasible through implementation of best management practices or regulatory programs.

Projects such as, but not limited to, construction of dams or roads will be considered where pollution will result only during the actual construction activity, and where best management practices will be employed to minimize pollution effects.

Waters of the state designated as Category 1 Waters are listed in R317-2-12.1.

### 3.3 Category 2 Waters

Category 2 Waters are designated surface water segments which are treated as Category 1 Waters except that a point source discharge may be permitted provided that the discharge does not degrade existing water quality. Waters of the state designated as Category 2 Waters are listed in R317-2-12.2.

#### 3.4 Category 3 Waters

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For all other waters of the state, point source discharges are allowed and degradation may occur, pursuant to the conditions and review procedures outlined in Section 3.5.

will determine whether the proposed activity complies with the applicable antidegradation requirements for receiving waters that may be affected. may be affected.¶
An antidegradation review
(ADR) may consist of two
parts or levels. A Level I
review is conducted to
insure that existing uses
will be maintained and
protected. In addition, a
Level I review evaluates the
criteria in Section 3.5b to
determine if any degradation
is de minimis in nature and
therefore does not require a therefore does not require a Level II review. A Level II review as described in Section 3.5c is needed when the impacts are not de minimus.  $\P$ Both Level I and Level II reviews will be conducted on reviews will be conducted on a parameter-by-parameter basis. A decision to move to a Level II review for one parameter does not require a Level II review for other parameters. Discussion of parameters of concern is those expected to be affected by the proposed activity. ¶

Antidegradation reviews Antidegradation reviews shall include opportunities for public participation, as described in Section 3.5e. 
a. Activities Subject to Antidegradation Review (ADR) 
1. For all State waters, antidegradation reviews will be conducted for proposed federally regulated activities, such as those under Clean Water Act Sections 401 (FERC and other Federal actions), 402 (UPDES permits), and 404 (Army Corps of Engineers permits). The Executive Secretary may conduct an ADR on other projects with the potential for major impact on the quality of waters of the state. The review will determine whether the proposed activity complies with the applicable antidegradation requirements for the particular receiving waters that may be affected. ¶ 2. For Category 1 Waters and Category 2 Waters, reviews shall be consistent with the requirement established in Sections 3.2 established in Sections 3.2
and 3.3, respectively.
3. For Category 3 Waters,
reviews shall be consistent
with the requirements
established in this section
b. An Anti-degradation
Level II review is not
required where any of t...[1]

Deleted: 3.5 Antidegradation Review (ADR) ¶ An antidegradation review

#### R317-2-4. Colorado River Salinity Standards.

In addition to quality protection afforded by these regulations to waters of the Colorado River and its tributaries, such waters shall be protected also by requirements of "Proposed Water Quality Standards for Salinity including Numeric Criteria and Plan of Implementation for Salinity Control, Colorado River System, June 1975" and a supplement dated August 26, 1975, entitled "Supplement, including Modifications to Proposed Water Quality Standards for Salinity including Numeric Criteria and Plan of Implementation for Salinity Control, Colorado River System, June 1975", as approved by the seven Colorado River Basin States and the U.S. Environmental Protection Agency, as updated by the 1978 Revision and the 1981, 1984, 1987, 1990, 1993, 1996, 1999, 2002, 2005, and 2008 Reviews of the above documents.

#### R317-2-5. Mixing Zones.

A mixing zone is a limited portion of a body of water, contiquous to a discharge, where dilution is in progress but has not yet resulted in concentrations which will meet certain standards for all pollutants. At no time, however, concentrations within the mixing zone be allowed which are acutely lethal as determined by bioassay or other approved procedure. Mixing zones may be delineated for the purpose of guiding sample collection procedures and to determine permitted effluent limits. The size of the chronic mixing zone in rivers and streams shall not to exceed 2500 feet and the size of an acute mixing zone shall not exceed 50% of stream width nor have a residency time of greater than 15 minutes. Streams with a flow equal to or less than twice the flow of a point source discharge may be considered to be totally mixed. The size of the chronic mixing zone in lakes and reservoirs shall not exceed 200 feet and the size of an acute mixing zone shall not exceed 35 feet. Domestic wastewater effluents discharged to mixing requirements specified in R317-1-3. zones shall meet

- 5.1 Individual Mixing Zones. Individual mixing zones may be further limited or disallowed in consideration of the following factors in the area affected by the discharge:
  - a. Bioaccumulation in fish tissues or wildlife,
- b. Biologically important areas such as fish spawning/nursery areas or segments with occurrences of federally listed threatened or endangered species,
- c. Potential human exposure to pollutants resulting from drinking water or recreational activities,
- $\mbox{d.}^{\bar{}}$  Attraction of aquatic life to the effluent plume, where toxicity to the aquatic life is occurring.
  - e. Toxicity of the substance discharged,
- f. Zone of passage for migrating fish or other species (including access to tributaries), or
- g. Accumulative effects of multiple discharges and mixing zones.

#### R317-2-6. Use Designations.

The Board as required by Section 19-5-110, shall group the waters of the state into classes so as to protect against controllable pollution the beneficial uses designated within each class as set forth below. Surface waters of the state are hereby classified as shown in R317-2-13.

- Class 1 -- Protected for use as a raw water source for 6.1 domestic water systems.
  - a. Class 1A -- Reserved.
  - b. Class 1B -- Reserved.
- c. Class 1C -- Protected for domestic purposes with prior treatment by treatment processes as required by the Utah Division of Drinking Water
- Class 2 -- Protected for recreational use and 6.2 aesthetics.
- Class 2A -- Protected for frequent primary contact recreation where there is a high likelihood of ingestion of water or a high degree of bodily contact with the water. Examples include, but are not limited to, swimming, rafting, kayaking, diving, and water skiing.
- Class 2B -- Protected for infrequent primary contact recreation. Also protected for secondary contact recreation where there is a low likelihood of ingestion of water or a low degree of bodily contact with the water. Examples include, but are not limited to, wading, hunting, and fishing.
- 6.3 Class 3 -- Protected for use by aquatic wildlife.
  a. Class 3A -- Protected for cold water species of game fish and other cold water aquatic life, including the necessary aquatic organisms in their food chain.
- b. Class 3B -- Protected for warm water species of game fish and other warm water aquatic life, including the necessary aquatic organisms in their food chain.
- c. Class 3C -- Protected for nongame fish and other aquatic life, including the necessary aquatic organisms in their food chain.
- Class 3D -- Protected for waterfowl, shore birds and other water-oriented wildlife not included in Classes 3A, 3B, or 3C, including the necessary aquatic organisms in their food chain.
- e. Class 3E -- Severely habitat-limited waters. Narrative standards will be applied to protect these waters for aquatic wildlife.
- Class 4 -- Protected for agricultural uses including irrigation of crops and stock watering.
  - 6.5 Class 5 -- The Great Salt Lake.
  - a. Class 5A Gilbert Bay

Geographical Boundary -- All open waters at or below approximately 4,208-foot elevation south of the Antelope Island Causeway, excluding all of the Farmington Bay south of the Antelope Island Causeway and salt evaporation ponds.

Beneficial Uses -- Protected for frequent primary and secondary contact recreation, waterfowl, shore birds and other water-oriented wildlife including their necessary food chain.

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b. Class 5B Gunnison Bay

Geographical Boundary -- All open waters at or below approximately 4,208-foot elevation north of the Union Pacific Causeway and west of the Promontory Mountains, excluding salt evaporation ponds.

Beneficial Uses -- Protected for infrequent primary and secondary contact recreation, waterfowl, shore birds and other water-oriented wildlife including their necessary food chain.

c. Class 5C Bear River Bay

Geographical Boundary -- All open waters at or below approximately 4,208-foot elevation north of the Union Pacific Causeway and east of the Promontory Mountains, excluding salt evaporation ponds.

Beneficial Uses -- Protected for infrequent primary and secondary contact recreation, waterfowl, shore birds and other water-oriented wildlife including their necessary food chain.

d. Class 5D Farmington Bay Geographical Boundary -- All open waters at or below approximately 4,208-foot elevation east of Antelope Island and south of the Union Pacific Causeway, excluding salt evaporation

Beneficial Uses -- Protected for infrequent primary and secondary contact recreation, waterfowl, shore birds and other water-oriented wildlife including their necessary food chain.

e. Class 5E Transitional Waters along the Shoreline of the Great Salt Lake Geographical Boundary -- All waters below approximately 4,208-foot elevation to the current lake elevation of the open water of the Great Salt Lake receiving their source water from naturally occurring springs and streams, impounded wetlands, or facilities requiring a UPDES permit. qeographical areas of these transitional waters corresponding to the fluctuation of open water elevation.

Beneficial Uses -- Protected for infrequent primary and secondary contact recreation, waterfowl, shore birds and other water-oriented wildlife including their necessary food chain.

#### R317-2-7. Water Quality Standards.

7.1 Application of Standards

The numeric criteria listed in R317-2-14 shall apply to each of the classes assigned to waters of the State as specified in R317-2-6. It shall be unlawful and a violation of these regulations for any person to discharge or place any wastes or other substances in such manner as may interfere with designated uses protected by assigned classes or to cause any of the applicable standards to be violated, except as provided in R317-1-3.1. At a minimum, assessment of the beneficial use support for waters of the state will be conducted biennially and available for a 30-day period of public comment and review. Monitoring locations and target indicators of water quality standards shall be prioritized and published yearly. For water quality assessment purposes, up to 10 percent of the representative samples may exceed the minimum or maximum criteria for dissolved oxygen, pH, E. coli, total dissolved solids, and temperature, including

situations where such criteria have been adopted on a sitespecific basis. The Board may allow site specific modifications based upon bioassay or other tests performed in accordance with standard procedures determined by the Board.

7.2 Narrative Standards

It shall be unlawful, and a violation of these regulations,
for any person to discharge or place any waste or other substance into a waterbody if these actions may become offensive by causing conditions such as unnatural deposits, floating debris, oil, scum, or other nuisances that cause undesirable color, odor or taste; or cause conditions which produce undesirable aquatic life; or produce objectionable tastes in edible aquatic organisms; or result in concentrations or combinations of substances which produce undesirable physiological responses in desirable resident fish, or other desirable aquatic life or undesirable human health effects, as determined by bioassay or other tests performed in accordance with standard procedures.

## Narrative Biological Standards

The taxonomic composition, richness or functional organization of an assemblage of aquatic organisms shall not differ from comparable measures observed at reference sites. <u>Violations of this criterion will be determined using</u> scientifically defensible and statistically rigorous methods and other information.

This biological criterion alone shall not be used for regulatory and enforcement actions, such as the development or enforcement of Utah pollution discharge elimination system permits. However, biological assessment methods that have been approved by the Executive Secretary, following consultation and review by the Board and other interested parties, may be used to assess support of biological uses as assigned in R-317-2-6. Biological assessment methods may also be used, in combination with other information, to support the development of sitespecific standards, new or refined aquatic life use categories, to support the need for new permit limits.

#### R317-2-8. Protection of Downstream Uses.

actions to control waste discharges under regulations shall be modified as necessary to protect downstream designated uses.

## R317-2-9. Intermittent Waters.

Failure of a stream to meet water quality standards when stream flow is either unusually high or less than the 7-day, 10year minimum flow shall not be cause for action against persons discharging wastes which meet both the requirements of R317-1 and the requirements of applicable permits.

#### R317-2-10. Laboratory and Field Analyses.

Comment [jdo1]: See also 5-Narrative Biological Standards.doc

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Deleted: 7.2 Narrative Standards¶ It shall be unlawful, and a violation of these regulations, for any person to discharge or place any waste or other substance in such a way as will be or may become offensive such as unnatural deposits, floating debris, oil, scum or other nuisances such as color, odor or taste; or cause conditions which produce undesirable aquatic life or which produce objectionable tastes in edible aquatic organisms; or result in concentrations or combinations of substances which produce undesirable physiological responses in desirable resident fish, or other desirable aquatic life, or undesirable human health effects, as determined by bioassay or other tests performed in accordance with standard procedures.

10.1 Laboratory Analyses

All laboratory examinations of samples collected to determine compliance with these regulations shall be performed in accordance with standard procedures as approved by the Utah Division of Water Quality by the Utah Office of State Health Laboratory or by a laboratory certified by the Utah Department of Health.

10.2 Field Analyses

All field analyses to determine compliance with these regulations shall be conducted in accordance with standard procedures specified by the Utah Division of Water Quality.

#### R317-2-11. Public Participation.

Public hearings will be held to review all proposed revisions of water quality standards, designations and classifications, and public meetings may be held for consideration of discharge requirements set to protect water uses under classifications.

# R317-2-12. Category 1 and Category 2 Waters.

12.1 Category 1 Waters.

In addition to assigned use classes, the following surface waters of the State are hereby designated as Category 1 Waters:

All surface waters geographically located within the outer boundaries of U.S. National Forests whether on public or private lands with the following exceptions:

Category 2 Waters as listed in R317-2-12.2.

b. Other surface waters, which may include segments within U.S. National Forests as follows:

1. Colorado River Drainage

Calf Creek and tributaries, from confluence with Escalante River to headwaters.

Sand Creek and tributaries, from confluence with Escalante River to headwaters.

Mamie Creek and tributaries, from confluence with Escalante River to headwaters.

Deer Creek and tributaries, from confluence with Boulder Creek to headwaters (Garfield County

Indian Creek and tributaries, through Newspaper Rock State Park to headwaters.

2. Green River Drainage

Price River (Lower Fish Creek from confluence with White River to Scofield Dam.

Range Creek and tributaries, from confluence with Green River to headwaters.

Strawberry River and tributaries, from confluence with Red Creek to headwaters.

Ashley Creek and tributaries, from Steinaker diversion to headwaters.

Jones Hole Creek and tributaries, from confluence with Green River to headwaters.

Green River, from state line to Flaming Gorge Dam.

Tollivers Creek, from confluence with Green River to

Comment [CWB2]: Moved Weber River to 317-2-12.2(b)

Deleted: Weber River, a tributary to the Great Salt Lake, in the Weber River Drainage from Uintah to Mountain Green.

headwaters.

Allen Creek, from confluence with Green River to headwaters.

3. Virgin River Drainage

North Fork Virgin River and tributaries, from confluence with East Fork Virgin River to headwaters.

East Fork Virgin River and tributaries from confluence with North Fork Virgin River to headwaters.

4. Kanab Creek Drainage

Kanab Creek and tributaries, from irrigation diversion at confluence with Reservoir Canyon to headwaters.

5. Bear River Drainage

Swan Creek and tributaries, from Bear Lake to headwaters.

North Eden Creek, from Upper North Eden Reservoir to headwaters.

 $\,$  Big Creek and tributaries, from Big Ditch diversion to headwaters.

Woodruff Creek and tributaries, from Woodruff diversion to headwaters.

6. Weber River Drainage

Burch Creek and tributaries, from Harrison Boulevard in Ogden to headwaters.

Hardscrabble Creek and tributaries, from confluence with East Canyon Creek to headwaters.

Chalk Creek and tributaries, from U.S. Highway 189 to headwaters.

Weber River and tributaries, from U.S. Highway 189 near Oakley to headwaters.

7. Jordan River Drainage

City Creek and tributaries, from City Creek Water Treatment Plant to headwaters (Salt Lake County).

Emigration Creek and tributaries, from Hogle Zoo to headwaters (Salt Lake County).

