



FILED

1985 MAY 17 PM 2:31

STATE OF WEST VIRGINIA
STATE WATER RESOURCES BOARD
1205 Greenbrier Street
Charleston, West Virginia 25311
(304) 348-4002

OFFICE OF THE
SECRETARY OF STATE

STAFF
FRANCES E. HUNTER
Executive Secretary
PAUL L. HILL, JR., PH.D.
Technical Assistant

JOHN C. AILES
P.O. Box 1036
Romney, West Virginia
DR. DAVID E. SAMUEL
Box 16 Rt. 6
Morgantown, West Virginia
ROBERT B. SCOTT
601 David Avenue
Elkins, West Virginia
DR. ALLEN HAMNER
3 Lincoln Way
Buckhannon, West Virginia
WILLIAM PLASS
21 Grandview Drive
Princeton, West Virginia

ROBERT K. PARSONS
ASSISTANT ATTORNEY GENERAL
Legal Advisor
OFFICE LOCATION
1260 Greenbrier Street

NOTICE OF PUBLIC HEARING

AND

COMMENT PERIOD ON PROPOSED RULES

(REVISIONS TO WATER QUALITY STANDARDS)

AGENCY: West Virginia State Water Resources Board
RULE TYPE: Legislative Rule
RULE TITLE: Legislative Rule State Water Resources
Board, Series I, Water Quality Standards

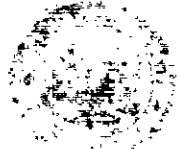
A PUBLIC HEARING ON THE PROPOSED REVISIONS TO WATER
QUALITY STANDARDS WILL BE HELD STARTING AT 9:30 A.M.
ON JUNE 25, 1985 AT 1260 GREENBRIER STREET, CHARLESTON,
WEST VIRGINIA IN ACCORDANCE WITH THE FOLLOWING
SCHEDULE;

<u>TIME</u>	<u>REQUESTER</u>
9:30 A.M.	American Cyanamid Company
10:00 A.M.	Howes Leather
10:30 A.M.	New River Company
11:00 A.M.	Corning Glass
11:30 A.M.	Weirton Steel

COMMENTS SHALL BE LIMITED TO THE PROPOSED REVISIONS AND
MAY BE EITHER: ORAL _____ WRITTEN _____ BOTH X _____.

COMMENTS MAY BE MAILED TO;

State Water Resources Board
1205 Greenbrier Street
Charleston, WV 25311



UNITED STATES HOUSE OF REPRESENTATIVES

COMMITTEE ON THE JUDICIARY

HEARINGS

ON THE NOMINATION OF

JOHN EDGAR HOOVER TO BE

ATTORNEY GENERAL OF THE UNITED STATES

AND ON THE NOMINATION OF

WALTER G. BAKER TO BE

MEMBERS

OF THE

- | | |
|-------------|---------------|
| Mr. Clegg | Mr. E.A. Tamm |
| Mr. Glavin | Mr. Clegg |
| Mr. Ladd | Mr. Glavin |
| Mr. Nichols | Mr. Ladd |
| Mr. Rosen | Mr. Nichols |
| Mr. Tracy | Mr. Rosen |
| Mr. Carson | Mr. Tracy |
| Mr. Egan | Mr. Carson |
| Mr. Gurnea | Mr. Egan |
| Mr. Harbo | Mr. Gurnea |
| Mr. Hendon | Mr. Harbo |
| Mr. Mumford | Mr. Hendon |
| Mr. Quinn | Mr. Mumford |
| Mr. Nease | Mr. Quinn |
| Mr. Tamm | Mr. Nease |
| Mr. Clegg | Mr. Tamm |
| Mr. Glavin | Mr. Clegg |
| Mr. Ladd | Mr. Glavin |
| Mr. Nichols | Mr. Ladd |
| Mr. Rosen | Mr. Nichols |
| Mr. Tracy | Mr. Rosen |
| Mr. Carson | Mr. Tracy |
| Mr. Egan | Mr. Carson |
| Mr. Gurnea | Mr. Egan |
| Mr. Harbo | Mr. Gurnea |
| Mr. Hendon | Mr. Harbo |
| Mr. Mumford | Mr. Hendon |
| Mr. Quinn | Mr. Mumford |
| Mr. Nease | Mr. Quinn |
| Mr. Tamm | Mr. Nease |

COMMITTEE ON THE JUDICIARY, UNITED STATES HOUSE OF REPRESENTATIVES

WASHINGTON, D.C.

1936



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SECRETARY OF STATE

STATE OF WEST VIRGINIA
STATE WATER RESOURCES BOARD

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Princeton, West Virginia

NOTICE OF PUBLIC HEARING

AND

COMMENT PERIOD ON PROPOSED RULES

PUBLIC HEARING

AGENCY: West Virginia State Water Resources Board
RULE TYPE: Legislative Rules
RULE TITLE: Legislative Rules, State Water Resources Board, Series I, Water Quality Standards; Series II, National Pollutant Discharge Elimination System (NPDES); Series III, Special Regulations; Series IX, Underground Injection Control

A PUBLIC HEARING ON THE PROPOSED REVISIONS TO THE ABOVE RULES WILL BE HELD AT 7:00 P.M. ON JUNE 25, 1985 AT THE COONSKIN ARMORY. COMMENTS SHALL BE LIMITED TO THE PROPOSED REVISIONS AND MAY BE EITHER: ORAL _____ WRITTEN _____ BOTH X .

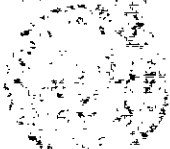
COMMENTS MAY ALSO BE MAILED TO:

State Water Resources Board
1205 Greenbrier Street
Charleston, WV 25311

1. The Board requests that persons wishing to make comments at the hearing make an effort to also submit written comments to facilitate the review process.

2. Copies of the proposed revisions to the above rules may be obtained from the Secretary of State's Office and at the Board's Office, 1260 Greenbrier Street, Charleston, WV 25311 (phone 348-4002) and may be viewed at all Department of Natural Resources' District Offices.

3. The Board realizes that the responsibility for promulgation of certain portions of the above proposed regulations will change as a result of the recently passed "Energy Act",



NOTICE OF PUBLIC HEARING

CONTRACT BILLING ON PROPOSED RULES

POINT OF ORDER

Members of the Board of Public Utilities

Public Utilities Commission

100 North Dearborn Street, Chicago, Illinois

On the 15th day of June, 1955

Present: Mr. Chairman, Mr. Boardman, Mr. Boardman, Mr. Boardman

The Board of Public Utilities has received a request from the Public Utilities Commission for a hearing on the proposed rules for contract billing.

The proposed rules are contained in the attached report of the Public Utilities Commission.

The Public Utilities Commission has requested that the Board of Public Utilities hold a public hearing on the proposed rules.

The hearing will be held on the 22nd day of June, 1955.

The hearing will be held at the Public Utilities Commission.

Chicago, Illinois

The Board of Public Utilities has received a request from the Public Utilities Commission for a hearing on the proposed rules for contract billing. The proposed rules are contained in the attached report of the Public Utilities Commission. The Public Utilities Commission has requested that the Board of Public Utilities hold a public hearing on the proposed rules. The hearing will be held on the 22nd day of June, 1955. The hearing will be held at the Public Utilities Commission. Chicago, Illinois

2. Copies of the proposed rules for contract billing are available for inspection at the Public Utilities Commission, 100 North Dearborn Street, Chicago, Illinois. (Phone 348-4000) and may be viewed at all regular hours of the Public Utilities Commission, District Office.

3. The Board of Public Utilities has received a request from the Public Utilities Commission for a hearing on the proposed rules for contract billing. The proposed rules are contained in the attached report of the Public Utilities Commission. The Public Utilities Commission has requested that the Board of Public Utilities hold a public hearing on the proposed rules. The hearing will be held on the 22nd day of June, 1955. The hearing will be held at the Public Utilities Commission. Chicago, Illinois

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especially as they pertain to coal and oil and gas related issues. However since the majority of the proposed revisions merely update the State regulations to comply with federal EPA regulations this hearing will excellerate the rule making process and it should make the transfer of regulatory responsiblity to the Energy Department more efficient.

Frances E Hunter

Executive Secretary



STATE OF WEST VIRGINIA
STATE WATER RESOURCES BOARD

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PAUL L. HILL, JR., PH.D.
Technical Assistant
ROBERT K. PARSONS
ASSISTANT ATTORNEY GENERAL
Legal Advisor
OFFICE LOCATION
1260 Greenbrier Street

June 13, 1985

The Honorable Ken Hechler
Secretary of State
State Capitol Bldg. # 1 Room 157K
Charleston, WV 25305

Dear Mr. Secretary:

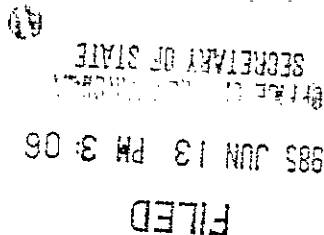
Attached find an errata sheet to be included with the proposed Legislative rules filed in your office on May 17, 1985 relating to Series I, Water Quality Standards and Series II, the National Pollutant Discharge Elimination (NPDES) regulations.