Red Butte Creek and tributaries, from Foothill Boulevard in Salt Lake City to headwaters.

Parley's Creek and tributaries, from 13th East in Salt Lake City to headwaters.

Mill Creek and tributaries, from Wasatch Boulevard in Salt Lake City to headwaters.

Big Cottonwood Creek and tributaries, from Wasatch Boulevard in Salt Lake City to headwaters.

Little Willow Creek and tributaries, from diversion to headwaters (Salt Lake County.)

Bell Canyon Creek and tributaries, from Lower Bells Canyon Reservoir to headwaters (Salt Lake County).

South Fork of Dry Creek and tributaries, from Draper Irrigation Company diversion to headwaters (Salt Lake County).

8. Provo River Drainage

Upper Falls drainage above Provo City diversion (Utah County).

Bridal Veil Falls drainage above Provo City diversion (Utah County).

Lost Creek and tributaries, above Provo City diversion (Utah County).

9. Sevier River Drainage

Chicken Creek and tributaries, from diversion at canyon mouth to headwaters.

Pigeon Creek and tributaries, from diversion to headwaters.

East Fork of Sevier River and tributaries, from Kingston diversion to headwaters.

Parowan Creek and tributaries, from Parowan City to headwaters.

Summit Creek and tributaries, from Summit City to headwaters. Braffits Creek and tributaries, from canyon mouth to headwaters.

Right Hand Creek and tributaries, from confluence with  ${\tt Coal}$   ${\tt Creek}$  to headwaters.

10. Raft River Drainage

Clear Creek and tributaries, from state line to headwaters (Box Elder County).

Birch Creek (Box Elder County), from state line to headwaters.

Cotton Thomas Creek from confluence with South Junction Creek to headwaters.

11. Western Great Salt Lake Drainage

All streams on the south slope of the Raft River Mountains above 7000' mean sea level.

Donner Creek (Box Elder County), from irrigation diversion to Utah-Nevada state line.

Bettridge Creek (Box Elder County), from irrigation diversion to Utah-Nevada state line.

Clover Creek, from diversion to headwaters.

All surface waters on public land on the Deep Creek Mountains.

12. Farmington Bay Drainage

Holmes Creek and tributaries, from Highway US-89 to headwaters (Davis County).

Shepard Creek and tributaries, from  $Height\ Bench\ diversion\ to\ headwaters\ (Davis\ County)$  .

Farmington Creek and tributaries, from Height Bench Canal diversion to headwaters (Davis County).

Steed Creek and tributaries, from Highway US-89 to headwaters (Davis County).

12.2 Category 2 Waters.

In addition to assigned use classes, the following surface waters of the State are hereby designated as Category 2 Waters:

a. Green River Drainage

Deer Creek, a tributary of Huntington Creek, from the forest boundary to 4800 feet upstream

. Electric Lake.

b. Weber River Drainage,

Weber River from Uintah to Mountain Green.

Deleted: ¶

Comment [CWB3]: Moved from 317-2-12.1

#### R317-2-13. Classification of Waters of the State (see R317-2-6).

13.1 Upper Colorado River Basin

a. Colorado River Drainage

Paria River and tributaries, from state line to headwaters		2B	3C	4
All tributaries to Lake Powell, except as listed below Tributaries to Escalante River fro confluence with Boulder Creek to	om	2B	3B	4
headwaters, including Boulder Cree	ek	2B 3A		4
Dirty Devil River and tributaries, from Lake Powell to Fremont River		2B	3C	4
Deer Creek and tributaries, from confluence with Boulder Creek to headwaters		2B 3A		4
Fremont River and tributaries, from confluence with Muddy Creek to Capitol				
Reef National Park, except as listed below	1C	2B	3C	4
Pleasant Creek and tributaries, from confluence with Fremont Rive to East boundary of Capitol Reef National Park		2B	3C	4
Pleasant Creek and tributaries, from East boundary of Capitol Reef National Park to headwaters	1C	2B 3A		
Fremont River and tributaries, through Capitol Reef National Park to headwaters	1C	2B 3A		4
Muddy Creek and tributaries, from confluence with Fremont River to Highway U-10 crossing, except as listed below		2B	3C	4
Quitchupah Creek and		- <b>-</b>		-
Tributaries, from Highway U-10 crossing to headwaters		2B 3A		4
Ivie Creek and tributaries,	n			

from Highway U-10 to headwaters		2B	3A			4
Muddy Creek and tributaries, from Highway U-10 crossing to headwaters	1C	2B	3A			4
San Juan River and Tributaries, from Lake Powell to state line except As listed below:	1C 2A			3B		4
Johnson Creek and tributaries, from confluence with Recapture Creek to headwaters	1C	2B	3A			4
Verdure Creek and tributaries, from Highway US-191 crossing to headwaters		2B	3A			4
North Creek and tributaries, from confluence with Montezuma Creek to headwaters	1C	2B	3A			4
South Creek and tributaries, from confluence with Montezuma Creek to headwaters	1C	2B	3A			4
Spring Creek and tributaries, from confluence with Vega Creek to headwaters		2B	3A			4
Montezuma Creek and tributaries, from U.S. Highway 191 to headwaters	1C	2B	3A			4
Colorado River and tributaries, from Lake Powell to state line except as listed below	1C 2A			3B		4
Indian Creek and tributaries, through Newspaper Rock State Park to headwaters	1C	2B	3A			4
Kane Canyon Creek and tributaries, from confluence with Colorado River to headwaters		2B			3C	4
Mill Creek and tributaries, from confluence with Colorado River to headwaters	1C	2B	3A			4

	Dolores River and tributaries, from confluence with Colorado River to state line		2B		3C	4
	Roc Creek and tributaries, from confluence with Dolores River to headwaters		2B :	3 <b>A</b>		4
	LaSal Creek and tributaries, from state line to headwaters		2B :	3A		4
	Lion Canyon Creek and tributaries, from state line to headwaters		2B :	3A		4
	Little Dolores River and tributaries, from confluence with Colorado River to state line	è	2B	3C		4
	Bitter Creek and tributaries, from confluence with Colorado River to headwaters		2B	3C		4
	b. Green River Drainage					
	TABLE					
confl	River and tributaries, from uence with Colorado River to line except as listed below:	1C 2	2 <b>A</b> :	3B	4	
f	hompson Creek and tributaries rom Interstate Highway 70 to eadwaters		2B	3(	C	4
t: w	an Rafael River and ributaries, from confluence ith Green River to confluence ith Ferron Creek		2B	3(	C	4
	erron Creek and tributaries, rom confluence with San					
	afael River to Millsite eservoir		2B	30	C	4
f h H	erron Creek and tributaries, rom Millsite Reservoir to eadwaters untington Creek and	1C	2B :	3A		4
W	ributaries, from confluence ith Cottonwood Creek to ighway U-10 crossing 12		2B	30	C	4

Huntington Creek and tributaries, from Highway U-10 crossing to headwaters	1C	2B 3A		4
Cottonwood Creek and tributaries, from confluence with Huntington Creek to				
Highway U-57 crossing Cottonwood Creek and tributaries, from Highway		2B	3C	4
U-57 crossing to headwaters	1C	2B 3A		4
Cottonwood Canal, Emery County	1C	2B		3E 4
Price River and tributaries, from confluence with Green River to Carbon Canal Diversion at Price City Golf Course	е	2B	3C	4
Except as listed below Grassy Trail Creek and tributaries, from Grassy				
Trail Creek Reservoir to headwaters	1C	2B 3A		4
Price River and tributaries, from Carbon Canal Diversion at Pric City Golf Course to Price City Wate Water Treatment Plant intake.		2B 3A		4
Price River and tributaries, from Price City Water Treatment Plant intake to headwaters	1C	2B 3A		4
Range Creek and tributaries, from confluence with Green River to Range Creek Ranch		2B 3A		4
Range Creek and tributaries, from Range Creek Ranch to headwaters	1C	2B 3A		4
Rock Creek and tributaries, from confluence with Green River to headwaters		2B 3A		4
Nine Mile Creek and tributaries, from confluence				

with Green River to headwaters		2B 3A	4
Pariette Draw and tributaries, from confluence with Green River to headwaters		2B 3B 3D	4
Willow Creek and tributaries (Uintah County), from confluence with Green River to headwaters		2B 3A	4
White River and tributaries, from confluence with Green River to state line, except as listed below		2B 3B	4
Bitter Creek and Tributaries from White River to Headwaters		2B 3A	4
Duchesne River and tributaries, from confluence with Green River to Myton Water Treatment Plant intake, except as listed below 2B	3B	4	
Uinta River and tributaries, From confluence with Duchesne River to Highway US-40 crossing		2B 3B	4
Uinta River and tributaries, From Highway US-4- crossing to headwaters		2B 3A	4
Power House Canal from Confluence with Uinta River to headwaters		2B 3A	4
Whiterocks River and Canal, From Tridell Water Treatment Plant to Headwaters	1C	2B 3A	4
Duchesne River and tributaries, from Myton Water Treatment Plant intake to headwaters	1C	2B 3A	4
Lake Fork River and tributaries, from confluence with Duchesne River to headwaters	1C	2B 3A	4

Lake Fork Canal from Dry

Gulch Moon I	Canal Diversion to ake			1C	2B				31	Ξ 4
Myton	lch Canal, from Water Treatment to Lake Fork Canal			1C	2B				31	Ξ 4
tribut with G	r Creek and caries, from confluenc Green River to Oker diversion	е			2B		3B			4
	Creek and tributarie Steinaker diversion to Sters			1C	2B	3A				4
tribut with G	rush Creek and caries, from confluenc Green River to Tyzack Pleet) Dam	е			2B		3B			4
tribut	rush Creek and caries, from Tyzack Pleet) Dam to cters			1C	2B	3A				4
tribut	Hole Creek and aries, from confluenc creen River to sters	е			2B	3A				
tribut	nd Gulch Creek and caries, from confluenc Green River to Sters	е			2B	3A				4
	reek and tributaries, Crouse Reservoir to Sters				2B	3A				4
Utah-Color	er and tributaries, fr rado state line to Fla as listed below:		Gorge	9	2A	3A			4	
	ek and tributaries, t County				2B	3A				
	ers Creek and aries, Daggett County				2B	3A				
from c	eek and tributaries, confluence with Green to state line	15			2B		3	3C		4

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Jackson Creek and tributaries, Daggett County		2B 3A	r	
Davenport Creek and tributaries, Daggett County		2B 3A	r	
Goslin Creek and tributaries, Daggett County		2B 3A	<b>.</b>	
Gorge Creek and tributaries, Daggett County		2B 3A	<b>L</b>	
Beaver Creek and tributaries, Daggett County		2B 3A	4	
O-Wi-Yu-Kuts Creek and tributaries, County		2B 3A	<u>.</u>	
Tributaries to Flaming Gorge Reservoir, except as listed below		2B 3A	<u>.</u>	4
Birch Spring Draw and tributaries, from Flaming Gorge Reservoir to headwaters		2B	3C	4
Spring Creek and tributaries, from Flaming Gorge Reservoir to headwaters		2B 3A	Δ	
All Tributaries of Flaming Gorge Reservoir from Utah-Wyoming state line to headwaters		2B 3A	4	4
13.2 Lower Colorado River Basin a. Virgin River Drainage				
TABLE				
Beaver Dam Wash and tributaries, from Motoqua to headwaters		2B	3B	4
Virgin River and tributaries from_state line to Quail Creek diversion_except as listed below 2B 3B 4				
Santa Clara River from confluence with Virgin River to Gunlock Reservoir	1C	2B	3B	4
Santa Clara River and				

	tributaries, from Gunlock Reservoir to headwaters		2B 3A		4
	Leed's Creek, from confluence with Quail Creek to headwaters		2B 3A		4
	Quail Creek from Quail Creek Reservoir to headwaters	1C	2B 3A		4
	Ash Creek and tributaries, from confluence with Virgin River to Ash Creek Reservoir		2B 3A		4
	Ash Creek and tributaries, From Ash Creek Reservoir to headwaters		2B 3A		4
	Virgin River and tributaries,				
1	the Quail Creek diversion to neadwaters, except as listed pelow	1C	2B	3C	4
	North Fork Virgin River and tributaries	1C	<u>2A</u> 3A		4 <b>Deleted:</b> 2B
	East Fork Virgin River, from town of Glendale to headwaters		2B 3A		4
	Kolob Creek, from confluence with Virgin River to headwaters		2B 3A		4
	b. Kanab Creek Drainage				
	TABLE				
]	Kanab Creek and tributaries, from state line to irrigation diversion at confluence with Reservoir Canyon		2B	3C	4
	Kanab Creek and tributaries, from irrigation diversion at confluence with Reservoir Canyon to headwaters		2B 3A		4
i I	Johnson Wash and tributaries, from state line to confluence with Skutumpah Canyon 2B		3C	4	
1	Johnson Wash and tributaries, from confluence with Skutumpah Canyon to headwaters 17		2B 3A		4

# 13.3 Bear River Basin a. Bear River Drainage

Bear River and tributaries, from Great Salt Lake to Utah-Idaho border, except as listed below:	2B	3B	3D	4
Perry Canyon Creek from U.S. Forest boundary to headwaters	2B 3A	•		4
Box Elder Creek from confluence with Black Slough to Brigham City Reservoir (the Mayor's Pond)	2B		3C	4
Box Elder Creek, from Brigham City Reservoir (the Mayor's Pond) to headwaters	2B 3A			4
Salt Creek, from confluence with Bear River to Crystal Hot Springs	2B	3B	3D	
Malad River and tributaries, from confluence with Bear River to state line	2B		3C	
Little Bear River and tributaries, from Cutler Reservoir to headwaters	2B 3A		3D	4
Logan River and tributaries, from Cutler Reservoir to headwaters	2B 3A		3D	4
Blacksmith Fork and tributaries, from confluence with Logan River to headwaters	2B 3A			4
Newton Creek and tributaries, from Cutler Reservoir to Newton Reservoir	2B 3A			4
Clarkston Creek and tributaries, from Newton Reservoir to headwaters	2B 3A			4
Birch Creek and tributaries, from confluence with Clarkston Creek to headwaters	2B 3A			4

Summit Creek and tributaries, from confluence with Bear River to headwaters		2B 3A		4
Cub River and tributaries, from confluence with Bear River to state line, except as listed below:		2B	3B	4
High Creek and tributaries, from confluence with Cub River to headwaters		2B 3A		4
All tributaries to Bear Lake from Bear Lake to headwaters, except as listed below		2B 3A		4
Swan Springs tributary to Swan Creek	1C	2B 3A		
Bear River and tributaries in Rich County		2B 3A		4
Bear River and tributaries, from Utah-Wyoming state line to headwaters (Summit County)		2B 3A		4
Mill Creek and tributaries, from state line to headwaters (Summit County)		2B 3A		4
13.4 Weber River Basin a. Weber River Drainage				
TABLE				
Willard Creek, from Willard Bay Reservoir to headwaters		2B 3A		4
Weber River, from Great Salt Lake to Slaterville diversion, except as listed below:		2B	3C 3D	4
Four Mile Creek from I-15 To headwaters		2B 3A		4
Weber River and tributaries, from Slaterville diversion to Stoddard diversion, except as listed below		2B 3A		4
Ogden River and tributaries, From confluence with Weber River 19				