If you have any question do not hesitate to contact this office.

Respectfully submitted,

Frances E. Hunter
Executive Secretary

attachment



FISCAL NOTE FOR PROPOSED RULES

Rule Title: West Virginia State Water Resources Board Series I, II, II and IX

Type of Rule: X Legislative Interpretive Procedural

Agency State Water Resources Board Address 1205 Greenbrier Street

Mailing:
 Charleston, WV 25311
 OFFICE LOCATION:
 1260 Greenbrier Street
 Charleston, WV 25311

1. Effect of Proposed Rule	ANNUAL		FISCAL YEAR		
	Increase	Decrease	Current	Next	Thereafter
Estimated Total Cost	\$	\$	\$	\$	\$
Personal Services					
Current Expense	N O N E		N O N E		
Repairs and Alterations					
Equipment					
Other					

2. Explanation of above estimates.

N/A

3. Objectives of these rules:

1. To resolve EPA objections to rules authorized in 1984.
2. To update Board regulations to conform to 1984 federal regulation changes and federal court decisions.

4. Explanation of Overall Economic Impact of Proposed Rule.

A. Economic Impact on State Government.

None

B. Economic Impact on Political Subdivisions; Specific Industries;
Specific groups of citizens.

Will stream-line and clarify water pollution permit procedures;
thus reducing costs.

C. Economic Impact on Citizens/Public at Large.

None

Date May 16, 1985

Signature of Agency Head or Authorized Representative

Frances E. Hunter

EXECUTIVE SECRETARY



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MAY 17 PM 2:32

STATE OF WEST VIRGINIA
STATE WATER RESOURCES BOARD

1206 Greenbrier Street
Charleston, West Virginia 25311
(304) 348-4002

SECRETARY OF STATE

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WILLIAM PLASS
21 Grandview Drive
Princeton, West Virginia

May 17, 1985

The Honorable Ken Hechler
Secretary of State
State Capitol Bldg. # 1 Room 157K
Charleston, WV 25305

Attn: Mr. Rich O. Hartman

Dear Mr. Secretary:

Enclosed are two copies of proposed amendments to existing rules of the State Water Resources Board's Series I, Water Quality Standards; Series II, National Pollutant Discharge Elimination System (NPDES) Regulations; Series III, Special Regulations; and Series IX, Underground Injection Control (UIC) regulations pursuant to the Administrative Procedures Act for filing in the State Register.

Very truly yours,

Frances E. Hunter
Frances E. Hunter
Executive Secretary

enclosures

c The Honorable Arch A. Moore, Jr.
Governor
Mr. James M. Seif, Administrator -
Region III - U.S. Environmental
Protection Agency



November 1952

The Honorable Earl Warren
U.S. Supreme Court Building
Washington, D.C.

Dear Mr. Chief Justice:

I am writing to you regarding

the two copies of the report of the
President's Commission on the
Attorney General's Office
concerning the activities of
the American Revolution Society
in the State of California.

Very truly yours,

Earl Warren
Chief Justice

The Honorable Earl Warren
U.S. Supreme Court Building
Washington, D.C.

ERRATA SHEET

- Proposed Revisions to Water Quality Standards
(Variances)
- Page
- 15 ****
 Exceptions: to 7.2.2

 (a)....and fluoride not to exceed 2.0 mg/l.
- Proposed Legislative Rule, Series I Water Quality
Standards
- 30 ...
 Aluminum should read 0.5 mg/l (not 5 mg/l).
- Proposed Legislative Rule, Series II, NPDES Regs.
- 26 ...
 Sec. 4.4 (9) Should read:
 Used or manufactured toxics. A listing of any
 toxic pollutant which the applicant ~~does or~~
 ~~expects that it will during the next five (5)~~
 ~~years use~~ currently uses or manufactures as an
 intermediate or final product or by product.
 The Chief may waive or modify this requirement
 for any applicant if the applicant demonstrates
 that it would be unduly burdensome to identify
 each toxic pollutant and the Chief has adequate
 information to issue the permit.
- 38 Sec. 5. (e) Beginning with Line 5....Proper
 operation and maintenance also includes ~~effective~~
 ~~performance, adequate funding, adequate operator~~
 ~~staffing and training, and adequate laboratory~~
 ~~and process controls, and including appropriate~~
 quality assurance procedures.....

ERRATA SHEET

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(Variances)

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~~and process controls, and including appropriate~~
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OFFICE OF THE
SECRETARY OF STATE

STATE OF WEST VIRGINIA
STATE WATER RESOURCES BOARD
1205 Greenbrier Street
Charleston, West Virginia 25311
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WILLIAM PLASS
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Princeton, West Virginia

May 17, 1985

The Honorable Ken Hechler
Secretary of State
State Capitol Bldg. # 1 Room 157K
Charleston, WV 25305

Attn: Mr. Rich O. Hartman

Dear Mr. Secretary:

Enclosed are two copies of proposed amendments to the State Water Resources Board's Series I, Water Quality Standards for filing in the State Register pursuant to the Administrative Procedures Act.

If you have any question do not hesitate to contact this office.

Very truly yours,

Frances E. Hunter
Executive Secretary

enclosures



STATE OF TENNESSEE
DEPARTMENT OF REVENUE
NASHVILLE, TENNESSEE

MAY 11

The People's Bank Building
Nashville, Tennessee
Dear Sir:

Enclosed are two copies of a statement
of the account for the month of May 1933.
The statement is for the period from May 1st
to May 31st, 1933.

If you have any questions or need further information
please contact the office.

[Handwritten Signature]

Director of Revenue
Nashville, Tennessee

Enclosure

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1985 MAY 17 PM 2:31

THE PERIOD FOR RECEIVING WRITTEN COMMENTS ENDS AT 5:00
P.M., JULY 5, 1985. SECRETARY OF STATE

1. The Board requests that persons wishing to make comments at the hearing make an effort to also submit written comments to facilitate the review process.

2. Copies of the proposed revisions to the above rules may be obtained from the Secretary of State's Office and at the Board's Office located at 1260 Greenbrier Street, Charleston, WV 25311 (phone 348-4002) and may be reviewed at all Department of Natural Resources' District Offices. By way of explanation, these proposed revisions, when adopted by the Board, will be inserted into Series I regulations at the Sections indicated.

Frances E. Meenter
Executive Secretary

to one of them. I had a good time and I am

very glad to hear from you.

I am sure you will have a very successful

year. I am sure you will have a very successful year.

I am sure you will have a very successful

year. I am sure you will have a very successful

year. I am sure you will have a very successful

ERRATA SHEET

<u>Page</u>	<u>Proposed Revisions to Water Quality Standards (Variances)</u>
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38	Sec. 5. (e) Beginning with Line 5....Proper operation and maintenance <u>also includes</u> effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, <u>and including</u> appropriate quality assurance procedures.....

WRB
Leg. Rule, 20-5 & 20-5A
Series I

ABSTRACT

The proposed revisions to Series I, Water Quality Standards are generally limited to Sections 4, 6, 7 and 8 and incorporate the new section numbering system required by the Secretary of State's procedures.

The anti-degradation language found in Section 4 was changed to reflect the latest changes in federal regulations as of September 1984.

In Section 6, the water use categories were expanded to include a more detailed break-down of the categories rather than the general broad categories found in the old section. This will clarify specific use categories and assist both the permittee and permit writer in defining the applicable use categories.

Section 7 was extensively rewritten; however substantively there were very few changes. The new language clarifies when water quality standards apply and provides a more detailed identification system for rivers and streams, which will streamline the permitting process yet still adequately protect the State waters. Also certain site specific water quality revisions are included by major river basins. Some of these revisions have been authorized by the Legislature and are merely being incorporated in this revision and five are included as proposed amendments, i.e. see Greenbrier River, Ohio River (2), New River and Potomac River. In addition the public water supply category definition has been expanded for clarification.

The Section 8 has a completely new format to conform with the new water use categories and stream designations. The substantive parts of the section have minor changes to resolve EPA's objections in certain areas of water quality criteria.

Also, an attempt was made to update Series I to include all federal regulation changes pertaining to water quality standards since the last revision to the Board's regulations in 1983.

WRB

~~Adm. Reg. Leg. Rule, 20-5 & 20-5A~~
Series I, Sec. 1.