	To Pineview Dam, except as listed Below		2B 3	A		4	
	Wheeler Creek from Confluence with Ogden River to headwaters	1C	2B 32	A		4	
	All tributaries to Pineview Reservoir	1C	2B 3	A		4	
	Strongs Canyon Creek and Tributaries, from U.S. National Forest boundary to headwaters	1C	2B 32	Ą		4	
	Burch Creek and tributaries, from Harrison Boulevard in Ogden to Headwaters	1C	2B 32	Ą			
	Spring Creek and tributaries, From U.S. National Forest Boundary to headwaters	1C	2B 32	A		4	
S	eber River and tributaries, from toddard diversion to eadwaters	1C	2B 32	A		4	
	13.5 Utah Lake-Jordan River Bas a. Jordan River Drainage	sin					
	TABLE						
В	ordan River, from Farmington ay to North Temple Street, alt Lake City		2B	3B *	3D	4	
В	tate Canal, from Farmington ay to confluence with the ordan River		2B	3B_*_	3D	_4	Formatted: Norwegian (Bokmâl)
J	ordan River, from North Temple_Stree	et in Sal	t Lak	e City t	co .		
C	ottonwood Creek		2B	3B *		4	
. I	urplus Canal from Great Salt ake to the diversion from the ordan River		2B	3B *	3D	4	Formatted: Norwegian (Bokmål)
I	ordan River from confluence with ittle Cottonwood Creek to arrows Diversion		2B 32	A		4	
J	ordan River, from Narrows						

Diversion to Utah Lake	1C	2B	3B	4
City Creek, from Memory Park in Salt Lake City to City Creek Water Treatment Plant		2B 3A		
City Creek, from City Creek Water Treatment Plant to headwaters	1C	2B 3A		
Red Butte Creek and tributaries, from Red Butte Reservoir to headwaters	1C	2B 3A		
Emigration Creek and tributaries, from Foothill Boulevard in Salt Lake City to headwaters		2B 3A		
Parley's Creek and tributaries, from 1300 East in Salt Lake City to Mountain Dell Reservoir to	10	20 27		
headwaters	1C	2B 3A		
Parley's Creek and tributaries, from Mountain Dell Reservoir to headwaters	1C	2B 3A		
Mill Creek (Salt Lake County) from confluence with Jordan River to Interstate Highway 15		2B	3C	4
Mill Creek (Salt Lake County) and tributaries from Interstate Highway 15 to headwaters		2B 3A		4
Big Cottonwood Creek and tributaries, from confluence with Jordan River to Big Cottonwood				
Water Treatment Plant		2B 3A		4
Big Cottonwood Creek and tributaries, from Big Cottonwood Water Treatment Plant to				
headwaters Deaf Smith Canyon Creek and	1C	2B 3A		
tributaries	1C	2B 3A		4
Little Cottonwood Creek and tributaries, from confluence with Jordan River to Metropolitan Water Treatment Plant		2B 3A		4
Little Cottonwood Creek and tributaries, from Metropolitan				

Water Treatment Plant to headwaters	1C	2B 3A		
Bell Canyon Creek and tributaries, from lower Bell's Canyon reservoir to headwaters	1C	2B 3A		
Little Willow Creek and tributaries, from Draper Irrigation Company diversion to headwaters Big Willow Creek and tributaries,	1C	2B 3A		
from Draper Irrigation Company diversion to headwaters	1C	2B 3A		
South Fork of Dry Creek and tributaries, from Draper				
Irrigation Company diversion to headwaters All permanent streams on east slope of Oquirrh Mountains (Coon, Barney's, Bingham, Butterfield,	1C	2B 3A		
and Rose Creeks)		2B	3D	4
Kersey Creek from confluence of C-7 Ditch to headwaters		2B	3D	

<sup>\*</sup> Site specific criteria for dissolved oxygen. See Table 2.14.5.

# b. Provo River Drainage

## TABLE

Provo River and tributaries,			
from Utah Lake to Murdock			
diversion		2B 3A	4
Provo River and tributaries,			
from Murdock Diversion to			
headwaters, except as listed			
below	1C	2B 3A	4
Upper Falls drainage above Pr	ovo		
City diversion	1C	2B 3A	
Bridal Veil Falls drainage ab	ove		
Provo City diversion	1C	2B 3A	
Lost Creek and tributaries ab	ove		
Provo City diversion	1C	2B 3A	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			

# c. Utah Lake Drainage

TABLE

22

	Dry Creek and tributaries (above Alpine), from U.S. National Forest boundary to headwaters		2B 32	A	4		
	American Fork Creek and tributaries, from diversion at mouth of American Fork Canyon to headwaters		2B 32	A	4		
	Spring Creek and tributaries, from Utah Lake near Lehi to headwaters		2B 3		4		
	Lindon Hollow Creek and tributaries, from Utah Lake to headwaters		2B	3B	4		
	Rock Canyon Creek and tributaries (East of Provo) from U.S. National Forest boundary to headwaters	10	2D 2	n.	4		
	neadwaters	1C	2B 3	4	4		
	Mill Race and tributaries from Utah Lake to headwaters		2B	3B	4	were	nent [CWB4]: Classes identical for different nes of Mill Race
I	Spring Creek and tributaries from Utah Lake (Provo Bay) to 50 feet upstream from the east boundary				<sub>\</sub>	Inter Highw WWTP	ed: (except from state¶ way 15 to the Provo City       arge)
	of the Industrial Parkway Road Right-of-way		2B	3B	4	Inter 15 to	ed: Mill Race from rstate Highway¶ o the Provo City
	Tributary to Spring Creek (Utah County) which receives the Springville City WWTP effluent from confluence with Spring Creek						ewater¶ ment plant discharge 2B 3B 4¶
	to headwaters		2B	3D	4		
	Spring Creek and tributaries from 50 feet upstream from the east boundary of the Industrial Parkway Road right-of-way to the headwaters		2B 32		4		
	Ironton Canal from Utah Lake (Provo Bay) to the east boundary of the Denver and Rio Grande Western Railroad right-of-way		2B	3C	4		
	Ironton Canal from the east boundary of the Denver and Rio Grande Western Railroad right-of-way to the point		05.5	n.			
	of diversion from Spring Creek 23		2B 3	Ą	4		

Hobble Creek and tributaries, from Utah Lake to headwaters Dry Creek and tributaries from Utah Lake (Provo Bay) to Highway-US 89	2B 3A 4 2B 3E 4
Dry Creek and tributaries from Highway-US 89 to headwaters	2B 3A 4
Spanish Fork River and tributaries, from Utah Lake to diversion at Moark Junction	2B 3B 3D 4
Spanish Fork River and tributaries, from diversion at Moark Junction to headwaters	2B 3A 4
Benjamin Slough and tributaries from Utah Lake to headwaters, except as listed below	2B 3B 4
Beer Creek (Utah County) from 4850 West (in NE1/4NE1/4 sec. 36, T.8 S., R.1 E.) to headwaters	2B 3C 4
Salt Creek, from Nephi diversion to headwaters	2B 3A 4
Currant Creek, from mouth of Goshen Canyon to Mona Reservoir Burriston Creek, from Mona	2B 3A 4
Reservoir to headwaters  Peteetneet Creek and tributaries, from irrigation diversion above Maple Dell to headwaters	2B 3A 4 2B 3A 4
Summit Creek and tributaries (above Santaquin), from U.S. National Forest boundary to headwaters	2B 3A 4
All other permanent streams entering Utah Lake	2B3B4Formatted: Norwegian (Bokmål)

13.6 Sevier River Basin a. Sevier River Drainage

Sevier River and tributaries from Sevier Lake to Gunnison Bend Reservoir to U.S.National Forest boundary except			
as listed below	2B	3C	4
Beaver River and tributaries from Minersville City to headwaters	2B 3.	A	4
Little Creek and tributaries, From irrigation diversion to Headwaters	2B 3.	A	4
Pinto Creek and tributaries, From Newcastle Reservoir to Headwaters	2B 3.	A	4
Coal Creek and tributaries	2B 3.	A	4
Summit Creek and tributaries	2B 3.	A	4
Parowan Creek and tributaries	2B 3.	A	4
Tributaries to Sevier River from Sevier Lake to Gunnison Bend Reservoir from U.S. National Forest boundary to			
headwaters, including:	2B 3.	A	4
Pioneer Creek and tributaries, Millard County	2B 3.	A	4
Chalk Creek and tributaries, Millard County	2B 3.	A	4
Meadow Creek and tributaries, Millard County	2B 3.	A	4
Corn Creek and tributaries, Millard County	2B 3.	A	4
Sevier River and tributaries below U.S. National Forest boundary from Gunnison Bend Reservoir to Annabella Diversion except except as listed below	2B	3B	4
Oak Creek and tributaries, Millard County	2B 3.	A	4
Round Valley Creek and			

	0.7	0.7			
tributaries, Millard County	2B	3A			4
Judd Creek and tributaries, Juab County	2B	3A			4
Meadow Creek and tributaries, Juab County	2B	3A			4
Cherry Creek and tributaries Juab County	2B	3A			4
Tanner Creek and tributaries, Juab County	2B			3E	4
Baker Hot Springs, Juab County	2B		3D		4
Chicken Creek and tributaries, Juab County	2B	3A			4
San Pitch River and tributaries, from confluence with Sevier River to Highway U-132 crossing except As listed below:	2B		3C 3D		4
Twelve Mile Creek (South Creek) and tributaries, from U.S. Forest Service boundary to headwaters	2B	3A			4
Six Mile Creek and tributaries, Sanpete County	2B	3A			4
Manti Creek (South Creek) and tributaries, from U.S. Forest boundary to headwaters		3A			4
Ephraim Creek (Cottonwood Creek) and tributaries, from U.S. Forest Service to headwaters	2B	3A			4
Oak Creek and tributaries, from U.S. Forest Service boundary near Spring City to headwaters	2B	3A			4
Fountain Green Creek and tributaries, from U.S. Forest Service boundary to headwaters	2B	3A			4

San Pitch River and tributaries,

from Highway U-132 crossing to headwaters		2B 3A	4
Tributaries to Sevier River from Gunnison Bend Reservoir to Annabelle Diversion from U.S. National Forest boundary to headwaters		2B 3A	4
Sevier River and tributaries, from Annabella diversion to headwaters		2B 3A	4
Monroe Creek and tributaries, from diversion to headwaters		2B 3A	4
Little Creek and tributaries, from irrigation diversion to headwaters		2B 3A	4
Pinto Creek and tributaries, from Newcastle Reservoir to headwaters		2B 3A	4
Coal Creek and tributaries		2B 3A	4
Summit Creek and tributaries		2B 3A	4
Parowan Creek and tributaries		2B 3A	4
Duck Creek and tributaries	1C	2B 3A	4
13.7 Great Salt Lake Basin a. Western Great Salt Lake Draina	ige		Formatted: Norwegian (Bokmál)
TABLE			
Grouse Creek and tributaries, Box Elder County		2B 3A	4
Muddy Creek and tributaries, Box Elder County		2B 3A	4
Dove Creek and tributaries, Box Elder County		2B 3A	4
Pine Creek and tributaries, Box Elder County		2B 3A	4
Rock Creek and tributaries, Box Elder County		2B 3A	4
Fisher Creek and tributaries, Box 27			

Elder County	2B 3A	4
Dunn Creek and tributaries, Box Elder County	2B 3A	4
Indian Creek and tributaries, Box Elder County	2B 3A	4
Tenmile Creek and tributaries, Box Elder County	2B 3A	4
Curlew (Deep) Creek, Box Elder County	2B 3A	4
Blue Creek and tributaries, from Great Salt Lake to Blue Creek Reservoir	2B 3D	4
Blue Creek and tributaries, from Blue Creek Reservoir to headwate:	rs 2B 3B	4
All perennial streams on the east slope of the Pilot Mountain Range	1C 2B 3A	4
Donner Creek and tributaries, from irrigation diversion to Utah-Nevada state line	2B 3A	4
Bettridge Creek and tributaries, from irrigation diversion to Utah-Nevada state line	2B 3A	4
North Willow Creek and tributaries, Tooele County	2B 3A	4
South Willow Creek and tributaries, Tooele County	2B 3A	4
Hickman Creek and tributaries, Tooele County	2B 3A	4
Barlow Creek and tributaries, Tooele County	2B 3A	4
Clover Creek and tributaries, Tooele County	2B 3A	4
Faust Creek and tributaries, Tooele County	2B 3A	4
Vernon Creek and tributaries, Tooele County	2B 3A	4

Ophir Creek and tributaries, Tooele County		2B 3A		4
Soldier Creek and Tributaries from the Drinking Water Treatment Facility Headwaters, Tooele County	t 1C	2B 3A		4
Settlement Canyon Creek and tributaries, Tooele County		2B 3A		4
Middle Canyon Creek and tributaries, Tooele County		2B 3A		4
Tank Wash and tributaries, Tooele County		2B 3A		4
Basin Creek and tributaries, Juab and Tooele Counties		2B 3A		4
Thomas Creek and tributaries, Juab County		2B 3A		4
Indian Farm Creek and tributaries, Juab County		2B 3A		4
Cottonwood Creek and tributaries, Juab County		2B 3A		4
Red Cedar Creek and tributaries, Juab County		2B 3A		4
Granite Creek and tributaries, Juab County		2B 3A		4
Trout Creek and tributaries, Juab County		2B 3A		4
Birch Creek and tributaries, Juab County		2B 3A		4
Deep Creek and tributaries, from Rock Spring Creek to headwaters, Juab and Tooele Counties		2B 3A		4
Cold Spring, Juab County		2B	3C 3D	
Cane Spring, Juab County		2B	3C 3D	
Lake Creek, from Garrison (Pruess) Reservoir to Nevada	29			

state line		2B	3A			4
Snake Creek and tributaries, Millard County		2B		3B		4
Salt Marsh Spring Complex, Millard County		2B	3A			
Twin Springs, Millard County		2B		3B		
Tule Spring, Millard County		2B			3C 3D	
Coyote Spring Complex, Millard County		2B			3C 3D	
Hamblin Valley Wash and tributaries, from Nevada state line to headwaters (Beaver and Iron Counties)		2B			3D	4
Indian Creek and tributaries, Beaver County, from Indian Creek Reservoir to headwaters		2B	3A			4
Shoal Creek and tributaries, Iron County		2B	3A			4
b. Farmington Bay Drainage						
<ul><li>b. Farmington Bay Drainage</li><li>TABLE</li></ul>						
TABLE  Corbett Creek and tributaries, from Highway to headwaters Kays Creek and tributaries,		2B	3A			4
TABLE  Corbett Creek and tributaries, from Highway to headwaters Kays Creek and tributaries, from Farmington Bay to U.S. National Forest boundary		2B 2B		3B		4
TABLE  Corbett Creek and tributaries, from Highway to headwaters Kays Creek and tributaries, from Farmington Bay to U.S.				3B		
Corbett Creek and tributaries, from Highway to headwaters Kays Creek and tributaries, from Farmington Bay to U.S. National Forest boundary North Fork Kays Creek and tributaries, from U.S. National Forest boundary to headwaters Middle Fork Kays Creek and tributaries, from U.S. National Forest boundary to headwaters Middle Fork Kays Creek and tributaries, from U.S. National Forest boundary to headwaters South Fork Kays Creek and	1C	2B	3A	3B		4
Corbett Creek and tributaries, from Highway to headwaters Kays Creek and tributaries, from Farmington Bay to U.S. National Forest boundary North Fork Kays Creek and tributaries, from U.S. National Forest boundary to headwaters Middle Fork Kays Creek and tributaries, from U.S. National Forest boundary to headwaters South Fork Kays Creek and tributaries, from U.S. National Forest boundary to headwaters South Fork Kays Creek and tributaries, from U.S. National Forest boundary to headwaters Snow Creek and tributaries Holmes Creek and tributaries,	1C 1C	2B 2B	3A 3A	3B	3C	4
Corbett Creek and tributaries, from Highway to headwaters Kays Creek and tributaries, from Farmington Bay to U.S. National Forest boundary North Fork Kays Creek and tributaries, from U.S. National Forest boundary to headwaters Middle Fork Kays Creek and tributaries, from U.S. National Forest boundary to headwaters South Fork Kays Creek and tributaries, from U.S. National Forest boundary to headwaters South Fork Kays Creek and tributaries, from U.S. National Forest boundary to headwaters Snow Creek and tributaries		2B 2B 2B	3A 3A	3B	3C	4 4 4

from Bormington Day to							
from Farmington Bay to			ΩD			2.0	1
Interstate Highway 15 Baer Creek and tributaries,			ZΒ			3C	4
from Interstate Highway 15 to							
Highway US-89			2B		3B		4
Baer Creek and tributaries, from	m		20		ЭБ		4
Highway US-89 to headwaters		1C	2B	3A			4
Shepard Creek and tributaries,		10	ترے	JA			-
from U.S. National Forest							
boundary to headwaters		1C	2B	3A			4
Farmington Creek and tributaries	S.	10	טם	J11			-
from Farmington Bay Waterfowl	~ /						
Management Area to U.S. National	1						
Forest boundary	_		2B		3B		4
Farmington Creek and tributaries	s.				-		_
from U.S. National Forest	~ /						
boundary to headwaters		1C	2B	3A			4
Rudd Creek and tributaries,							
from Davis aqueduct to headwate	rs		2B	3A			4
Steed Creek and tributaries,							
from U.S. National Forest							
boundary to headwaters		1C	2B	3A			4
Davis Creek and tributaries,							
from Highway US-89 to headwater	S		2B	3A			4
Lone Pine Creek and tributaries							
from Highway US-89 to headwater			2B	3A			4
Ricks Creek and tributaries, from	om						
Highway I-15 to headwaters		1C	2B	3A			4
Barnard Creek and tributaries,							
from Highway US-89 to headwater	s		2B	3A			4
Parrish Creek and tributaries,							
from Davis Aqueduct to headwate:	rs		2B	3A			4
Deuel Creek and tributaries, (Co	entervill	.e					
Canyon) from Davis Aqueduct to							
headwaters			2B	3A			4
Stone Creek and tributaries, from	om						
Farmington Bay Waterfowl	_						
Management Area to U.S. National	1						
Forest boundary			2B	3A			4
Stone Creek and tributaries,							
from U.S. National Forest			٥.				
boundary to headwaters		1C	2B	3A			4
Barton Creek and tributaries,							
from U.S. National Forest			0 D	2.7			4
boundary to headwaters			ZΒ	3A			4
Mill Creek (Davis County) and tributaries, from confluence							
with State Canal to U.S.							
National Forest boundary			ΩD		ЭD		4
Mill Creek (Davis County)			2B		3B		4
and tributaries, from U.S.							
National Forest boundary to							
headwaters		1C	2 R	3A			4
TICAGWACELD	2.1	10	دے	JA			7

North Canyon Creek and tributaries, from U.S. National Forest boundary to headwaters Howard Slough Hooper Slough Willard Slough Willard Creek to Headwaters Chicken Creek to Headwaters Cold Water Creek to Headwaters One House Creek to Headwaters Garner Creek to Headwaters	1C 1C 1C 1C	2B 3A 2B 3A 2B 3A 2B 3A 2B 3A 2B 3A	С	4 4 4 4 4 4 4 4 4 4 4
a. Raft River Drainage (Box Elde TABLE	r County	Y)		
Raft River and tributaries		2B 3A		4
		ZB JA		4
Clear Creek and tributaries, from Utah-Idaho state line to headwaters		2B 3A		4
Onemile Creek and tributaries, from Utah-Idaho state line to headwaters		2B 3A		4
George Creek and tributaries, from Utah-Idaho state line to headwaters		2B 3A		4
Johnson Creek and tributaries, from Utah-Idaho state line to headwaters		2B 3A		4
Birch Creek and tributaries, from state line to headwaters		2B 3A		4
Pole Creek and tributaries, from state line to headwaters		2B 3A		4
Goose Creek and tributaries		2B 3A		4
Hardesty Creek and tributaries, from state line to headwaters		2B 3A		4
Meadow Creek and tributaries, from state line to headwaters		2B 3A		4
13.9 All irrigation canals and otherwise designated: 2B 13.10 All drainage canals and otherwise designated: 2B 32		3E 4		

# 13.11 National Wildlife Refuges and State Waterfowl Management Areas, and other Areas Associated with the Great Salt Lake

Bear River National Wildlife Refuge, Box Elder County	2B	3B	3D	
Bear River Bay Open Water below approximately 4,208 ft. Transitional Waters approximately 4,208 ft. to Open Water Open Water above approximately 4,208 ft.	2B	3B	3D	5C 5E
Brown's Park Waterfowl Management Area, Daggett County	2B 3A		3D	
Clear Lake Waterfowl Management Area, Millard County	2B	3C	3D	
Desert Lake Waterfowl Management Area, Emery County	2B	3C	3D	
Farmington Bay Waterfowl Management Area, Davis and Salt Lake Counties	2B	3C	3D	
Farmington Bay Open Water below approximately 4,208 ft. Transitional Waters approximately 4,208 ft. to Open Water Open Water above approximately 4,208 ft.	2B	3B	5D 3D	5E
Fish Springs National Wildlife Refuge, Juab County	2B	3	C 3D	
Harold Crane Waterfowl Management Area, Box Elder County	2B	3	C 3D	
Gilbert Bay Open Water below approximately 5A			4,208	ft.
Transitional Waters approximately 4,208 ft. to Open Water Open Water above approximately 4,208 ft.	2B	3B	3D	5E

Gunnison Bay Open Water below approximately				
4,208 ft. Transitional Waters approximately			5B	
4,208 ft. to Open Water			5E	
Open Water above approximately 4,208 ft.	2B	3B	3D	
Howard Slough Waterfowl Management Area, Weber County	2B	3C 3D		
Locomotive Springs Waterfowl Management Area, Box Elder County	2B	3B	3D	
Ogden Bay Waterfowl Management Area, Weber County	2B	3C 3D		
Ouray National Wildlife Refuge, Uintah County	2B	3B	3D	
Powell Slough Waterfowl Management Area, Utah County	2B	3C	3D	
Public Shooting Grounds Waterfowl Management Area, Box Elder County	2B	3C	3D	
Salt Creek Waterfowl Management Area, Box Elder County		2B	3C 3D	
Stewart Lake Waterfowl Management Area, Uintah County	2B	3B	3D	
Timpie Springs Waterfowl Management Area, Tooele County	2B	3B	3D	

13.12 Lakes and Reservoirs. All lakes and any reservoirs greater than 10 acres not listed in 13.12 are assigned by default to the classification of the stream with which they are associated.

a. Beaver County

Anderson Meadow Reservoir		2B 3A		4
Manderfield Reservoir		2B 3A		4
LaBaron Reservoir		2B 3A		4
Kent's Lake	2B 3A		4	
Minersville Reservoir		2B 3A	3D	4

	Puffer Lake				2B	3A			
	Three Creeks Reservoir				2B	3A			4
	b. Box Elder County								
		TABLE							
	Cutler Reservoir (including portion in Cache County)				2B		3B	3D	4
	Etna Reservoir				2B	3A			4
	Lynn Reservoir				2B	3A			4
	Mantua Reservoir				2B	3A			4
	Willard Bay Reservoir		1C	2A	2B		3B	3D	4
	c. Cache County								
		TABLE							
	Hyrum Reservoir			2A	2B	3A	**		4
	Newton Reservoir				2B	3A			4
	Porcupine Reservoir				2B	3A			4
	Pelican Pond				2B		3B		4
	Tony Grove Lake				2B	3A			4
	d. Carbon County								
		TABLE							
	Grassy Trail Creek Reservoir		1C		2B	3A			4
	Olsen Pond				2B		3B		4
	Scofield Reservoir		1C		2B	3A			4
	e. Daggett County								
		TABLE							
	Browne Reservoir				2B	3A			4
	Daggett Lake				2B	3A			4
İ	Flaming Gorge Reservoir (Utah portion)	35	1C	2A	2B	3A			4

Long Park Reservoir		1C	2B 3A	4
Sheep Creek Reservoir			2B 3A	4
Spirit Lake Upper Potter Lake			2B 3A 2B 3A	4 4
f. Davis County				
	TABLE			
Farmington Ponds			2B 3A	4
Kaysville Highway Ponds			2B 3A	4
Holmes Creek Reservoir			2B 3B	4
g. Duchesne County				
	TABLE			
Allred Lake			2B 3A	4
Atwine Lake			2B 3A	4
Atwood Lake			2B 3A	4
Betsy Lake			2B 3A	4
Big Sandwash Reservoir		1C	2B 3A	4
Bluebell Lake			2B 3A	4
Brown Duck Reservoir			2B 3A	4
Butterfly Lake			2B 3A	4
Cedarview Reservoir			2B 3A	4
Chain Lake #1			2B 3A	4
Chepeta Lake			2B 3A	4
Clements Reservoir			2B 3A	4
Cleveland Lake			2B 3A	4
Cliff Lake			2B 3A	4
Continent Lake			2B 3A	4
Crater Lake	3.6		2B 3A	4

2B 3A	4
2B 3A	4
2B 3B	4
2B 3A	4
2B 3A	4
2B 3A	4
1C 2A 2B 3A	4
2B 3A	4
	2B 3A

Palisade Lake	:	2B	3A	4
Pine Island Lake	:	2B	3A	4
Pinto Lake	:	2B	3A	4
Pole Creek Lake	:	2B	3A	4
Potter's Lake	:	2B	3A	4
Powell Lake	:	2B	3A	4
Pyramid Lake	2A :	2B	3A	4
Queant Lake	:	2B	3A	4
Rainbow Lake	:	2B	3A	4
Red Creek Reservoir	:	2B	3A	4
Rudolph Lake	:	2B	3A	4
Scout Lake	2A :	2B	3A	4
Spider Lake	:	2B	3A	4
Spirit Lake	:	2B	3A	4
Starvation Reservoir	1C 2A	2B	3A	4
Superior Lake	:	2B	3A	4
Swasey Hole Reservoir	:	2B	3A	4
Taylor Lake	:	2B	3A	4
Thompson Lake	:	2B	3A	4
Timothy Reservoir #1	:	2B	3A	4
Timothy Reservoir #6	:	2B	3A	4
Timothy Reservoir #7	:	2B	3A	4
Twin Pots Reservoir	1C :	2B	3A	4
Upper Stillwater Reservoir	1C :	2B	3A	4
X - 24 Lake	:	2B	3A	4

h. Emery County

Cleveland Reservoir	2B 3A	4
Electric Lake	2B 3A	4
Huntington Reservoir	2B 3A	4
Huntington North Reservoir	2A 2B 3B	4
Joe's Valley Reservoir	2A 2B 3A	4
Millsite Reservoir	1C 2A 2B 3A	4
i. Garfield County		
TABLE		
Barney Lake	2B 3A	4
Cyclone Lake	2B 3A	4
Deer Lake	2B 3A	4
Jacob's Valley Reservoir	2B 3C 3D	4
Lower Bowns Reservoir	2B 3A	4
North Creek Reservoir	2B 3A	4
Panguitch Lake	2B 3A	4
Pine Lake	2B 3A	4
Oak Creek Reservoir (Upper Bowns)	2B 3A	4
Pleasant Lake	2B 3A	4
Posey Lake	2B 3A	4
Purple Lake	2B 3A	4
Raft Lake	2B 3A	4
Row Lake #3	2B 3A	4
Row Lake #7	2B 3A	4
Spectacle Reservoir	2B 3A	4
Tropic Reservoir	2B 3A	4
West Deer Lake	2B 3A	4

Wide Hollow Reservoir			2B	3A				4
j. Iron County								
	TABLE							
Newcastle Reservoir			2B	3A				4
Red Creek Reservoir			2B	3A				4
Yankee Meadow Reservoir			2B	3A				4
k. Juab County								
	TABLE							
Chicken Creek Reservoir			2B			3C 3	3D	4
Mona Reservoir			2B		3B			4
Sevier Bridge (Yuba) Reservoir	î	2A	2B		3B			4
1. Kane County								
	TABLE							
Navajo Lake			2B	ЗА				4
m. Millard County								
	TABLE							
DMAD Reservoir			2B		3B			4
Fools Creek Reservoir			2B			3C 3	3D	4
Garrison Reservoir (Pruess Lak	ce)		2B		3B			4
Gunnison Bend Reservoir			2B		3B			4
n. Morgan County								
	TABLE							
East Canyon Reservoir		1C 2A	2B	ЗА				4
Lost Creek Reservoir		1C	2B	3A				4
o. Piute County								
	TABLE							
Barney Reservoir	40		2B	3A				4

Lower Boxcreek Reservoir			2B 3	3A		4
Manning Meadow Reservoir 4						2B 3A
Otter Creek Reservoir			2B 3	3A		4
Piute Reservoir			2B 3	3A		4
Upper Boxcreek Reservoir			2B 3	3A		4
p. Rich County						
	TABLE					
Bear Lake (Utah portion)		2A	2B 3	3A		4
Birch Creek Reservoir			2B 3	3A		4
Little Creek Reservoir			2B 3	3A		4
Woodruff Creek Reservoir			2B 3	3A		4
q. Salt Lake County						
	TABLE					
Decker Lake			2B	3B	3D	4
Lake Mary		1C	2B 3	3A		
Little Dell Reservoir		1C	2B 3	3A		
Mountain Dell Reservoir		1C	2B 3	3A		
r. San Juan County						
	TABLE					
Blanding Reservoir #4		1C	2B 3	3A		4
Dark Canyon Lake		1C	2B 3	3A		4
Ken's Lake			2B 3	3A**		4
Lake Powell (Utah portion)		1C 2A	2B	3B		4
Lloyd's Lake		1C	2B 3	3A		4
Monticello Lake			2B 3	3A		4
Recapture Reservoir	41		2B 3	3A		4

### s. Sanpete County

	TABLE	
Duck Fork Reservoir	2B	3A 4
Fairview Lakes	1C 2B	3A 4
Ferron Reservoir	2B	3A 4
Lower Gooseberry Reservoir	1C 2B	3A 4
Gunnison Reservoir	2B	3C 4
Island Lake	2B	3A 4
Miller Flat Reservoir	2B	3A 4
Ninemile Reservoir	2B	3A 4
Palisade Reservoir	2A 2B	3A 4
Rolfson Reservoir	2B	3C 4
Twin Lakes	2B	3A 4
Willow Lake	2B	3A 4
t. Sevier County		
	TABLE	
Annabella Reservoir	2B	3A 4
Big Lake	2B	3A 4
Farnsworth Lake	2B	3A 4
Fish Lake	2B	3A 4
Forsythe Reservoir	2B	3A 4
Johnson Valley Reservoir	2B	3A 4
Koosharem Reservoir	2B	3A 4
Lost Creek Reservoir	2B	3A 4
Redmond Lake	2B	3B 4
Rex Reservoir	2B	3A 4