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~~ADMINISTRATIVE REGULATION~~
WEST VIRGINIA LEGISLATIVE RULE
STATE WATER RESOURCES BOARD
CHAPTER 20-5 & 20-5A
SERIES I

MAY 17 PM 2:32
OFFICE OF THE SECRETARY OF STATE

Title: Requirements Governing Water Quality Standards

Section 1. General

1.01 Scope - These regulations establish requirements governing the discharge or deposit of sewage, industrial wastes and other wastes into the waters of the State and establish water quality standards for the waters of the State standing or flowing over the surface of the State.

1.02 Authority - ~~These regulations are promulgated under the authority of West Virginia Code (Chapter 20, Article 5A, Section 3).~~ W. Va. Code 20-5A-3.

1.03 Filing Date -

1.04 Effective Date -

1.05 ~~These regulations are certified authentic by the Executive Secretary of the State Water Resources Board.~~

WRB

~~Adm. Reg.~~ Leg. Rule, 20-5 & 20-5A
Series I, Sec. 2

"Total recoverable" operationally defined as the amount of a substance or element which passes through a 0.45 micron membrane filter after a sample is acidified to pH = 4 with nitric acid.

"Trout waters" are streams or stream segments which sustain year-round trout populations. Excluded are those streams or stream segments which receive annual stockings of trout but which do not support year-round trout populations.

"Water quality criteria" shall mean levels of parameters or stream conditions that are required to be maintained by these regulations. Criteria may be expressed as a constituent concentration level, or narrative statement, representing a quality of water that supports a designated use or uses.

"Water quality standards" means the combination of water uses to be protected and the water quality criteria to be maintained by these regulations.

"Wet weather streams" are streams that flow in direct response to precipitation; whose channels are at all times above the water table.; which have no flow during sustained periods of no precipitation, or which do not support aquatic life whose life history requires residence in flowing waters for a continuous period of at least six (6) months.

Section 3. Conditions Not Allowable in State Waters

Certain characteristics of sewage, industrial wastes and other wastes cause pollution and are objectionable in all waters of the State. Therefore, the State Water Resources Board does hereby proclaim that the following general conditions are not to be allowed in any waters of the State.

No sewage, industrial wastes or other wastes present in any of the waters of the State shall cause therein or materially contribute to any of the following conditions thereof:

(a) Distinctly visible floating or settleable solids, ~~or suspended solids. -r-scum, foam or oily slicks-~~ This condition shall not apply to those activities at which Best Management Practices in accordance with the State's adopted 208 Water Quality Management Plan are being utilized, maintained and completed on a site-specific basis (this exemption shall not apply to trout waters);

(b) Deposits or sludge banks on the bottom;

(c) Odors in the vicinity of the waters;

(d) Taste or odor that would adversely affect the designated uses of the affected waters;

(e) ~~Concentrations of~~ Materials in concentrations which are harmful, hazardous or toxic to man, animal or aquatic life;

(f) Distinctively visible color;

(g) Concentrations of bacteria which may impair or interfere with the designated uses of the affected waters;

(h) Requiring an unreasonable degree of treatment for the production of potable water by modern water treatment processes as commonly employed;

(i) Any other condition, including radiological exposure, which alters the chemical, physical or biological integrity of the waters of the State.

(j) Distinctly visible scum, foam or oily slicks in quantities resulting in an adverse effect on the designated use(s) of the affected waters.

Section 4. Anti-degradation Policy

It is the policy of the State of West Virginia that existing ~~designated instream~~ water uses shall be maintained and protected as follows:

(a) ~~In all cases,~~ Existing instream beneficial water uses and the level of water quality necessary to protect the existing uses shall be maintained and protected. ~~Any action that would interfere with or become injurious to existing uses cannot be undertaken.~~ Waste assimilation and transport are not recognized as beneficial designated uses. The classification of the waters must take into consideration the use and value of water for public water supplies, protection and propagation of fish, shellfish and wildlife, recreation in and on the water, agricultural, industrial and other purposes including navigation. Sub-categories of a use may be adopted and appropriate criteria set to reflect varying needs of such sub-categories of uses, for example, to differentiate between trout water and other waters.

(b) Uses are deemed attainable if they can be achieved by the imposition of effluent limits required under Sections 301(b) and 306 of the Federal Clean Water Act and use of cost-effective and reasonable best management practices for non point source control. Seasonal uses may be adopted as an alternative to reclassifying a water body or segment thereof to uses requiring less stringent water quality criteria. If seasonal uses are adopted, water quality criteria will be adjusted to reflect the seasonal uses; however, such criteria shall not preclude the attainment and maintenance of a more protective use in another season. ~~Less restrictive uses than those contained in existing stream standards may be established, however, only where it can be demonstrated that a designated use which is not an existing use may be removed, or sub-categories of a use may be established, if it can be demonstrated that attaining the designated use is not feasible because:~~

~~(1) The existing designated use is not attainable because of natural conditions;~~

~~(2) The existing designated use is not attainable because of irretrievable person-induced conditions; or~~

(3)-(1) Application of effluent limitations for existing sources more stringent than those required pursuant to Section 301(b) (2) (A) and (B) and Section 306 of the Federal Act in order to attain the existing designated use would result in substantial and widespread adverse economic and social impact.

(2) Naturally occurring pollutant concentrations prevent the attainment of the use; or

(3) Natural, ephemeral, intermittent or low flow conditions or water levels prevent the attainment of the use, unless these conditions may be compensated for by the discharge of sufficient volume of effluent discharges to enable uses to be met; or

(4) Human caused conditions or sources of pollution prevent the attainment of the use and cannot be remedied or would cause more environmental damage to correct than to leave in place; or

(5) Dams, diversions or other types of hydrologic modifications preclude the attainment of the use, and it is not feasible to restore the water body to its original condition or to operate such modification in a way that would result in the attainment of aquatic life protection uses.

(6) Physical conditions related to the natural features of the water body, such as the lack of a proper substrate, cover, flow, depth, pools, riffles, and the like, unrelated to water quality, preclude attainment of aquatic life protection uses.

(c) The State shall take into consideration the quality of downstream waters and shall assure that its water quality standards provide for the attainment of the water quality standards of downstream waters.

(d) In establishing a less restrictive use or criteria the Board shall follow the requirements for revision of water quality standards as required by Chapter 20-5A-3(a) of the State Act and Section 303 of the

WRB

~~Adm. Reg. Leg. Rule, 20-5 & 20-5A~~
Series I, Sec. 4.

Federal Act and the regulations thereunder. Any revision of water quality standards shall be made with the concurrence of EPA. The Board's administrative procedural regulations for applying for less restrictive uses or criteria shall be followed.

(e) With the exception of the provisions of Section 7.01(c) of this series, the existing trout and other high quality waters must be maintained at their existing high quality unless ~~the Board decides it is determined after public comment and hearing to allow limited degradation as a result of~~ ~~necessary and justifiable economic or social development~~ that allowing lower water quality is necessary to accommodate important economic or social development in the area in which the waters are located. Such a determination may be made by the Board upon petition, or by the Chief in the issuance, reissuance or modification of a permit. If limited degradation is allowed, it shall not result in injury or interference with existing stream water uses or in violation of State or Federal water quality criteria that describe the base levels necessary to sustain the national water quality goal uses of protection and propagation of fish, shellfish and wildlife and recreating in and on the water.

(f) The Board and the Chief shall assure that all new and existing point sources shall achieve the highest established statutory and regulatory requirements applicable to them and ~~that feasible management or regulatory programs pursuant to~~ ~~Section 208 of the Federal Act for non point sources, both~~ ~~existing and proposed, be utilized.~~ shall assure the achievement of cost-effective and reasonable best management practices for non point source control.

(g) In all cases, waters which constitute an 7.2.14 outstanding national resource as designated in Section ~~7.73~~ shall be maintained and protected and improved where necessary.

(h) All applicable requirements of Section 316 (a) of the Federal Act shall apply to modifications of the temperature water quality criteria provided for in these regulations.

WRB

~~Adm. Reg. Leg. Rule, 20-5 & 20-5A~~
Series I, Sec. 6.

Section 6. Water Use Categories

These regulations establish general water use categories and water quality standards for the waters of the State. Occasional utilization for whatever purpose may not constitute a justification for assignment of a water use category to a particular stream segment.

Wherever water quality standards are achieved, these waters may be used for agricultural irrigation, livestock watering and use by wildlife.

Category A: - Water Contact Recreation:

Category A1 - Water Contact Recreation - Impoundments

~~This category includes swimming, fishing, water skiing and certain types of pleasure boating such as sailing in very small craft and outboard motor boats.~~ on stream segments with impoundments.

Category A2 - Water Contact Recreation - Free-Flowing Streams and Rivers

This category includes swimming, water skiing and pleasure boating on free-flowing stream segments.