Salina Reservoir			2B	3A	4
Sheep Valley Reservoir			2B	3A	4
u. Summit County					
	TABLE				
Abes Lake			2B	3A	4
Alexander Lake			2B	3A	4
Amethyst Lake			2B	3A	4
Beaver Lake			2B	3A	4
Beaver Meadow Reservoir			2B	3A	4
Big Elk Reservoir			2B	3A	4
Blanchard Lake			2B	3A	4
Bridger Lake			2B	3A	4
China Lake			2B	3A	4
Cliff Lake			2B	3A	4
Clyde Lake			2B	3A	4
Coffin Lake			2B	3A	4
Cuberant Lake			2B	3A	4
East Red Castle Lake			2B	3A	4
Echo Reservoir		1C 2A	2B	3A	4
Fish Lake			2B	3A	4
Fish Reservoir			2B	3A	4
Haystack Reservoir #1			2B	3A	4
Henry's Fork Reservoir			2B	3A	4
Hoop Lake			2B	3A	4
Island Lake			2B	3A	4
Island Reservoir			2B	3A	4
Jesson Lake	43		2B	3A	4

Kamas Lake		2B	3A	4
Lily Lake		2B	3A	4
Lost Reservoir		2B	3A	4
Lower Red Castle Lake		2B	3A	4
Lyman Lake	2A	2B	3A	4
Marsh Lake		2B	3A	4
Marshall Lake		2B	3A	4
McPheters Lake		2B	3A	4
Meadow Reservoir		2B	3A	4
Meeks Cabin Reservoir		2B	3A	4
Notch Mountain Reservoir		2B	3A	4
Red Castle Lake		2B	3A	4
Rockport Reservoir	1C 2A	2B	3A	4
Ryder Lake		2B	3A	4
Sand Reservoir		2B	3A	4
Scow Lake		2B	3A	4
Smith Moorehouse Reservoir	1C	2B	3A	4
Star Lake		2B	3A	4
Stateline Reservoir		2B	3A	4
Tamarack Lake		2B	3A	4
Trial Lake	1C	2B	3A	4
Upper Lyman Lake		2B	3A	4
Upper Red Castle		2B	3A	4
Wall Lake Reservoir		2B	3A	4
Washington Reservoir		2B	3A	4
Whitney Reservoir		2B	3A	4

### v. Tooele County

Steinaker Reservoir

TABLE				
Blue Lake		2B	3B	4
Clear Lake		2B	3B	4
Grantsville Reservoir		2B 3A		4
Horseshoe Lake		2B	3B	4
Kanaka Lake		2B	3B	4
Rush Lake		2B	3B	
Settlement Canyon Reservoir		2B 3A		4
Stansbury Lake		2B	3B	4
Vernon Reservoir		2B 3A		4
w. Uintah County				
TABLE				
Ashley Twin Lakes (Ashley Creek)	1C	2B 3A		4
Bottle Hollow Reservoir		2B 3A		4
Brough Reservoir		2B 3A		4
Calder Reservoir		2B 3A		4
Crouse Reservoir		2B 3A		4
East Park Reservoir		2B 3A		4
Fish Lake		2B 3A		4
Goose Lake #2		2B 3A		4
Matt Warner Reservoir		2B 3A		4
Oaks Park Reservoir		2B 3A		4
Paradise Park Reservoir		2B 3A		4
Pelican Lake		2B	3B	4
Red Fleet Reservoir	1C 2A	2B 3A		4

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1C 2A 2B 3A 4

Towave Reservoir				2B	3A			4
Weaver Reservoir				2B	3A			4
Whiterocks Lake				2B	3A			4
Workman Lake				2B	3A			4
x. Utah County								
	TABLE							
Salem Pond			2A		3A			4
Silver Flat Lake Reservoir				2B	3A			4
Tibble Fork Resevoir				2B	3A			4
Utah Lake				2B		3B	3D	4
y. Wasatch County								
	TABLE							
Currant Creek Reservoir		1C		2B	3A			4
Deer Creek Reservoir		1C	2A	2B	3A			4
Jordanelle Reservoir		1C	2A		ЗА			4
Mill Hollow Reservoir				2B	3A			4
Strawberry Reservoir		1C		2B	3A			4
z. Washington County								
	TABLE							
Baker Dam Reservoir				2B	3A			4
Gunlock Reservoir		1C	2A	2B		3B		4
Ivins Reservoir				2B		3B		4
Kolob Reservoir				2B	3A			4
Lower Enterprise Reservoir				2B	3A			4
Quail Creek Reservoir		1C	2A	2B		3B		4
Upper Enterprise Reservoir				2B	3A			4

### aa. Wayne County

•	TABLE		
Blind Lake	2E	3 A	4
Cook Lake	2E	3 A	4
Donkey Reservoir	2E	3 A	4
Fish Creek Reservoir	2E	3 A	4
Mill Meadow Reservoir	2E	3 A	4
Raft Lake	2E	3 A	4
bb. Weber County			
•	TABLE		
Causey Reservoir	2E	3 A	4

13.13 Unclassified Waters
All waters not specifically classified are presumptively classified as 2B, 3D.

1C 2A 2B 3A\*\* 4

### R317-2-14. Numeric Criteria.

Pineview Reservoir

### TABLE 2.14.1 NUMERIC CRITERIA FOR DOMESTIC, RECREATION, AND AGRICULTURAL USES

Parameter	Domestic Source	Recreat Aesth		Agri- culture
	1C	2A	2B	4
BACTERIOLOGIC. (30-DAY GEOME	· <del></del> ·			
MEAN) (NO.)/1	00 ML) (7)			
E. coli	206	126	206	
MAXIMUM (NO.)/100 ML) E. coli	(7) 668	409	668	
PHYSICAL				
pH (RANGE) Turbidity Inc		6.5-9	.0 6.5-9.0	6.5-9.0
(NTU)	case	10	10	
METALS (DISS	OLVED, MAXIMUM			

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1	MG/L) (2)					Formatted: English (U.S.)
<b>A</b>	Arsenic	0.01			0.1	Formatted: English (U.S.)
					0.1	
	Barium	1.0				
	Beryllium	<0.004				
	Cadmium	0.01			0.01	
	Chromium	0.05			0.10	
	Copper				0.2	
	Lead	0.015			0.1	
	Mercury	0.002			0.1	
	Selenium				0.05	
		0.05			0.05	
	Silver	0.05				
	INORGANICS					
	(DISSOLVED, MAXIMUM MO	G/L				
•	Bromate	0.01				
	Boron	0.01			0.75	
	Chlorite	<1.0			0.75	
	Fluoride (3)	1.4-2.4				
	Nitrates as N	10				
	Total Dissolved					
	Solids (4)				1200	
		RADIOLOGI	CAL			
	(MAXIMUM pCi/L)					
1	Gross Alpha	15			15	Formattad, Fralish (U.C.)
I <b>-</b>	Gross Beta	4 mrem/yr			<del>-</del> -	Formatted: English (U.S.)
	Gross Bela	4 mrem/vr				
1		, 1 -				
<b> </b>	Radium 226, 228	• •				Formatted: Norwegian (Bokmål)
1	Radium 226, 228 (Combined)	5				Formatted: Norwegian (Bokmål)
<b>_</b>	Radium 226, 228 (Combined) Strontium 90	• •				Formatted: Norwegian (Bokmål)
<b> </b> •	Radium 226, 228 (Combined)	5				Formatted: Norwegian (Bokmål)
<b></b>	Radium 226, 228 (Combined) Strontium 90 Tritium	5 8 20000				Formatted: Norwegian (Bokmål)
<b> </b>	Radium 226, 228 (Combined) Strontium 90	5				Formatted: Norwegian (Bokmål)
	Radium 226, 228 (Combined) Strontium 90 Tritium Uranium	5 8 20000				Formatted: Norwegian (Bokmål)
<b> </b>	Radium 226, 228 (Combined) Strontium 90 Tritium Uranium ORGANICS	5 8 20000				Formatted: Norwegian (Bokmål)
	Radium 226, 228 (Combined) Strontium 90 Tritium Uranium	5 8 20000				Formatted: Norwegian (Bokmål)
	Radium 226, 228 (Combined) Strontium 90 Tritium Uranium  ORGANICS (MAXIMUM UG/L)	5 8 20000				Formatted: Norwegian (Bokmål)
	Radium_226, 228 (Combined) Strontium 90 Tritium Uranium  ORGANICS (MAXIMUM UG/L)  Chlorophenoxy	5 8 20000				Formatted: Norwegian (Bokmål)
<b> </b>	Radium 226, 228 (Combined) Strontium 90 Tritium Uranium  ORGANICS (MAXIMUM UG/L)  Chlorophenoxy Herbicides	5 8 20000 30				Formatted: Norwegian (Bokmål)
	Radium 226, 228 (Combined) Strontium 90 Tritium Uranium  ORGANICS (MAXIMUM UG/L)  Chlorophenoxy Herbicides	5 8 20000				Formatted: Norwegian (Bokmål)
	Radium 226, 228 (Combined) Strontium 90 Tritium Uranium  ORGANICS (MAXIMUM UG/L)  Chlorophenoxy Herbicides 2,4-D	5 8 20000 30				Formatted: Norwegian (Bokmål)
	Radium_226, 228 (Combined) Strontium 90 Tritium Uranium  ORGANICS (MAXIMUM UG/L)  Chlorophenoxy Herbicides 2,4-D 2,4,5-TP	5 8 20000 30 70				Formatted: Norwegian (Bokmål)
	Radium 226, 228 (Combined) Strontium 90 Tritium Uranium  ORGANICS (MAXIMUM UG/L)  Chlorophenoxy Herbicides 2,4-D	5 8 20000 30				Formatted: Norwegian (Bokmål)
	Radium 226, 228 (Combined) Strontium 90 Tritium Uranium  ORGANICS (MAXIMUM UG/L)  Chlorophenoxy Herbicides 2,4-D 2,4,5-TP Methoxychlor	5 8 20000 30 70				Formatted: Norwegian (Bokmål)
	Radium_226, 228 (Combined) Strontium 90 Tritium Uranium  ORGANICS (MAXIMUM UG/L)  Chlorophenoxy Herbicides 2,4-D 2,4,5-TP Methoxychlor  POLLUTION	5 8 20000 30 70				Formatted: Norwegian (Bokmål)
	Radium 226, 228 (Combined) Strontium 90 Tritium Uranium  ORGANICS (MAXIMUM UG/L)  Chlorophenoxy Herbicides 2,4-D 2,4,5-TP Methoxychlor	5 8 20000 30 70				Formatted: Norwegian (Bokmål)
	Radium_226, 228     (Combined) Strontium 90 Tritium Uranium  ORGANICS (MAXIMUM UG/L)  Chlorophenoxy     Herbicides 2,4-D 2,4,5-TP Methoxychlor  POLLUTION INDICATORS (5)	5 8 20000 30 70				Formatted: Norwegian (Bokmål)
	Radium_226, 228     (Combined) Strontium 90 Tritium Uranium  ORGANICS (MAXIMUM UG/L)  Chlorophenoxy     Herbicides 2,4-D 2,4,5-TP Methoxychlor  POLLUTION INDICATORS (5)  BOD (MG/L)	5 8 20000 30 70	5	5	5	Formatted: Norwegian (Bokmål)
	Radium_226, 228     (Combined) Strontium 90 Tritium Uranium  ORGANICS (MAXIMUM UG/L)  Chlorophenoxy     Herbicides 2,4-D 2,4,5-TP Methoxychlor  POLLUTION INDICATORS (5)  BOD (MG/L) Nitrate as N (MG/L)	5 8 20000 30 70	5 4	5 4	5	Formatted: Norwegian (Bokmål)
	Radium_226, 228     (Combined) Strontium 90 Tritium Uranium  ORGANICS (MAXIMUM UG/L)  Chlorophenoxy     Herbicides 2,4-D 2,4,5-TP Methoxychlor  POLLUTION INDICATORS (5)  BOD (MG/L)	5 8 20000 30 70			5	Formatted: Norwegian (Bokmål)
	Radium 226, 228   (Combined) Strontium 90 Tritium Uranium  ORGANICS (MAXIMUM UG/L)  Chlorophenoxy   Herbicides 2,4-D 2,4,5-TP   Methoxychlor  POLLUTION INDICATORS (5)  BOD (MG/L) Nitrate as N (MG/L) Total Phosphorus as P	5 8 20000 30 70		4	5	Formatted: Norwegian (Bokmål)
	Radium_226, 228     (Combined) Strontium 90 Tritium Uranium  ORGANICS (MAXIMUM UG/L)  Chlorophenoxy     Herbicides 2,4-D 2,4,5-TP Methoxychlor  POLLUTION INDICATORS (5)  BOD (MG/L) Nitrate as N (MG/L)	5 8 20000 30 70	4		5	Formatted: Norwegian (Bokmål)
	Radium 226, 228     (Combined) Strontium 90 Tritium Uranium  ORGANICS (MAXIMUM UG/L)  Chlorophenoxy     Herbicides 2,4-D 2,4,5-TP Methoxychlor  POLLUTION INDICATORS (5)  BOD (MG/L) Nitrate as N (MG/L) Total Phosphorus as P (MG/L) (6)	5 8 20000 30 70	4	4	5	Formatted: Norwegian (Bokmål)
	Radium 226, 228   (Combined) Strontium 90 Tritium Uranium  ORGANICS (MAXIMUM UG/L)  Chlorophenoxy   Herbicides 2,4-D 2,4,5-TP   Methoxychlor  POLLUTION INDICATORS (5)  BOD (MG/L) Nitrate as N (MG/L) Total Phosphorus as P	5 8 20000 30 70	4	4	5	Formatted: Norwegian (Bokmål)

<sup>(1)</sup> Reserved
(2) The dissolved metals method involves filtration of the sample in the field, acidification of the sample in the field, no digestion process in the laboratory, and analysis by approved

laboratory methods for the required detection levels.

 $\mbox{(3)}$  Maximum concentration varies according to the daily maximum mean air temperature.

TEMP (C)	MG/I
12.0	2.4
12.1-14.6	2.2
14.7-17.6	2.0
17.7-21.4	1.8
21.5-26.2	1.6
26.3-32.5	1.4

(4) Site-specific criteria for total dissolved solids may be adopted by rulemaking where it is demonstrated that: (a) a less stringent criterion is appropriate because of natural or un-alterable conditions; or (b) a less stringent, site-specific criterion and/or date-specified criterion is protective of existing\_and attainable agricultural uses; or (c) a more stringent criterion\_is attainable and necessary for the protection of sensitive crops.\_\_For water quality assessment purposes, up to 10% of representative\_samples may exceed the standard.

SITE SPECIFIC STANDARDS FOR TOTAL DISSOLVED SOLIDS (TDS)

Castle Creek from confluence with the Colorado River to Seventh Day

Adventist Diversion: 1,800 mg/l;

Cottonwood Creek from the confluence with Huntington Creek to I-57:

3,500 mg/l;

Ferron Creek from the confluence with San Rafael River to Highway 10: 3,500 mg/l;

Huntington Creek and tributaries from the confluence with Cottonwood

Creek to U-10: 4,800 mg/l;

Ivie Creek and its tributaries from the confluence with Muddy
Creek
to U-10: 2,600 mg/l;

Lost Creek from the confluence with Sevier River to U.S. Forest Service Boundary: 4,600 mg/l;

Muddy Creek and tributaries from the confluence with Ivie Creek to U-10: 2,600  $\mbox{mg/l};$ 

Muddy Creek from confluence with Fremont River to confluence with <a href="Ivie">Ivie</a> Creek: 5,800 mg/l;

Comment [CWB5]: Quitchupah flows into Ivie which flows into the Muddy.

Deleted: Ouitchupah

North Creek from the confluence with Virgin River to headwaters: 2,035 mg/l;

Onion Creek from the confluence with Colorado River to road crossing above Stinking Springs: 3000 mg/l;

Brine Creek-Petersen Creek, from the confluence with the Sevier River to U-119 Crossing: 9,700 mg/l;

Price River and tributaries from confluence with Green River to confluence with Soldier Creek: 3,000 mg/l;

Price River and tributaries from the confluence with Coal Creek to Carbon Canal Diversion: 1,700  $\,\mathrm{mg}/\mathrm{l}$ 

Price River and tributaries from the confluence with Green River to confluence with Soldier Creek: 3,000 mg/l;

Quitchupah Creek from the confluence with Ivie Creek to U-10: 1,700 mg/l;

Rock Canyon Creek from the confluence with Cottonwood Creek to headwaters: 3,500 mg/l;

San Pitch River from below Gunnison Reservoir to the Sevier River: 2,400 mg/l;

San Rafael River from the confluence with the Green River to Buckhorn Crossing: 4,100 mg/l;

San Rafael River from the Buckhorn Crossing to the confluence with Huntington Creek and Cottonwood Creek: 3,500 mg/l;

Sevier River between Gunnison Bend Reservoir and DMAD Reservoir: 1,725 mg/l;

Sevier River from Gunnison Bend Reservoir to Clear Lake:  $3,370 \, \mathrm{mg/1}$ ;

South Fork Spring Creek from confluence with Pelican Pond Slough Stream to US 89 1,450 mg/l (Apr.-Sept.) 1,950 mg/l (Oct.-March)

Virgin River from the Utah/Arizona border to Pah Tempe Springs: 2,360~mg/l

- (5) Investigations should be conducted to develop more information where these pollution indicator levels are exceeded.
  - (6) Total Phosphorus as P (mg/l) indicator for

lakes and reservoirs shall be 0.025.

(7) Where the criteria are exceeded and there is a reasonable basis for concluding that the indicator bacteria E. coli are primarily from natural sources (wildlife), e.g., in National Wildlife Refuges and State Waterfowl Management Areas, the criteria

may be considered attained provided the density attributable to non-wildlife sources is less than the criteria. Exceedences of E. coli from nonhuman nonpoint sources will generally be addressed through appropriate Federal, State, and local nonpoint source programs.

Measurement of E. coli using the "Quanti-Tray 2000" procedure is approved as a field analysis. Other EPA approved methods may also be used.

For water quality assessment purposes, up to 10% of representative samples may exceed the 668 per 100 ml criterion (for 1C and 2B waters) and 409 per 100 ml (for 2A waters). For small datasets, where exceedences of these criteria are observed, follow-up ambient monitoring should be conducted to better characterize water quality.

TABLE 2.14.2 NUMERIC CRITERIA FOR AQUATIC WILDLIFE

Parameter	Aquatic 3A	Wildlife 3B	3C	3D	5
PHYSICAL	311	32	30	32	,
Total Dissolved Gases	(1)	(1)			
Minimum Dissolved Oxyg (MG/L) (2, 2a)	en				
30 Day Average		5.5 6.0/4.0		5.0	
7 Day Average Minimum		5.0/3.0		3.0	
Max. Temperature(C)(3)	20	27	27		
Max. Temperature Change (C)(3)	2	4	4		
рН (Range) <u>(2a)</u>	6.5-	9.0 6.5-	9.0 6.5-	9.0 6.5-9	.0
Turbidity Increase (NTU) METALS (4) (DISSOLVED, UG/L)(5)	10	10	15	15	
Aluminum 4 Day Average (6)	87 51	87	87	87	

1	Hour Average	750	750	750	750	
4	rsenic (Trivalent) Day Average Hour Average	150 340	150 340	150 340	150 340	
4	admium (7) Day Average Hour Average	0.25	0.25	0.25	0.25	
4	Chromium  (Hexavalent)  Day Average  Hour Average  Chromium  (Marine lent) (7)	11 16	11 16	11 16	11 16	
	(Trivalent) (7) Day Average Hour Average	74 570	74 570	74 570	74 570	
4	opper (7) Day Average Hour Average	9 13	9 13	9 13	9 13	
4 1	yanide (Free) Day Average Hour Average Tron (Maximum)	5.2 22 1000	5.2 22 1000	5.2 22 1000	22 1000	
4	ead (7) Day Average Hour Average	2.5	2.5 65	2.5 65	2.5 65	
4	lercury Day Average Hour Average	0.012	0.012 2.4	0.012 2.4	0.012	
4	ickel (7) Day Average Hour Average	52 468	52 468	52 468	52 468	
4	elenium Day Average Hour Average	4.6 18.4	4.6 18.4	4.6 18.4	4.6 18.4	
G G	elenium (14) Hilbert Bay (Class 5A) Freat Salt Lake Heometric Mean over Westing Season (mg/kg o	dry wt)				12.5
	ilver Hour Average (7)		1.6	1.6	1.6	
		52				

Zinc (7) 4 Day Average 1 Hour Average	120 120	120 120	120 120	120 120
INORGANICS (MG/L) (4) Total Ammonia as N (9) 30 Day Average 1 Hour Average	(9a) (9b)	(9a) (9b)	(9a) (9b)	(9a) (9b)
Chlorine (Total Residual) 4 Day Average 1 Hour Average		0.011	0.011	0.011 0.019
Hydrogen Sulfide (13) (Undissociated, Max. UG/L) Phenol(Maximum) RADIOLOGICAL (MAXI	2.0 0.01 MUM pCi/L)	2.0 0.01		2.0 0.01
Gross Alpha (10)	15	15	15	15
ORGANICS (UG/L) (4) Aldrin 1 Hour Average	1.5	1.5	1.5	1.5
Chlordane 4 Day Average 1 Hour Average	0.0043	0.0043	0.0043	0.0043
4,4' -DDT 4 Day Average 1 Hour Average	0.0010 0.55	0.0010 0.55	0.0010 0.55	0.0010 0.55
Diazinon 4 Day Average 1 Hour Average	0.17 0.17	0.17 0.17	0.17 0.17	0.17 0.17
Dieldrin 4 Day Average 1 Hour Average	0.056 0.24	0.056 0.24	0.056 0.24	0.056 0.24
Alpha-Endosulfan 4 Day Average 1 Hour Average	0.056 0.11	0.056 0.11	0.056 0.11	0.056 0.11
beta-Endosulfan 4 Day Average 1 Day Average	0.056 0.11	0.056 0.11	0.056 0.11	0.056 0.11
Endrin 4 Day Average	0.036	0.036	0.036	0.036

	1 Hour Average	0.086	0.086	0.086	0.086	
	Heptachlor 4 Day Average 1 Hour Average	0.0038 0.26	0.0038 0.26	0.0038 0.26	0.0038 0.26	
	Heptachlor epoxide 4 Day Average 1 Hour Average 0.26	0.0038	0.0038	0.0038	0.0038	
	Hexachlorocyclohexane (Lindane) 4 Day Average 1 Hour Average	0.08	0.08	0.08	0.08	
	Methoxychlor (Maximum) Mirex (Maximum)	0.03	0.03	0.03	0.03	
	Nonylphenol 4 Day Average 1 Hour Average	6.6 28.0	6.6 28.0	6.6 28.0	6.6 28.0	
	Parathion 4 Day Average 1 Hour Average	0.013 0.066	0.013 0.066	0.013 0.066	0.013 0.066	
	PCB's 4 Day Average	0.014	0.014	0.014	0.014	
	Pentachlorophenol (11) 4 Day Average 1 Hour Average	15 19	15 19	15 19	15 19	
	Toxaphene 4 Day Average 1 Hour Average	0.0002 0.73	0.0002 0.73	0.0002 0.73	0.0002 0.73	
0.05	POLLUTION INDICATORS (11) Gross Beta (pCi/L) BOD (MG/L) Nitrate as N (MG/L) Total Phosphorus as P	50 5 4	50 5 4 (MG/L) (	50 5 4 (12)	50 5	0.05

### FOOTNOTES:

- (1) Not to exceed 110% of saturation.
  (2) In lakes and reservoirs, these limits are applicable to the epilimnion and metalimnion only. First number in column applies when early life stages are present, second number applies other life stages are present.

Deleted: is for

Deleted: for when

### These limits are not applicable to Class 3D wetlands.

(3) The temperature standard shall be at background where it can be shown that natural or un-alterable conditions prevent its attainment. In such cases rulemaking will be undertaken to modify the standard accordingly.

Site Specific Standards for Temperature Ken's Lake: From June 1<sup>st</sup> - September 20<sup>th</sup>, 27 degrees C.

- (4) Where criteria are listed as 4-day average and 1-hour average concentrations, these concentrations should not be exceeded more often than once every three years on the average.
- (5) The dissolved metals method involves filtration of the sample in the field, acidification of the sample in the field, no digestion process in the laboratory, and analysis by EPA approved laboratory methods for the required detection levels.
- The criterion for aluminum will be implemented as (6) follows:

Where the pH is equal to or greater than 7.0 and the hardness is equal to or greater than 50 ppm as CaCO3 in the receiving water after mixing, the 87 ug/1 chronic criterion (expressed as total recoverable) will not apply, and aluminum will be regulated based on compliance with the 750 ug/1 acute aluminum criterion (expressed as total recoverable).

- (7) Hardness dependent criteria. 100 mg/l used. Conversion factors for ratio of total recoverable metals to hardness greater than 400 mg/l as CaC03, calculations will assume a hardness of 400 mg/l as CaCO3. See Table 2.14.3 for complete equations for hardness and conversion factors.
  - (8) Reserved
- (9) The following equations are used to calculate Ammonia criteria concentrations:
- The thirty-day average concentration of total ammonia (9a) nitrogen (in mg/l as N) does not exceed, more than once every three years on the average, the chronic criterion calculated using the following equations.

```
Fish Early Life Stages are Present:
mg/l as N (Chronic) = ((0.0577/(1+10^{7.688-pH})) + (2.487/(1+10^{pH-7.688})) * MIN (2.85, 1.45*10<sup>0.028*(25-T)</sup>)
  Fish Early Life Stages are Absent:
  mg/1 as \tilde{N} (Chronic) = ((0.0577/(1+10^{7.688-pH}))) + (2.487/(1+10^{pH-}))
```

<sup>7.688</sup>))<u>)</u> \* 1.45\*10<sup>0.028\*</sup> (25-MAX(T,7))

(9b) The one-hour average concentration of total ammonia nitrogen (in mg/l as N) does not exceed, more than once every three years on the average the acute criterion calculated using the following equations.

```
Class 3A:
mg/l \text{ as N (Acute)} = (0.275/(1+10^{7.204-pH})) + (39.0/1+10^{pH-7.204}))
Class 3B, 3C, 3D:
mg/l \text{ as N} (Acute) = 0.411/(1+10<sup>7.204-pH</sup>)) + (58.4/(1+10<sup>pH-7.204</sup>))
```

Deleted: These limits are not applicable to lower water levels¶ in deep impoundments. Fir number in column is for whenearly life stages are present, second number is for when allother life stages present.¶

In addition, the highest four-day average within the 30-day period should not exceed 2.5 times the chronic criterion. The "Fish Early Life Stages are Present" 30-day average total ammonia criterion will be applied by default unless it is determined by the Division, on a site-specific basis, that it is appropriate to apply the "Fish Early Life Stages are Absent" 30-day average criterion for all or some portion of the year. At a minimum, the "Fish Early Life Stages are Present" criterion will apply from the beginning of spawning through the end of the early life stages. Early life stages include the pre-hatch embryonic stage, the post-hatch free embryo or yolk-sac fry stage, and the larval stage for the species of fish expected to occur at the site. The division will consult with the Division of Wildlife Resources in making such determinations. The Division will maintain information regarding the waterbodies and time periods where application of the "Early Life Stages are Absent" criterion is determined to be appropriate.

(10) Investigation should be conducted to develop more information where these levels are exceeded. (11) pH dependent criteria. pH 7.8 used in table. See Table 2.14.4 for equation.

(11) Total Phosphorus as P (mg/l) as a pollution indicator Deleted: 12 for lakes and reservoirs shall be 0.025.

(12) Formula to convert dissolved sulfide to un-disassociated hydrogen sulfide is:  $H_2S$  = Dissolved Sulfide \*  $e^{(\text{-f.f.92 + pH) + 12.05})}$ 

(13) The selenium water quality standard of 12.5 (mg/kg dry weight) for Gilbert Bay is a tissue based standard using the complete egg/embryo of aquatic dependent birds using Gilbert Bay based upon a minimum of five samples over the nesting season. Assessment procedures are incorporated as a part of this standard as follows:

Egg Concentration Triggers: DWQ Responses

Below 5.0 mg/kg: Routine monitoring with sufficient intensity to determine if selenium concentrations within the Great Salt Lake ecosystem are increasing.

- 5.0 mg/kg: Increased monitoring to address data gaps, loadings, and areas of uncertainty identified from initial Great Salt Lake selenium studies.
- 6.4 mg/kg: Initiation of a Level II Antidegradation review by the State for all discharge permit renewals or new discharge permits to Great Salt Lake. The Level II Antidegradation review may include an analysis of loading reductions.
- Initiation of preliminary TMDL studies mg/kg: to evaluateselenium loading sources.
- 12.5 mg/kg and above: Declare impairment. Formalize and implement

TMDL.

### Antidegradation

Level II Review procedures associated with this standard are referenced at R317-2-3.5.C.