Category B1.- Water Supply, Public:

This category is used to describe ~~all~~ waters used by the public for drinking purposes for human consumption through a public water system if such a system has at least 15 service connections or regularly serves at least 25 individuals for a period of 60 days or more and applies to water before it is treated. Each segment extending upstream from the intake either one-half (1/2) mile or to the headwater, whichever is the less distance shall be protected by prohibiting the discharge of any pollutants in excess of the concentrations designated for this water use category in Section 8. Those dischargers to stream segments between one-half (1/2) and five (5) miles upstream of an intake must consider the fate and transport of pollutants and demonstrate upon permit application that the concentration of those pollutants will not adversely affect the potability of the water supply. This use shall apply at existing or established points of public water supply withdrawal. It does include water for cooling.

WRB

~~Adm. Reg. Leg. Rule, 20-5 & 20-5A~~
Series I, Sec. 6.

C

Category ~~B2~~.-Water Supply, Industrial.

This category is used to describe all stream segments with one or more waters used for industrial users supplies. It does not include water for cooling.

WRB

~~Adm. Reg. Leg. Rule, 20-5 & 20-5A~~
Series I, Sec. 6.

~~Category B3:--Water Supply, Agricultural:~~

~~This category includes all water used for agriculture,--
including irrigation as well as livestock watering.---It is--
understood that these waters would also be suitable for wildlife--
watering.~~

D

Category C1. - Propagation and Maintenance of Fish and
Other Aquatic Life.

~~This category includes all waters not designated as--
trout waters.~~

~~Category C2. - Trout Waters:~~

~~See Section 2 and Section 7.71.~~

Category D1 - Warm Water Fishery Streams

Streams or stream segments which contain a fishable
population composed overwhelmingly of warm water species. (These
may be stocked with trout seasonally.)

Category D2 - Trout Waters - see Section 2.

Category D3 - Small Non-Fishable Streams

Streams or stream segments which because of their size
or flow patterns do not offer fishing opportunities; they
generally contain only minnows, darters, etc. This category
contains streams which may have potential, with further
information, to be redesignated.

Category D4 - Limited Habitat

Streams or stream segments incapable of meeting criteria
necessary for the support of populations of fish and associated
vertebrate and invertebrate organisms and plants either on a
seasonal or year around basis due to person induced conditions.
This category contains streams which have potential to be
redesignated.

E

Category B. - Water Transport, Cooling and Power.

This category includes cooling water, power production,
commercial and pleasure vessel activity, except those small craft
included in Category A. Cooling water is that water used for
industrial cooling. ~~Power production in this definition is hydro-
power.~~

WRB
Adm.-Reg.-Leg. Rule, 20-5 & 20-5A
Series I, Sec. 6.

Category E1 - Water Transport

This category includes all stream segments modified for water transport and having permanently maintained navigation aides.

Category E2 - Cooling Water

This category includes all stream segments having one or more users for industrial cooling.

Category E3 - Power Production

This category includes stream segments extending from a point 500 feet upstream from the intake to a point one half (1/2) mile below the wastewater discharge point. This category includes all stream segments modified for water transport and having permanently maintained navigation aides. (See Appendix C.)

Section 7. West Virginia Waters

7.01 Applicability of Water Quality Standards

The following shall apply to all West Virginia waters at all times unless a specific exception is made:

I. Water quality standards as described in Section 8. In the absence of any special application or contrary provision, water quality standards shall apply at all times when flows are equal to or greater than the minimum mean 7-consecutive-day drought flow with a 10-year return frequency.

(A) Exceptions: Water quality standards shall not apply:

(1) When the flow is reduced to 7010 or less.

(2) In wet weather streams, or intermittent streams which are dry or have no measurable flow, provided that the designated uses of downstream waters are not adversely affected.

(3) In any mixing zones which are established pursuant to Section 5 of these regulations.

(4) Where lesser quality is due to natural or irretrievable person induced conditions. In such cases the naturally occurring values shall be the applicable criteria.

II. Water Use Categories as described in Section 6.

When streams, tributaries or stream segments are classified for more than one water use category, they shall be protected by criteria for the use category requiring the most stringent protection.

~~-(a)-The following shall apply to all West Virginia waters unless specific exceptions are granted in this section:-~~

~~-(1)-All water use categories described in Section 6 except Category G2 -- Trout Waters and B1 -- Water Supply Public. When stream, tributaries or stream segments are classified for more than one water use category, they shall be protected by water quality standards for the use category requiring the most stringent criteria.-~~

~~-(2)-Water quality standards described in Section 8.-~~

WRB

--Adm.--Reg. Leg. Rule, 20-5 & 20-5A
Series I, Sec. 7.11

~~-(f)--All streams and their tributaries in West Virginia--
--shall be individually identified using an alphanumeric system as--
--identified in the "Key to West Virginia Stream Systems and Major--
--Tributaries" (1956) as published by the Conservation Commission of--
--West Virginia.--The water use category for each segment will be--
--assigned as data relative to existing water quality is obtained.~~

~~MAJOR RIVER BASINS AND THEIR ALPHANUMERIC SYSTEM~~

~~7.11 Potomac River Basin -- P, PC, PNB, PSB and S~~

~~All streams and their tributaries in West Virginia,
--draining to the North Branch of the Potomac River, including the--
--South Branch of the Potomac River.--All streams and their--
--tributaries in West Virginia draining to the Potomac River from--
--its headwaters at the junction of the North and South Branches of--
--the Potomac to the State line at Harpers Ferry, West Virginia,--
--including the Shenandoah River,--~~

~~Exception:~~

~~Except for the unnamed tributary of the South Branch of
--Buzzard Run below Prather Pond shall not have the use of B1,--
--therefore may contain chlorides not to exceed 250 mg/l.--~~

WRB

~~Adm. Reg. Leg. Rule, 20-5 & 20-5A~~
~~Series I, Sec. 7.~~

~~-(b) With the exception noted in this section, water quality standards shall apply at all times when flows are equal to or greater than the minimum mean 7-consecutive-day drought flow with a 10-year return frequency.~~

~~-(c) Water quality standards shall not apply:~~

~~-(1) In wet weather streams, provided that the designated uses of downstream waters are not adversely affected,~~

~~-(2) This subsection does not apply to trout waters.~~

~~-(d) Water quality standards shall not apply in any mixing zones which are established pursuant to Section 5.~~

~~-(e) Water quality criteria shall apply except where lesser quality is due to natural conditions. The naturally occurring values shall be considered to be the applicable criteria.~~

WRB

~~Adm. Reg.~~ Leg. Rule, 20-5 & 20-5A
Series I, Sec. 7.2

7.2 MAJOR RIVER BASINS AND THEIR ALPHANUMERIC SYSTEM

7.2.1 J - James River Basin

All tributaries to the West Virginia-Virginia State line.

7.2.2 P - Potomac River Basin

All tributaries of the main stem of the Potomac River to the West Virginia-Maryland-Virginia State line to the confluence of the North Branch and the South Branch of the Potomac River and all tributaries arising in West Virginia excluding the following major tributaries which are designated as follows:

7.2.2.1 PS - Shenandoah River and all its tributaries arising in West Virginia to the to the West Virginia-Virginia State line

7.2.2.2 PC - Cacapon River and all its tributaries

7.2.2.3 PSB - South Branch and all its tributaries

7.2.2.4 PNB - North Branch

All tributaries to the North Branch arising in West Virginia.

Exceptions: to 7.2.2

(a) Except for the unnamed tributary of the South Branch of Buzzard Run below Prather Pond shall not have the use of B1; therefore may contain chlorides not to exceed 250 mg/l.

(b) Except for Turkey Run a small tributary of Opequon Creek (P-4) of the Potomac River shall not have use B1; and therefore may contain fluoride not to exceed 8 mg/l, ammonia not to exceed 4 mg/l, chlorides not to exceed 530 mg/l, cyanide (as free cyanide HCN + CN) not to exceed 50 ug/l and hexavalent chromium (total) not to exceed 100 ug/l.