## TABLE 1-HOUR AVERAGE (ACUTE) CONCENTRATION OF TOTAL AMMONIA AS N (MG/L)

7.9 6.77 10.1 8.0 5.62 8.40	H .5 .6 .7 .8 .9 .0 .1 .2 .3 .4 .5 .6	Class 3A 32.6 31.3 29.8 28.1 26.2 24.1 22.0 19.7 17.5 15.4 13.3 11.4 9.65 8.11	Class 3B, 3C, 3D 48.8 46.8 44.6 42.0 39.1 36.1 32.8 29.5 26.2 23.0 19.9 17.0 14.4 12.1
8.1       4.64       6.95         8.2       3.83       5.72         8.3       3.15       4.71         8.4       2.59       3.88         8.5       2.14       3.20         8.6       1.77       2.65         8.7       1.47       2.20         8.8       1.23       1.84         8.9       1.04       1.56         9.0       0.89       1.32	.1 .2 .3 .4 .5 .6 .7 .8	4.64 3.83 3.15 2.59 2.14 1.77 1.47 1.23	6.95 5.72 4.71 3.88 3.20 2.65 2.20 1.84 1.56

# TABLE 30-DAY AVERAGE (CHRONIC) CONCENTRATION OF TOTAL AMMONIA AS N (MG/1)

### Fish Early Life Stages Present

				Temper	ature,	C				
рН	0	14	16	18	20	22	24	26	28	30
6.5	6.67	6.67	6.06	5.33	4.68	4.12	3.62	3.18	2.80	2.46
6.6	6.57	6.57	5.97	5.25	4.61	4.05	3.56	3.13	2.75	2.42
6.7	6.44	6.44	5.86	5.15	4.52	3.98	3.50	3.07	2.70	2.37
6.8	6.29	6.29	5.72	5.03	4.42	3.89	3.42	3.00	2.64	2.32
6.9	6.12	6.12	5.56	4.89	4.30	3.78	3.32	2.92	2.57	2.25
7.0	5.91	5.91	5.37	4.72	4.15	3.65	3.21	2.82	2.48	2.18

57

7.1	5.67	5.67	5.15	4.53	3.98	3.50	3.08	2.70	2.38	2.09
7.2	5.39	5.39	4.90	4.31	3.78	3.33	2.92	2.57	2.26	1.99
7.3	5.08	5.08	4.61	4.06	3.57	3.13	2.76	2.42	2.13	1.87
7.4	4.73	4.73	4.30	3.78	3.32	2.92	2.57	2.26	1.98	1.74
7.5	4.36	4.36	3.97	3.49	3.06	2.69	2.37	2.08	1.83	1.61
7.6	3.98	3.98	3.61	3.18	2.79	2.45	2.16	1.90	1.67	1.47
7.7	3.58	3.58	3.25	2.86	2.51	2.21	1.94	1.71	1.50	1.32
7.8	3.18	3.18	2.89	2.54	2.23	1.96	1.73	1.52	1.33	1.17
7.9	2.80	2.80	2.54	2.24	1.96	1.73	1.52	1.33	1.17	1.03
8.0	2.43	2.43	2.21	1.94	1.71	1.50	1.32	1.16	1.02	0.90
8.1	2.10	2.10	1.91	1.68	1.47	1.29	1.14	1.00	0.88	0.77
8.2	1.79	1.79	1.63	1.43	1.26	1.11	0.97	0.86	0.75	0.66
8.3	1.52	1.52	1.39	1.22	1.07	0.94	0.83	0.73	0.64	0.56
8.4	1.29	1.29	1.17	1.03	0.91	0.80	0.70	0.62	0.54	0.48
8.5	1.09	1.09	0.99	0.87	0.76	0.67	0.59	0.52	0.46	0.40
8.6	0.92	0.92	0.84	0.73	0.65	0.57	0.50	0.44	0.39	0.34
8.7	0.78	0.78	0.71	0.62	0.55	0.48	0.42	0.37	0.33	0.29
8.8	0.66	0.66	0.60	0.53	0.46	0.41	0.36	0.32	0.28	0.24
8.9	0.56	0.56	0.51	0.45	0.40	0.35	0.31	0.27	0.24	0.21
9.0	0.49	0.49	0.44	0.39	0.34	0.30	0.26	0.23	0.20	0.18

### TABLE 30-DAY AVERAGE (CHRONIC) CONCENTRATION OF TOTAL AMMONIA AS N (MG/1)

## Fish Early Life Stages Absent Temperature, C

			Tempe	erature	e, C				
рН	0-7	8	9	10	11	12	13	14	16
6.5	10.8	10.1	9.51	8.92	8.36	7.84	7.36	6.89	6.06
6.6	10.7	10.1	9.37	9.37	8.79	8.24	7.72	7.24	6.36
6.7	10.5	9.99	9.20	8.62	8.08	7.58	7.11	6.66	5.86
6.8	10.2	9.81	8.98	8.42	7.90	7.40	6.94	6.51	5.72
6.9	9.93	9.31	8.73	8.19	7.68	7.20	6.75	6.33	5.56
7.0	9.60	9.00	8.43	7.91	7.41	6.95	6.52	6.11	5.37
7.1	9.20	8.63	8.09	7.58	7.11	6.67	6.25	5.86	5.15
7.2	8.75	8.20	7.69	7.21	6.76	6.34	5.94	5.57	4.90
7.3	8.24	7.73	7.25	6.79	6.37	5.97	5.60	5.25	4.61
7.4	7.69	7.21	6.76	6.33	5.94	5.57	5.22	4.89	4.30
7.5	7.09	6.64	6.23	5.84	5.48	5.13	4.81	4.51	3.97
7.6	6.46	6.05	5.67	5.32	4.99	4.68	4.38	4.11	3.61
7.7	5.81	5.45	5.11	4.79	4.49	4.21	3.95	3.70	3.25
7.8	5.17	4.84	4.54	4.26	3.99	3.74	3.51	3.29	2.89
7.9	4.54	4.26	3.99	3.74	3.51	3.29	3.09	2.89	2.54
8.0	3.95	3.70	3.47	3.26	3.05	2.86	2.68	2.52	2.21
8.1	3.41	3.19	2.99	2.81	2.63	2.47	2.31	2.17	1.91
8.2	2.91	2.73	2.56	2.40	2.25	2.11	1.98	1.85	1.63
8.3	2.47	2.32	2.18	2.04	1.91	1.79	1.68	1.58	1.39
8.4	2.09	1.96	1.84	1.73	1.62	1.52	1.42	1.33	1.17
8.5	1.77	1.66	1.55	1.46	1.37	1.28	1.20	1.13	0.990
8.6	1.49	1.40	1.31	1.23	1.15	1.08	1.01	0.951	0.836
8.7	1.26	1.18	1.11	1.04	0.976	0.915	0.858	0.805	0.707
8.8	1.07	1.01	0.944	0.885	0.829	0.778	0.729	0.684	0.601
				58					

```
8.9
          0.917 0.860 0.806 0.758 0.709 0.664 0.623 0.584 0.513
9.0
          0.790 0.740 .694 0.651 0.610 0.572 0.536 0.503 0.442
           18
                   20
                          22
                                 24
                                        26
                                               28
                                                      30
рΗ
          5.33
                 4.68 4.12
                               3.62
6.5
                                       3.18
                                              2.80 2.46
                        4.05
                                       3.13
6.6
          5.25 4.61
                                3.56
                                              2.75
                                                      2.42
                               3.50
                                      3.07 2.70 2.37
          5.15 4.52
                        3.98
6.7
                               3.42
                                      3.00 2.64 2.32
         5.03 4.42 3.89
6.8
         4.89 4.30 3.78
                               3.32 2.92 2.57 2.25
6.9
7.0
         4.72 4.15 3.65
                               3.21 2.82 2.48 2.18
7.1
         4.53 3.98 3.50 3.08 2.70 2.38 2.09
         4.41 3.78 3.33 2.92 2.57 2.26 1.99
7.2
          4.06 3.57 3.13 2.76 2.42 2.13 1.87
7.3

    3.78
    3.32
    2.92
    2.57
    2.26
    1.98
    1.74

    3.49
    3.06
    2.69
    2.37
    2.08
    1.83
    1.61

    3.18
    2.79
    2.45
    2.16
    1.90
    1.67
    1.47

    2.86
    2.51
    2.21
    1.94
    1.71
    1.50
    1.32

    2.54
    2.23
    1.96
    1.73
    1.52
    1.33
    1.17

7.4
          3.78 3.32
7.5
7.6
7.7
7.8
         2.24 1.96 1.73 1.52 1.33 1.17 1.03
7.9
         0.94 1.71 1.50 1.32 1.16 1.02 0.897
8.0
8.1
         0.68 1.47 1.29 1.14 1.00 0.879 0.733
8.2
         0.43 1.26 1.11 0.073 0.855 0.752 0.661
         0.22 1.07 0.941 0.827 0.727 0.639 0.562
8.3
          0.03 0.906 0.796 0.700 0.615 0.541 0.475
8.4
8.5
          0.870 0.765 0.672 0.591 0.520 0.457 0.401
8.6
          0.735 0.646 0.568 0.499 0.439 0.396 0.339
          0.622 0.547 0.480 0.422 0.371 0.326 0.287
8.7
8.8
          0.528 0.464 0.408 0.359 0.315 0.277 0.244
         0.451 0.397 0.349 0.306 0.269 0.237 0.208
8.9
9.0
         0.389 0.342 0.300 0.264 0.232 0.204 0.179
```

#### TABLE 2.14.3a

EQUATIONS TO CONVERT TOTAL RECOVERABLE METALS STANDARD WITH HARDNESS (1) DEPENDENCE TO DISSOLVED METALS STANDARD BY APPLICATION OF A CONVERSION FACTOR (CF).

```
Parameter
               4-Day Average (Chronic)
               Concentration (UG/L)
                CF * e (0.7409 (In(hardness)) -4.719
CADMIUM
                CF = 1.101672 - ln(hardness) (0.041838) Deleted: (In
CHROMIUM III
                CF * e (0.8190(In(hardness)) + 0.6848
                                               CF = 0.860
                CF * e<sup>(0.8545(ln(hardness)) -1.702)</sup>
COPPER
                CF = 0.960
               CF * e<sup>(1.273(ln(hardness))-4.705)</sup>
LEAD
                CF = 1.46203 - ln(hardness) (0.145712)
                                                                                        Deleted: (
                                                                                        Deleted:
                                       59
```

```
SILVER
                N/A
                Cf * e<sup>(0.8473(ln(hardness))+0.884)</sup>
                                           CF = 0.986
ZINC
                                  TABLE 2.14.3b
        EQUATIONS TO CONVERT TOTAL RECOVERABLE METALS STANDARD
      WITH HARDNESS (1) DEPENDENCE TO DISSOLVED METALS STANDARD
               BY APPLICATION OF A CONVERSION FACTOR (CF).
                1-Hour Average (Acute)
Parameter
                Concentration (UG/L)
                 CF * e (1.0166(In(hardness))-3.924)
CADMIUM
                 CF = 1.136672 - <u>ln(</u>hardness)(0.041838)
                                                                                          Deleted: (ln
CHROMIUM (III) CF * e^{(0.8190\,(\ln{(hardness)}) + 3.7256)}
                          CF = 0.316
                 CF * e<sup>(0.9422(ln(hardness))-1.700)</sup>
COPPER
                        CF = 0.960
                 CF * e<sup>(1.273(ln(hardness))-1.460)</sup>
LEAD
                        CF = 1.46203 - ln(hardness)(0.145712)
                                                                                          Deleted: (ln
                 CF * e^{(0.8460(ln(hardness)) + 2.255}
NICKEL
                        CF= 0.998
                 CF * e<sup>(1.72(ln(hardness))-6.59</sup>
SILVER
                        CF = 0.85
                 CF * e<sup>(0.8473(ln(hardness))</sup> +0.884
ZINC
                        CF = 0.978
      FOOTNOTE:
      (1) Hardness as mg/l CaCO<sub>3</sub>.
                                  TABLE 2.14.4
                      EQUATIONS FOR PENTACHLOROPHENOL
                                 (pH DEPENDENT)
      4-Day Average (Chronic)
                                                1-Hour Average (Acute)
      Concentration (UG/L)
                                                Concentration (UG/L)
      e<sup>(1.005(pH))-5.134</sup>
                                             e<sup>(1.005 (pH))-4.869</sup>
                                  TABLE 2.14.5
                          SITE SPECIFIC CRITERIA FOR
```

60

CF \* e<sup>(0.8460(ln(hardness))+0.0584)</sup>

CF = 0.997

NICKEL

### DISSOLVED OXYGEN FOR JORDAN RIVER, SURPLUS CANAL, AND STATE CANAL (SEE SECTION 2.13)

DISSOLVED OXYGEN:
May-July
7-day average 5.5 mg/l
30-day average 5.5 mg/l
Instantaneous minimum 4.5 mg/l
August-April
30-day average 5.5 mg/l
Instantaneous minimum 4.0 mg/l

## TABLE 2.14.6 LIST OF HUMAN HEALTH CRITERIA (CONSUMPTION)

	Chemical	Parameter		and Organism
		ug/L) ass 1C	(u	nism Only g/L) 3A,3B,3C,3D
Antimony		5.6		640
Arsenic		A		A
Beryllium		C		C
Cadmium		C		C
Chromium III		C		C
Chromium VI		C		C
Copper		1,300		<b>a</b>
Lead		C		C
Mercury Nickel		A 100 MCL		A
Selenium		A MCL		4,600
Silver		A		4,200
Thallium		0.24		0.47
Zinc		7,400		26,000
Cyanide		140		140
Asbestos		7 million		140
115205005		Fibers/L		
2,3,7,8-TCDD Dioxin		5.0 E -9 B		5.1 E-9 B
Acrolein		190		290
Acrylonitrile		0.051 B		0.25 B
Alachlor		2.0		
Atrazine		3.0		
Benzene		2.2 B		51 B
Bromoform		4.3 B		140 B
Carbofuran		40		
Carbon Tetrachloride	9	0.23 B		1.6 B
Chlorobenzene		100 MCL		1,600
Chlorodibromomethane	9	0.40 B		13 B
Chloroethane	_			
2-Chloroethylvinyl	Ether			
Chloroform		5.7 B		470 B
Dalapon		200		
		61		

Di(2ethylhexl)adipate	400	
Dibromochloropropane	0.2	
Dichlorobromomethane	0.55 B	17 B
1,1-Dichloroethane		
1,2-Dichloroethane	0.38 B	37 B
1,1-Dichloroethylene	7 MCL	7,100
Dichloroethylene (cis-1,2)	70	
Dinoseb	7.0	
Diquat	20	
1,2-Dichloropropane	0.50 B	15 B
1,3-Dichloropropene	0.34	21
Endothall	100	
Ethylbenzene	530	2,100
Ethylene Dibromide	0.05	
Glyphosate	700	
Haloacetic acids	60 E	
Methyl Bromide	47	1,500
Methyl Chloride	F	F
Methylene Chloride	4.6 B	590 B
Ocamyl (vidate)	200	
Picloram	500	
Simazine	4	
Styrene	100	
1,1,2,2-Tetrachloroethane	0.17 B	4.0 B
Tetrachloroethylene	0.69 B	3.3 B
Toluene	1,000	15,000
1,2 -Trans-Dichloroethylene	100 MCL	10,000
1,1,1-Trichloroethane	200 MCL	F
1,1,2-Trichloroethane	0.59 B	16 B
Trichloroethylene	2.5 B	30 B
Vinyl Chloride	0.025	2.4
Xylenes	10,000	
2-Chlorophenol	81	150
2,4-Dichlorophenol	77	2902,4-
Dimethylphenol	380	850
2-Methyl-4,6-Dinitrophenol	13.0	280
2,4-Dinitrophenol	69	5,300
2-Nitrophenol		
4-Nitrophenol		
3-Methyl-4-Chlorophenol		
Penetachlorophenol	0.27 B	3.0 B
Phenol	21,000	1,700,000
2,4,6-Trichlorophenol	1.4 B	2.4 B
Acenaphthene	670	990
Acenaphthylene		
Anthracene	8,300	40,000
Benzidine	0.000086 B	0.00020 B
BenzoaAnthracene	0.0038 B	0.018 B
BenzoaPyrene	0.0038 B	0.018 B
BenzobFluoranthene	0.0038 B	0.018 B
BenzoghiPerylene		
BenzokFluoranthene	0.0038 B	0.018 B
Bis2-ChloroethoxyMethane		
<del>-</del>	60	