WRB

~~Adm. Regs. Leg. Rule, 20-5 & 20-5A~~
~~Series I, Sec. 7.21~~

~~7.21-- Kanawha River Basin:-- Zone one -- K, KP, KC and KE--~~

~~-All of the Kanawha River tributaries from its mouth at Point Pleasant to Gauley Bridge and the main stem of the Kanawha River from the junction of the Gauley and New Rivers at Gauley Bridge to mile point 72 near Diamond, West Virginia.--~~

~~Exceptions:--~~

~~(a)-- For the main stem of the Kanawha River only, the minimum flow shall be 1,896 cfs at mile point 72, and~~

~~(b)-- Except the stretch between the mouth of Little Scary Creek (K31) and the Little Scary impoundment shall not have the use of B1, therefore may contain arsenic not to exceed 200 ug/l and selenium not to exceed 62 ug/l.--~~

~~7.22-- Kanawha River Basin:-- Zone Two -- K--~~

~~-The main stem of the Kanawha River from mile point 0, where it joins the Ohio River, to mile point 72 near Diamond, West Virginia.--~~

~~Exceptions:--~~

~~(a)-- Water use Category B1 shall not apply, and~~

~~(b)-- The minimum flow shall be 1,960 cfs at the Charleston gauge.--~~

Exception: to 7.2.2.4

Except that the Stony River downstream from the limit of the thermal mixing zone (as established by Board Order of 11/20/75) for the Mount Storm Lake wastewater treatment facility to its confluence with the North Branch of the Potomac River is exempt from the 5 F above natural temperature rise; however, the maximum temperature outside the mixing zone shall not exceed 87 F at any time during the months of May through November and not exceed 73 F at any time during the months of December through April.

7.2.3 M - Monongahela River Basin

The Monongahela River mainstem and all its tributaries excluding the following major tributaries which are designated as follows:

7.2.3.1 MC - Cheat River and all its tributaries except those listed below:

7.2.3.1.2 MCB - Blackwater River and all its tributaries

7.2.3.2 MW - West Fork River and all its tributaries

7.2.3.3 MT - Tygart River and all its tributaries except those listed below:

7.2.3.3.1 MTB - Buckhannon River and all its tributaries

7.2.3.3.2 MTM - Middle Fork River and all its tributaries

7.2.3.4 MY - Youghieny River and all its tributaries to the West Virginia-Maryland State line

Exception: to 7.2.3

Except in the main stem of the Monongahela River when the flow, as regulated by the Tygart Reservoir, operated by the U.S. Army Corps of Engineers, is at or below 345 cfs at lock and dam No. 8, river mile point 90.8. This exception does not apply to tributaries of the Monongahela River.

WRB

~~Adm. Reg., Leg. Rule, 20-5 & 20-5A
Series I, Sec. 7.31~~

~~7.31--Bluestone-River, Bluestone-Lake, East-River,
New-River, Gauley-River and Greenbrier-River--
Basins--KNB, KN, KN-60, KNG, KG, KGC and KGW--~~

~~Both the Bluestone and Greenbrier Rivers and all their
tributaries from the Virginia-West Virginia State line to their
individual confluence with the New River, the East River and all
its tributaries arising in Virginia flowing into West Virginia and
returning to Virginia, and portions thereof within the boundary of
the State of West Virginia, the New River, including all
tributaries in addition to those already mentioned from the
Virginia-West Virginia State line to its confluence with the
Gauley River, the Gauley River and all its tributaries including
the Cranberry and Williams Rivers from their source to the
confluence with the New River.~~

~~--Exceptions:--~~

~~Water use Categories B2 and D are deleted in Bluestone
lake and temperature rise shall be limited to no more than 3 F
above natural not to exceed 81 F at any time during the months of
May through November and not to exceed 73 F at any time during
December through April in Bluestone lake.~~

Exception to: 7.2.3.4

Water Use Categories B2, B3, and D are excluded from the tributaries of the Youghiogheny River in West Virginia which flow into Maryland.

7.2.4 O - Ohio River Basin

The Ohio River and all its tributaries to the West Virginia-Ohio-Pennsylvania State lines excluding the following major tributaries which are designated as follows:

7.2.4.1 O1 - Ohio River - main stem. The main stem of the Ohio River from the Ohio-Pennsylvania-West Virginia State line to the Ohio-Kentucky-West Virginia State line

7.2.4.2 O2 - Ohio River - tributaries. All tributaries of the Ohio River excluding the following major tributaries:

Exceptions: to 7.2.4.2

(a) Except the stretch of Conners Run (O-77-A) (a tributary of Fish Creek), from its mouth to the discharge from Conners Run impoundment, shall not have the use B1; therefore may contain arsenic not to exceed 200 ug/l and selenium not to exceed 62 ug/l.

~~(b) - Except the stretch of Harmon Creek (a tributary of the Ohio River) from its mouth to a point 2.2 miles upstream shall be exempt from the specific criteria limitation for temperature. [Reserved.]~~

(c) [Reserved.]

7.2.5 LK - Little Kanawha River

The Little Kanawha River and all its tributaries excluding the following major tributary which is designated as follows:

7.2.5.1 LKH - Hughes River and all its tributaries

WRB
-Adm.-Reg.-Leg. Rule, 20-5 & 20-5A
Series I, Sec. 7.41

-7.41--Big-Sandy-and-Guyandotte-River-Basins--BS,
-BSF,--OG,--OGM-and--OGC--

-All-streams-and-tributaries-of-the-following-rivers-are--
-included:--the-Big-Sandy-River-and-all-of-its-tributaries-arising--
-in-West-Virginia-from-its-mouth-at-Kenova,--West-Virginia-to-the--
-confluence-of-the-Levisa-Fork,--Tug-Fork,--and-all-its-tributaries--
-arising-in-West-Virginia-from-its-confluence-with-Levisa-Fork-to--
-its-headwaters;--all-tributary-streams-to-the-Tug-Fork-crossing-the--
-State-boundary-from-Virginia-to-West-Virginia;--and-the-Guyandotte--
-River-and-all-its-tributaries-from-its-mouth-at-Huntington,--West--
-Virginia-to-its-headwaters.--

-Exceptions:--

-no-exceptions-specified.--

7.2.6 K - Kanawha River Zone 1

The main stem of the Kanawha River from mile point 0, at its confluence with the Ohio River to mile point 72 near Diamond, West Virginia.

7.2.6.1 K - Kanawha River Zone 2

The main stem of the Kanawha River from mile point 72 near Diamond, West Virginia and all its tributaries from mile point 0 to the headwaters excluding the following major tributaries which are designated as follows:

7.2.6.2 KP - Pocatalico River and all its tributaries

7.2.6.3 KC - Coal River and all its tributaries

7.2.6.4 KE - Elk River and all its tributaries

Exceptions: to 7.2.6

(a) Water use category B1 shall not apply.

(b) The minimum flow shall be 1,960 cfs at the Charleston gauge.

Exceptions: to 7.2.6.1

(a) For the main stem of the Kanawha River only, the minimum flow shall be 1,896 cfs at mile point 72.

(b) Except the stretch between the mouth of Little Scary Creek (K-31) and the Little Scary impoundment shall not have the use of B1; therefore may contain arsenic not to exceed 200 ug/l and selenium not to exceed 62 ug/l.

7.2.7 KG - Gauley River

The Gauley River and all its tributaries excluding the following major tributaries which are designated as follows:

7.2.7.1 KGM - Meadow River and all its tributaries

7.2.7.2 KGCH - Cherry River and all its tributaries

7.2.7.3 KGCR - Cranberry River and all its tributaries

7.2.7.4 KGW - Williams River and all its tributaries

WRB

-Adm.-Reg. Leg. Rule, 20-5 & 20-5A
Series I, Sec. 7.51 & Sec. 7.52

-7.51--Ohio-River-Basin--main-Stem--O-

---The-main-stem-of-the-Ohio-River-from-the-
---Ohio-Pennsylvania-West-Virginia-State-line-to-the--
-Ohio-Kentucky-West-Virginia-State-line--

-Exceptions:-

-No-exceptions-specified--

-7.52--Ohio-River-Basin--Tributaries--LK7-LKH7-
-LKW7-LKS-and-OMi--

-All-tributaries-to-the-Ohio-River7-excluding-the-Big-
-Sandy7-Guyandotte-and-Kanawha-Rivers7--

-Exceptions+-

-(a)--Except-the-stretch-of-Conners-Run-(O-77-A)-(a-
-tributary-of-Fish-Creek)7-from-its-mouth-to-the-discharge-from-
-Conners-Run-impoundment7-shall-not-have-the-use-of-B17-therefore-
-may-contain-arsenic-not-to-exceed-200-ug/l-and-selenium-not-to-
-exceed-62-ug/l7---

-(b)--Except-the-stretch-of-Harmon-Creek-(a-tributary-of
-the-Ohio-River)-from-its-mouth-to-a-point-2.2-miles-upstream-shall-
-be-exempt-from-the-specific-criteria-limitation-for-temperature:-

7.2.8 KN - New River

The New River from its confluence with the Gauley River to the Virginia-West Virginia State line and all tributaries excluding the following major tributaries which are designated as follows:

7.2.8.1 KNG - Greenbrier River and all its tributaries

7.2.8.2 KNB - Bluestone River and all its tributaries

7.2.8.3 KNE - East River and all its tributaries

7.2.8.4 KN-60 Bluestone Lake

Exception: to 7.2.8 [Reserved].

Exception: to 7.2.8.1 [Reserved].

Exception: to 7.2.8.4

Water Use Categories B2 and D are deleted in Bluestone lake and temperature rise shall be limited to no more than 3 F above natural not to exceed 81 F at any time during the months of May through November and not to exceed 73 F at any time during December through April in Bluestone Lake.

7.2.9 OG - Guyandotte River

The Guyandotte River and all its tributaries excluding the following major tributary which is designated as follows:

7.2.9.1 OGM - Mud River and all its tributaries

7.2.10 BS - Big Sandy River

The Big Sandy River and all its tributaries arising in West Virginia and to the Kentucky-Virginia-West Virginia State lines excluding the following major tributary which is designated as follows:

7.2.10.1 BST - Tug Fork and all its tributaries

7.2.11 Trout Waters (See Appendix A)

7.2.12 Water Supply, Public (See Appendix B)

WRB

~~Adm. Reg. Leg. Rule, 20-5 & 20-5A
Series I, Sec. 7.61~~

~~7.61-- Monongahela River Basin -- M, MC, MCS, MW,
MT, MTB, MY, and MTM--~~

~~The Monongahela River and all its tributaries--~~

~~Exceptions:~~

~~(a) Flow in the main stem of the Monongahela River, as
regulated by the Tygart Reservoir operated by the U.S. Army Corps
of Engineers, is based on a minimum flow of 345 cfs at Lock and
Dam No. 8, river mile point 90.8. No exception in the flow for
tributary streams--~~

~~(b) Water Use Categories B2, B3, and D are excluded
from the tributaries of the Youghiogheny River in West Virginia
which flow into Maryland--~~

7.2.13 High Quality Waters

High quality waters shall include but are not limited to:

(a) All streams designated by the West Virginia Legislature under the West Virginia Natural Streams Preservation Act, West Virginia Code 25-5B-1, et seq.

(b) West Virginia High Quality Streams Fourth Edition, prepared by the Wildlife Resources Division, Department of Natural Resources (1979).

7.2.14 National Resource Waters

National Resource Waters shall include but are not limited to the following waters of the State:

(a) All Federally designated rivers under the "Wild and Scenic Rivers Act", Public Law 95-542, as amended, 16 U.S.C. 1271, et seq.

(b) All naturally reproducing trout streams.

(c) All streams and other bodies of water in State and national Forests and Parks and Recreation Areas.

(d) National Rivers. "National Parks and Recreation Act of 1978." Public Law 95-625, as amended, 16 U.S.C. 1, et seq.

WRB

~~Adm. Reg. Leg. Rule, 20-5 & 20-5A~~
~~Series I, Sec. 7.71~~

SEE APPENDIX A

~~7.71 Trout Waters~~

~~The primary purpose of this section is to identify~~
~~certain important trout waters. Therefore, this list of trout~~
~~waters includes, but is not limited to the following streams,~~
~~stream sections, lakes, reservoirs and ponds.~~

Stream	County
Abes Run	Pocahontas
Anglins Creek	Nicholas
Anthony Creek (above Big Draft)	Greenbrier
Back Fork Elk River	Webster
Beaver Creek	Pocahontas
Big Bullskin Run	Jefferson
Big Clear Creek	Greenbrier
Big Run	Pendleton
Big Run	Randolph
Blackwater River (above Davis)	Tucker
Blaney hollow	Monongalia
Brushy Fork 9 (above Valley Furnace)	Barbour
Buckhannon River (above Beans Mill)	Upshur
Buffalo Creek	Preston
Camp Brancyh	Hardy
Camp Creek	Mercer
Camp Five Run	Randolph

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--Adm. Reg. Leg. Rule, 20-5 & 20-5A

Series I, Sec. 7.71

<u>-Stream-</u>	<u>-County-</u>
-Cattail-Run-	--Jefferson--
-Cherry-River-	--Nicholas--
-Clover-Run-	--Tucker--
-Cold-Stream--	--Hampshire--
-Cranberry-River-	--Pocahontas, Webster--
	-Nicholas-
-Culverson-Creek-	--Greenbrier--
-Deer-Creek--	--Nicholas--
-Deer-Creek--	--Pocahontas-
-Desert-Fork-	--Webster-
-Dillons-Run---	--Hampshire--
-Dry-Fork-(above-Canebrake)--	--McDowell--
-Dry-Fork-(above-Otter-Creek)--	--Randolph, Tucker--
-Dumpling-Run--	--Hardy--
-Dunlop-Creek-(downstream-from-	--Fayette-
-Harvey-Sewage-Treatment--	
-Plant)	
-East-Fork-Glady-Fork-(above-C-a-P-	--Randolph--
-Compressor-Station)--	
-East-Fork-Greenbrier-River-	--Pocahontas-
-East-River-(above-Kellysville)	--Mercer-
-Edwards-Run-and-Pond--	--Hampshire-
-Elklick-Run--	--Tucker--

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--Adm.--Reg. Leg. Rule, 20-5 & 20-5A
Series I, Sec. 7.71

<u>Stream</u>	<u>County</u>
--Elk River--(above Webster Springs)	--Pocahontas, Webster,-- --Randolph
--Elkwater Fork--	--Randolph--
--Elsley Run--	--Preston--
--Evitts Run--(above Rt. 340)--	--Jefferson--
--Fall Run--	--Webster
--Five Mile Run--	--Pocahontas--
--Flowing Springs Run--(above Halltown)	--Jefferson--
--Gandy Creek--(above Whitmer)--	--Randolph--
--Gauley River--(above Moust Coal Tipple)	--Randolph, Webster
--Glade Creek--	--Fayette--
--Glade Creek--	--Raleigh--
--Glade Fork--	--Randolph--
--Greenbrier River--(above Hosterman)--	--Pocahontas--
--Harlan Run--	--Berkeley--
--Hills Creek--	--Pocahontas
--Horseshoe Run--	--Tucker--
--Knapps Creek--	--Pocahontas
--Laurel Creek--(above Cotton Hill)--	--Fayette--
--Laurel Creek--	--Greenbrier, Nicholas--
--Laurel Creek--	--Monroe--
--Laurel Fork--	--Pendleton--
--Laurel Fork--	--Randolph

WRB

Adm.-Reg. Leg. Rule, 20-5 & 20-5A

Series I, Sec. 7.71

<u>-Stream</u>	<u>-----County--</u>
-Laurel-Fork--	-----Webster---
-Laurel-Run--	-Greenbrier--
-Laurel-Run-	-----Pocahontas---
-Laurel-Run--	-Preston-
-Left-Fork-Right-Fork-Buckhannon-River-	-Upshur--
-Left-Fork-Holly-River-	-Webster--
-Left-Fork-Buckhannon-River-	-Randolph,Upshur-
-Left-Fork-Right-Fork-Little-Kanawha- -River-	-Upshur--
-Little-Clear-Creek-&Laurel-Run- Tributary---	-Greenbrier--
-Little-Fork--	-Pendleton--
-Little-Kanawha-River-(above-Wildeat)-	-Upshur,-Lewis--
-Little-River-(East-Fork)---	-Pocahontas---
-Little-River-(West-Fork)---	-Pocahontas---
-Long-Marsh-Run-	-Jefferson-
-Lost-River--	-Hardy--
-Lower-Cove-Run---	-Hardy---
-Marsh-Fork-(above-Sundial)-	-Raleigh--
-Mash-Fork---	-Mercer
-Maxwell-Run-	-Tucker--
-Meadow-Branch---	-Morgan--
-Meadow-Creek---	-Greenbrier--
-Meadow-Creek--	-Summers--
-Middle-Creek-(above-Route-30-Bridge)-	-Berkeley

WRB

~~Adm.-Reg., Leg. Rule, 20-5 & 20-5A~~
~~Series I, Sec. 7.71~~

--Stream--	--County--
Middle Fork River (above Cassity)-	--Randolph
Mill Creek (above Markwood)-	--Mineral
Mill Creek--	--Fayette--
Mill Creek--	--Berkeley--
Mill Creek--	--Hampshire--
Mill Creek (above Mill Creek)-	--Randolph
Mill Run--	--Barbour
Mill Run--	--Berkeley--
Mill Run--	--Hampshire--
Milligan Creek--	--Greenbrier--
Moores Run	--Hardy--
Morgan Run--	--Monongalia--
Mullenax Run--	--Pocahontas
New Creek--	--Mineral
North River (above Rio)--	--Hardy
North Fork Anthony Creek	--Greenbrier--
North Fork Cherry River	--Greenbrier, Nicholas
North Fork Deer Creek (above Route-- ---28/5)---	--Pocahontas--
North Fork Lunice Creek--	--Grant--
North Fork Patterson Creek	--Grant--
North Fork South Branch--	--Pendleton, Grant--
Opequon Creek--	--Berkeley, Jefferson--