Bis2-ChloroethylEther Bis2-Chloroisopropy1Ether	0.030 B 1,400		0.53 B 65,000	
Bis2-EthylhexylPhthalate 4-Bromophenyl Phenyl Ether	1.2 B		2.2 B	
Butylbenzyl Phthalate	1,500		1,900	
2-Chloronaphthalene	1,000		1,600	
4-Chlorophenyl Phenyl Ether				
Chrysene	0.0038 B		0.018 B	
Dibenzoa, hAnthracene	0.0038 B		0.018 B	
1,2-Dichlorobenzene	420		1,300	
1,3-Dichlorobenzene	320		960	
1,4-Dichlorobenzene	63 0 021 B		190	
3,3-Dichlorobenzidine Diethyl Phthalate	0.021 B		0.028 B 44,000	
Dimethyl Phthalate	17,000 270,000		1,100,000	
Di-n-Butyl Phthalate	2,000		4,500	
2,4-Dinitrotoluene	0.11 B		3.4 B	
2,6-Dinitrotoluene	0.11 5		3.1 2	
Di-n-Octyl Phthalate				
1,2-Diphenylhydrazine	0.036 B		0.20 B	
Fluoranthene	130	140		
Fluorene	1,100		5,300	
Hexachlorobenzene	0.00028 B		0.00029 B	
Hexachlorobutedine	0.44 B		18 B	
Hexachloroethane	1.4 B		3.3 B	
Hexachlorocyclopentadiene	40		1,100	
Ideno 1,2,3-cdPyrene	0.0038 B		0.018 B	
Isophorone Naphthalene	35 B		960 B	
Nitrobenzene	17		690	
N-Nitrosodimethylamine	0.00069 B		3.0 B	
N-Nitrosodi-n-Propylamine	0.005 B		0.51 B	
N-Nitrosodiphenylamine	3.3 B		6.0 B	
Phenanthrene				
Pyrene	830		4,000	
1,2,4-Trichlorobenzene	35		70	
Aldrin	0.000049 B		0.000050 B	
alpha-BHC	0.0026 B		0.0049 B	
beta-BHC	0.0091 B		0.017 B	[
gamma-BHC (Lindane)   delta-BHC	0.2 MCL		1.8	Formatted: Norwegian (Bokmål)
Chlordane	0.00080 B		0.00081 B	
4,4-DDT	0.00022 B 0.00022 B		0.00022 B 0.00022 B	
4,4-DDE 4,4-DDD	0.00031 B		0.00022 B 0.00031 B	
Dieldrin	0.00031 B		0.00051 B	Formatted: Norwegian (Bokmål)
alpha-Endosulfan	62		89	Torriatted. Notwegian (Bokma)
beta-Endosulfan	62		89	
Endosulfan Sulfate	62		89	
Endrin	0.059		0.060	
Endrin Aldehyde	0.29		0.30	
Heptachlor	0.000079 B		0.000079 B	
Heptachlor Epoxide	0.000039 B		0.000039 B	
I	63			

Polychlorinated Biphenyls 0.000064 B,D 0.000064 B,D PCB's 0.00028 B Toxaphene 0.00028 B

Footnotes:

- A. See Table 2.14.2
  B. Based on carcinogenicity of 10-6 risk.
  C. EPA has not calculated a human criterion for this contaminant. However, permit authorities should address this contaminant in NPDES permit actions using the State's existing narrative criteria for toxics
  - D. This standard applies to total PCBs.

KEY: water pollution, water quality standards Date of Enactment or Last Substantive Amendment: January 12, 2009 Notice of Continuation: October 2, 2007 Authorizing, and Implemented or Interpreted Law: 19-5

3.5 Antidegradation Review (ADR)

An antidegradation review will determine whether the proposed activity complies with the applicable antidegradation requirements for receiving waters that may be affected.

An antidegradation review (ADR) may consist of two parts or levels. A Level I review is conducted to insure that existing uses will be maintained and protected. In addition, a Level I review evaluates the criteria in Section 3.5b to determine if any degradation is de minimis in nature and therefore does not require a Level II review. A Level II review as described in Section 3.5c is needed when the impacts are not de minimus.

Both Level I and Level II reviews will be conducted on a parameter-by-parameter basis. A decision to move to a Level II review for one parameter does not require a Level II review for other parameters. Discussion of parameters of concern is those expected to be affected by the proposed activity.

Antidegradation reviews shall include opportunities for public participation, as described in Section 3.5e.

- a. Activities Subject to Antidegradation Review (ADR)
- 1. For all State waters, antidegradation reviews will be conducted for proposed federally regulated activities, such as those under Clean Water Act Sections 401 (FERC and other Federal actions), 402 (UPDES permits), and 404 (Army Corps of Engineers permits). The Executive Secretary may conduct an ADR on other projects with the potential for major impact on the quality of waters of the state. The review will determine whether the proposed activity complies with the applicable antidegradation requirements for the particular receiving waters that may be affected.
- 2. For Category 1 Waters and Category 2 Waters, reviews shall be consistent with the requirement established in Sections 3.2 and 3.3, respectively.
- 3. For Category 3 Waters, reviews shall be consistent with the requirements established in this section
- b. An Anti-degradation Level II review is not required where any of the following conditions apply:
- 1. Water quality will not be lowered by the proposed activity (e.g., a UPDES permit is being renewed and the proposed effluent concentration value and pollutant loading is equal to or less than the existing effluent concentrations value and pollutant loading).
- 2. Assimilative capacity (based upon concentration) is not available or has previously been allocated, as indicated by water quality monitoring or modeling information. This includes situations where:
- (a) the water body is included on the current 303(d) list for the parameter of concern; or
- (b) existing water quality for the parameter of concern does not satisfy applicable numeric or narrative water

quality criteria; or

(c) discharge limits are established in an approved TMDL that is consistent with the current water quality standards for the receiving water (i.e., where TMDLs are established, and changes in effluent limits that are consistent with the existing load allocation would not trigger an antidegradation review).

Under conditions (a) or (b) the effluent limit in an UPDES permit may be equal to the water quality numeric criterion for the parameter of concern.

- 3. Water quality impacts will be temporary and related only to sediment or turbidity and fish spawning will not be impaired,
- The water quality effects of the proposed activity expected to be temporary and limited. As general quidance, CWA Section 402 general permits, CWA Section 404 nationwide and general permits, or activities of short duration, will be deemed to have a temporary and limited effect on water quality where there is a reasonable factual basis to support such a conclusion. The 404 nationwide permits decision will be made at the time of permit issuance, as part of the Division's water quality certification under CWA Section 401. Where it is determined that the category of activities will result in temporary and limited effects, subsequent individual activities authorized under permits will not be subject to further antidegradation review. Factors to be considered in determining whether water quality effects will be temporary and limited may include the following:
- (a) Length of time during which water quality will be lowered.
- (b) Percent change in ambient concentrations of pollutants of concern
  - (c) Pollutants affected
- (d) Likelihood for long-term water quality benefits to the segment (e.g., dredging of contaminated sediments)
- (e) Potential for any residual long-term influences on existing uses.
- (f) Impairment of the fish spawning, survival and development of aquatic fauna excluding fish removal efforts.
- 5. The proposed concentration downstream of the mixing zone:
- (a) would be equal to or less than 50% of the applicable criterion, and the project would consume less than 20% of remaining assimilative capacity; or
- (b) is greater than 50% and less than 75% of the criterion, and the project would consume less than 10% of the remaining assimilative capacity.

Exception: Level II reviews are required if the proposed concentration below the mixing zone is equal to or greater than 75% of the criterion.

c. Anti-degradation Review Process

For all activities requiring a Level II review, the Division will notify affected agencies and the public with

regards to the requested proposed activity and discussions with stakeholders may be held. In the case of Section 402 discharge permits, if it is determined that a discharge will be allowed, the Division of Water Quality will develop any needed UPDES permits for public notice following the normal permit issuance process.

The ADR will cover the following requirements or determinations:

1. Will all Statutory and regulatory requirements be met?

The Executive Secretary will review to determine that there will be achieved all statutory and regulatory requirements for all new and existing point sources and all required cost-effective and reasonable best management practices for nonpoint source control in the area of the discharge. If point sources exist in the area that have not achieved all statutory and regulatory requirements, the Executive Secretary will consider whether schedules of compliance or other plans have been established when evaluating whether compliance has been assured. Generally, the "area of the discharge" will be determined based on the parameters of concern associated with the proposed activity and the portion of the receiving water that would be affected.

2. Are there any reasonable less-degrading alternatives?

There will be an evaluation of whether there are any reasonable non-degrading or less degrading alternatives for the proposed activity. This question will be addressed by the Division based on information provided by the project proponent. Control alternatives for a proposed activity will be evaluated in an effort to avoid or minimize degradation of the receiving water. Alternatives to be considered, evaluated, and implemented to the extent feasible, could include pollutant trading, water conservation, water recycling and reuse, land application, total containment, etc.

For proposed UPDES permitted discharges, the following list of alternatives should be considered, evaluated and implemented to the extent feasible:

- (a) innovative or alternative treatment options
- (b) more effective treatment options or higher treatment levels
  - (c) connection to other wastewater treatment facilities
- (d) process changes or product or raw material substitution
- (e) seasonal or controlled discharge options to minimize discharging during critical water quality periods
  - (f) pollutant trading
  - (q) water conservation
  - (h) water recycle and reuse
- (i) alternative discharge locations or alternative receiving waters
  - (j) land application

- (k) total containment
- (1) improved operation and maintenance of existing treatment systems
  - (m) other appropriate alternatives

An option more costly than the cheapest alternative may have to be implemented if a substantial benefit to the stream can be realized. Alternatives would generally be considered feasible where costs are no more than 20% higher than the cost of the discharging alternative, and (for POTWs) where the projected per connection service fees are not greater than 1.4% of MAGHI (median adjusted gross household income), the current affordability criterion now being used by the Water Quality Board in the wastewater revolving loan program. Alternatives within these cost ranges should be carefully considered by the discharger. Where State financing is appropriate, a financial assistance package may be influenced by this evaluation, i.e., a less polluting alternative may receive a more favorable funding arrangement in order to make it a more financially attractive alternative.

It must also be recognized in relationship to evaluating options that would avoid or reduce discharges to the stream, that in some situations it may be more beneficial to leave the water in the stream for instream flow purposes than to remove the discharge to the stream.

- 3. Special Procedures for 404 Permits.
- For 404 permitted activities, all appropriate alternatives to avoid and minimize degradation should be evaluated. Activities involving a discharge of dredged or fill materials that are considered to have more than minor adverse affects on the aquatic environment are regulated by individual CWA Section 404 permits. The decision-making process relative to the 404 permitting program is contained in the 404(b)(1) guidelines (40 CFR Part 230). Prior to issuing a permit under the 404(b)(1) guidelines, the Corps of Engineers:
- (a) makes a determination that the proposed activity discharges are unavoidable (i.e., necessary):
- (b) examines alternatives to the proposed activity and authorize only the least damaging practicable alternative; and
- (c) requires mitigation for all impacts associated with the activity. A  $404\,(b)\,(1)$  finding document is produced as a result of this procedure and is the basis for the permit decision. Public participation is provided for in the process. Because the  $404\,(b)\,(1)$  guidelines contains an alternatives analysis, the executive secretary will not require development of a separate alternatives analysis for the anti-degradation review. The division will use the analysis in the  $404\,(b)\,(1)$  finding document in completing its anti-degradation review and 401 certification.
- 4. Does the proposed activity have economic and social importance?

Although it is recognized that any activity resulting in a discharge to surface waters will have positive and negative

aspects, information must be submitted by the applicant that any discharge or increased discharge will be of economic or social importance in the area.

The factors addressed in such a demonstration may include, but are not limited to, the following:

- (a) employment (i.e., increasing, maintaining, or avoiding a reduction in employment);
  - (b) increased production;
  - (c) improved community tax base;
  - (d) housing;
- (e) correction of an environmental or public health problem; and
- (f) other information that may be necessary to determine the social and economic importance of the proposed surface water discharge.
- The applicant may submit a proposal to mitigate any adverse environmental effects of the proposed activity (e.g., instream habitat improvement, bank stabilization). mitigation plans should describe the proposed mitigation measures and the costs of such mitigation. Mitigation plans will not have any effect on effluent limits or conditions included in a permit (except possibly where a previously completed mitigation project has resulted in an improvement in background water quality that affects a water qualitybased limit). Such mitigation plans will be developed and implemented by the applicant as a means to further minimize the environmental effects of the proposed activity and to socio-economic importance. increase its An effective mitigation plan may, in some cases, allow the Executive Secretary to authorize proposed activities that otherwise not be authorized.
- 6. Will water quality standards be violated by the discharge?

Proposed activities that will affect the quality of waters of the state will be allowed only where the proposed activity will not violate water quality standards.

7. Will existing uses be maintained and protected?

Proposed activities can only be allowed if "existing uses" will be maintained and protected. No UPDES permit will be allowed which will permit numeric water quality standards to be exceeded in a receiving water outside the mixing zone. In the case of nonpoint pollution sources, the non-regulatory Section 319 program now in place will address these sources through application of best management practices to ensure that numeric water quality standards are not exceeded.

8. If a situation is found where there is an existing use which is a higher use (i.e., more stringent protection requirements) than that current designated use, the Division will apply the water quality standards and anti-degradation policy to protect the existing use. Narrative criteria may be used as a basis to protect existing uses for parameters where numeric criteria have not been adopted. Procedures to change the stream use designation to recognize the existing

use as the designated use would be initiated.

d. Special Procedures for Drinking Water Sources

An Antidegradation Level II Review will be required by the Executive Secretary for discharges to waters with a Class 1C drinking water use assigned.

Depending upon the locations of the discharge and its proximity to downstream drinking water diversions, additional treatment or more stringent effluent limits or additional monitoring, beyond that which may otherwise be required to meet minimum technology standards or in stream water quality standards, may be required by the Executive Secretary in order to adequately protect public health and the environment. Such additional treatment may include additional disinfection, suspended solids removal to make the disinfection process more effective, removal of any specific contaminants for which drinking water maximum contaminant levels (MCLs) exists, and/or nutrient removal to reduce the organic content of raw water used as a source for domestic water systems.

Additional monitoring may include analyses for viruses, Giardia, Cryptosporidium, other pathogenic organisms, and/or any contaminant for which drinking water MCLs exist. Depending on the results of such monitoring, more stringent treatment may then be required.

The additional treatment/effluent limits/monitoring which may be required will be determined by the Executive Secretary after consultation with the Division of Drinking Water and the downstream drinking water users.

### e. Public Notice

The public will be provided notice and an opportunity to comment on the conclusions of all completed antidegradation reviews. Where possible, public notice antidegradation review conclusions will be combined with the public notice on the proposed permitting action. In the case of UPDES permits, public notice will be provided through the normal permitting process, as all draft permits are public noticed for 30 days, and public comment solicited, before being issued as a final permit. The Statement of Basis for the draft UPDES permit will contain information on how the ADR was addressed including results of the Level I and Level II reviews. In the case of Section 404 permits from the Corps of Engineers, the Division of Water Quality will develop any needed 401 Certifications and the public notice will be published in conjunction with the US Corps of Engineers public notice procedures. Other permits requiring a Level II review will receive a separate public notice according to the normal State public notice procedures.