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--Adm.--Reg. Leg. Rule, 20-5 & 20-5A
Series I, Sec. 7.71

--Stream--

--County--

--Spring-Creek--	--Greenbrier--
--Spring-Run--	--Grant--
--Stoney-Creek--	--Pocahontas--
--Sugar-Creek--	--Webster--
--Summersville-Lake-(Tailwaters)- --(above-Collison-Creek)-	--Nicholas--
--Sutton-Lake-(Tailwaters)-(above-- --Route-38/5-Bridge)	--Braxton--
--Swago-Creek--	--Pocahontas--
--Tea-Creek--	--Pocahontas--
--Three-Spring-Run--	--Randolph--
--Tilhance-Creek--	--Berkeley--
--Town-Run--	--Jefferson--
--Trout-Run--	--Hardy--
--Turkey-Creek--	--Monroe--
--Tuscararo-Creek-(above-Martinsburg)	--Berkeley--
--Tygart-River-(above-Huttonsville)	--Randolph--
--Tygart-Tailwaters-(above-Route-119-- --Bridge)-	--Taylor--
--Waites-Run--	--Hardy--
--West-Fork-Greenbrier-River--	--Pocahontas--
--Whiteday-Creek-(above-Smithtown)	--Marion, Monongalia--
--Williams-River-(above-Dyer)--	--Pocahontas, Webster
--Wolf-Creek--	--Fayette--
--Wolf-Creek--	--Preston--
--Wolfpen-Creek--	--Fayette--

WRB

~~Adm. Reg. Leg. Rule, 20-5 & 20-5A~~
Series I, Sec. 7.71

~~-Lakes and Ponds-~~

~~Buffalo Fork~~
~~Coopers Rock--~~
~~Dog Run--~~
~~Edwards Run--~~
~~Fort Ashby--~~
~~French Creek--~~
~~Hawse Run--~~
~~New Creek Dam 14--~~
~~Seneca--~~
~~Spruce Knob--~~
~~Stephens--~~
~~Stonecoal--~~
~~Summersville Reservoir--~~
~~Summit-----~~
~~Sutton Reservoir--~~
~~Peter Creek--~~
~~Thomas Park--~~
~~Trout Pond--~~
~~Warden--~~

~~--County--~~

~~--Pocahontas--~~
~~--Monongalia--~~
~~--Harrison--~~
~~--Hampshire--~~
~~--Mineral--~~
~~--Upshur--~~
~~--Pendleton--~~
~~--Grant--~~
~~--Pocahontas--~~
~~--Randolph--~~
~~--Raleigh--~~
~~--Lewis--~~
~~--Nicholas--~~
~~--Greenbrier--~~
~~--Braxton--~~
~~--Barbour--~~
~~--Tucker--~~
~~--Hardy--~~
~~--Hardy~~

WRB

~~Adm. Reg.~~ Leg. Rule, 20-5 & 20-5A
Series I, Sec. 8.

Section 8. Charts of Specific Water Quality Criteria ~~Standards~~

All streams and their tributaries in West Virginia shall be individually identified using an alphanumeric system as identified in the "Key to West Virginia Stream Systems and major Tributaries" (1956) as published by the Conservation Commission of West Virginia and revised by the West Virginia Department of Natural Resources, Division of Wildlife (1985).

All parameters shall be measured as "total recoverable" as defined in Section 2, unless the pollutant, by nature, is measured in another form, e.g., Hexavalent Chromium, Mercury and Iron shall be measured as "total".

An "X" or numerical value in the use columns of this section shall represent the applicable criteria.

NOTE: Pages 30 to 41 are entirely new and replace old Section 8.

CRITERIA

PARAMETER	UNITS	USE DESIGNATIONS				
		Warmwater D 1,3,4	Troutwater D 2	Recreation A	Public B	All Other Uses
ALUMINUM: Not to exceed 5mg/l.	mg/l	—	5	—	—	—
AMMONIA: The concentration of un-ionized ammonia (NH ₃) shall not exceed 50 ug/l. Un-ionized ammonia shall be determined from values of total ammonia-N, pH and temperature according to the following equation: Un-ionized ammonia = 1.2 (total ammonia-N / (1 + 10 ^(pK_a - pH))) where pK _a = 0.0902 + 2730/(273.2 + T) and T = temperature in degrees C.	ug/l	50	—	50	50	—
The concentration of un-ionized ammonia shall not exceed 20 ug/l.	ug/l	—	20	—	—	—
ARSENIC: Not to exceed 50 ug/l.	ug/l	—	—	—	50	—
Not to exceed 440 ug/l trivalent arsenic.	ug/l	440	440	440	—	—
BARIIUM: Not to exceed 1.0 mg/l	mg/l	1	1	1	1	1
CADMIUM: Hardness mg/l as CaCO ₃ Soluble Cadmium (ug/l) 0-35 1 36-75 2						

Section 8
 SPECIFIC WATER QUALITY
 CRITERIA

PARAMETER	UNITS	USE DESIGNATIONS				
		Warmwater D 1, 3, 4	Trouwater D 2	Recreation A	Public B	All Other Use
CADMIUM Cont'd.						
76-150 greater than 150	5 10	ug/l	—	—	—	up to 10
.....						
Not to exceed 10 ug/l in the Ohio R. mainstem	ug/l	10	—	10	10	—
.....						
Not to exceed 0.4 ug/l where hardness is less than 75 mg/l as CaCO ₃ and 1.2 ug/l in water where hardness is greater than 75 ug/l as CaCO ₃ .	ug/l	—	X	—	—	—
.....						
Hardness mg/l as CaCO ₃	Total Recoverable Cadmium (ug/l)					
0-25	3					
26-50	6					
51-75	8					
76-100	11					
101-150	17					
151-200	23					
201-300	36					
301-400	49	ug/l	X	—	—	—
.....						
CHLORIDE:						
Not to exceed 250 mg/l	mg/l	—	—	—	250	—
.....						
Not to exceed 600 mg/l	mg/l	600	600	—	—	—
.....						
COPPER:						
Not to exceed 1000ug/l	ug/l	—	—	—	1000	—
.....						

Section 8
 SPECIFIC WATER QUALITY
 CRITERIA

PARAMETER	UNITS	USE DESIGNATIONS				
		Warmwater D 1,3,4	Troutwater D 2	Recreation A	Public B	All C
COPPER Cont'd:						
Hardness	Total recoverable					
mg/l as CaCO ₃	Copper (ug/l)					
50	6					
100	11					
200	20					
300	29					
400	38					
500	46					
600	55					
700	63	ug/l	X	X	---	---
CYANIDE:						
(as free cyanide HCN + CN ⁻):						
Not to exceed 5 ug/l						
	ug/l	5	5	5	5	---
DISSOLVED OXYGEN:						
Not less than 5.0 mg/l at any time						
	mg/l	5	---	---	---	---
.....						
Not less than 4.0 mg/l at any time in the Kanawha R. mainstem, Zone 1.						
	mg/l	4	---	---	---	---
.....						
Concentration shall average 5.0 mg/l per calendar day and shall not be less than 4.0 mg/l at any time or place outside any established mixing zone. Ohio R. mainstem.						
	mg/l	X	---	---	---	---
.....						
Not less than 7.0 mg/l in spawning areas and in no case less than 6.0 mg/l at any time.						
	mg/l	---	X	---	---	---

Section 8
 SPECIFIC WATER QUALITY

CRITERIA

PARAMETER	UNITS	USE DESIGNATIONS				
		Warmwater D 1,3,4	Troutwater D 2	Recreation A	Public B	All
FECAL COLIFORM:						
Maximum allowable level of fecal coliform content for Primary Contact Recreation (either MPN or MF) shall not exceed 200/100 ml as a monthly geometric mean based on not less than five samples per month; nor exceed 400/100 ml in more than ten percent of all samples taken during the month; these limits are applicable to waters designated for recreational use during the recreation season (May through October).	counts	—	—	200	—	—
.....						
Maximum allowable level of fecal coliform for other uses (either MPN or MF) shall not exceed 2000/100 ml as a monthly geometric mean based on not less than five samples per month.	counts	2000	2000	—	2000	2000
FLUORIDE:						
Not to exceed 1.4 mg/l.	mg/l	—	—	—	1.4	—
HEXAVALENT CHROMIUM:						
Not to exceed 50 ug/l.	ug/l	—	—	—	50	—
.....						
Not to exceed 10 ug/l.	ug/l	10	—	—	—	—
.....						
Not to exceed 7.2 ug/l.	ug/l	—	7.2	—	—	—
IRON:						
Not to exceed 1.5 mg/l.	mg/l	1.5	—	—	1.5	—
Effluent limitations which may result in a concentration of up to 3.5 mg/l total iron						

WRB

Admin. Reg. Leg. Rule, 20-5 & 20-5A
Series I, Sec. 8.

Section 8

SPECIFIC WATER QUALITY
CRITERIA

PARAMETER	UNITS	USE DESIGNATIONS																								
		Warmwater D 1,3,4	Troutwater D 2	Recreation A	Public B	All C																				
<p>IRON Cont'd.</p> <p>in the stream are allowable upon a demonstration to the Chief by the applicant that such concentration will not have an adverse impact upon designated stream uses. This demonstration is subject to EPA approval and must show either; (1) that the stream is supporting designated uses while containing total iron concentrations higher than the applicable criteria or (2) the stream does not have an aquatic life use to protect. Notwithstanding Series I, Section 4 of the Board's regulations, this demonstration shall be the only demonstration required before the Chief and the Board with respect to water quality related effluent limitations.</p>	mg/l	X	—	—	—	—																				
Not to exceed 0.5 mg/l.	mg/l	—	0.5	—	—	—																				
<p>LEAD:</p> <p>Not to exceed 50 ug/l.</p>	ug/l	—	—	—	50	—																				
<table border="0"> <tr> <td>Hardness</td> <td>Lead</td> </tr> <tr> <td>mg/l as CaCO₃</td> <td>ug/l</td> </tr> <tr> <td>50</td> <td>1.0</td> </tr> <tr> <td>100</td> <td>3.8</td> </tr> <tr> <td>200</td> <td>20</td> </tr> <tr> <td>300</td> <td>50</td> </tr> <tr> <td>400</td> <td>100</td> </tr> <tr> <td>500</td> <td>168</td> </tr> <tr> <td>600</td> <td>258</td> </tr> <tr> <td>700</td> <td>371</td> </tr> </table>	Hardness	Lead	mg/l as CaCO ₃	ug/l	50	1.0	100	3.8	200	20	300	50	400	100	500	168	600	258	700	371	ug/l	X	X	—	—	—
Hardness	Lead																									
mg/l as CaCO ₃	ug/l																									
50	1.0																									
100	3.8																									
200	20																									
300	50																									
400	100																									
500	168																									
600	258																									
700	371																									

Section 8
 SPECIFIC WATER QUALITY
 CRITERIA

PARAMETER	UNITS	USE DESIGNATIONS				
		Warmwater D 1,3,4	Troutwater D 2	Recreation A	Public B	All Other Use
<p>MANGANESE:</p> <p>Not to exceed 1.0 mg/l.</p> <p>Effluent limitations which may result in a concentration up to 2.0 mg/l manganese in the stream are allowable upon a demonstration to the Chief by the applicant that such concentration will not have an adverse impact upon designated stream uses. This demonstration is subject to EPA approval and must show either: (1) the stream is supporting designated uses while containing manganese concentrations higher than the applicable criteria; or (2) the stream does not have an aquatic life use to protect. Notwithstanding Series I, Section 4 of the Board's regulations, this demonstration shall be the only demonstration required before the Chief and the Board with respect to water quality related effluent limitations. This exception does not apply to trout waters.</p>	mg/l	1.0	1.0	---	1.0	---
	mg/l	X	---	---	---	---
<p>MERCURY: (total)</p> <p>The total organism body burden of any aquatic species shall not exceed 0.5 ug/g as total mercury.</p> <p>.....</p> <p>Total mercury concentration in any unfiltered water sample shall not exceed 0.2 ug/l</p>	ug/g	0.5	0.5	---	---	---
	ug/l	0.2	0.2	0.2	0.2	0.2
<p>NICKEL:</p> <p>Not to exceed 50 ug/l.</p>	ug/l	---	50	---	---	---
<p>NITRATE: (as Nitrate - N)</p> <p>Not to exceed 10 mg/l.</p>	mg/l	---	---	---	10	---

WRB

Am. Reg. Leg. Rule, 20-5 & 20-5A
 Series I, Sec. 8.

Section 8
 SPECIFIC WATER QUALITY

CRITERIA

PARAMETER	UNITS	USE DESIGNATIONS																											
		Warmwater D 1,3,4	Troutwater D 2	Recreation A	Public B	All C																							
<p>NITRITE: (as Nitrite - N)</p> <p>Not to exceed 1.0 mg/l.</p> <p>.....</p> <p>Not to exceed 60 ug/l.</p>	<p>mg/l</p> <p>ug/l</p>	<p>1.0</p> <p>—</p>	<p>—</p> <p>60</p>	<p>—</p> <p>—</p>	<p>—</p> <p>—</p>	<p>—</p> <p>—</p>																							
<p>ORGANICS:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Criteria ug/l</th> <th style="text-align: center;">Body Burden ug/g</th> </tr> </thead> <tbody> <tr> <td>Chlordane</td> <td style="text-align: center;">.0043</td> <td style="text-align: center;">1.0</td> </tr> <tr> <td>DDT</td> <td style="text-align: center;">.001</td> <td style="text-align: center;">0.1</td> </tr> <tr> <td>Aldrin-Dieldrin</td> <td style="text-align: center;">.0019</td> <td style="text-align: center;">0.3</td> </tr> <tr> <td>Endrin</td> <td style="text-align: center;">.0023</td> <td style="text-align: center;">0.3</td> </tr> <tr> <td>Toxaphene</td> <td style="text-align: center;">.005</td> <td style="text-align: center;">1.0</td> </tr> <tr> <td>PCB</td> <td style="text-align: center;">.001</td> <td style="text-align: center;">2.0</td> </tr> <tr> <td>Methoxychlor</td> <td style="text-align: center;">.03</td> <td style="text-align: center;">—</td> </tr> </tbody> </table> <p>The organic chemicals listed above shall not exceed the specified water quality criteria. When the specified criteria is less than the practical laboratory quantification level instream values will be calculated from discharge concentrations and flow rates and from fish body burden.</p>		Criteria ug/l	Body Burden ug/g	Chlordane	.0043	1.0	DDT	.001	0.1	Aldrin-Dieldrin	.0019	0.3	Endrin	.0023	0.3	Toxaphene	.005	1.0	PCB	.001	2.0	Methoxychlor	.03	—	<p>ug/g</p> <p>ug/l</p>	<p>X</p> <p>X</p>	<p>X</p> <p>X</p>	<p>X</p> <p>X</p>	<p>X</p> <p>X</p>
	Criteria ug/l	Body Burden ug/g																											
Chlordane	.0043	1.0																											
DDT	.001	0.1																											
Aldrin-Dieldrin	.0019	0.3																											
Endrin	.0023	0.3																											
Toxaphene	.005	1.0																											
PCB	.001	2.0																											
Methoxychlor	.03	—																											
<p>pH:</p> <p>No values below 6.0 nor above 9.0. Higher values due to photosynthetic activity may be tolerated.</p>	<p>unit</p>	<p>X</p>	<p>X</p>	<p>X</p>	<p>X</p>	<p>X</p>																							
<p>PHENOLIC MATERIALS:</p> <p>Not to exceed 5 ug/l.</p>	<p>ug/l</p>	<p>5</p>	<p>5</p>	<p>—</p>	<p>5</p>	<p>—</p>																							

WRB

Admin-Reg. Leg. Rule, 20-5 & 20-5A
Series I, Sec. 8.

Section 8

SPECIFIC WATER QUALITY

CRITERIA

PARAMETER	UNITS	USE DESIGNATIONS				
		Warmwater D 1,3,4	Troutwater D 2	Recreation A	Public B	All C
RADIOACTIVITY:						
Gross Beta activity not to exceed 1000 picocuries per liter (pCi/l), nor shall activity from dissolved strontium-90 exceed 10 pCi/l, nor shall activity from dissolved alpha emitters exceed 3pCi/l.	pCi/l	X	X	X	X	X
.....						
Gross total alpha particle activity (including radium-226 but excluding radon and uranium) shall not exceed 15 pCi/l and combined radium-226 and radium-228 shall not exceed 5 pCi/l; provided that the specific determination of radium-226 and radium-228 are not required if dissolved particle activity does not exceed 5 pCi/l; the concentration of tritium shall not exceed 20,000pCi/l; the concentration of total strontium-90 shall not exceed 8 pCi/l in the Ohio R. mainstem.	pCi/l	X	X	X	X	X
SELENIUM:						
Not to exceed 10 ug/l.	ug/l	—	—	—	10	—
.....						
Not to exceed 35 ug/l Selenite.	ug/l	35	35	—	—	—
SILVER:						
<u>Hardness</u>	<u>Silver ug/l</u>					
0-50	1					
51-100	4					
101-200	12					
greater than 201	24	ug/l	—	X	—	X
.....						
0-50	1					
51-100	4					
101-200	12					
201-400	24					
401-500	30					
501-600	43	ug/l	X	—	—	—

Section 8

SPECIFIC WATER QUALITY

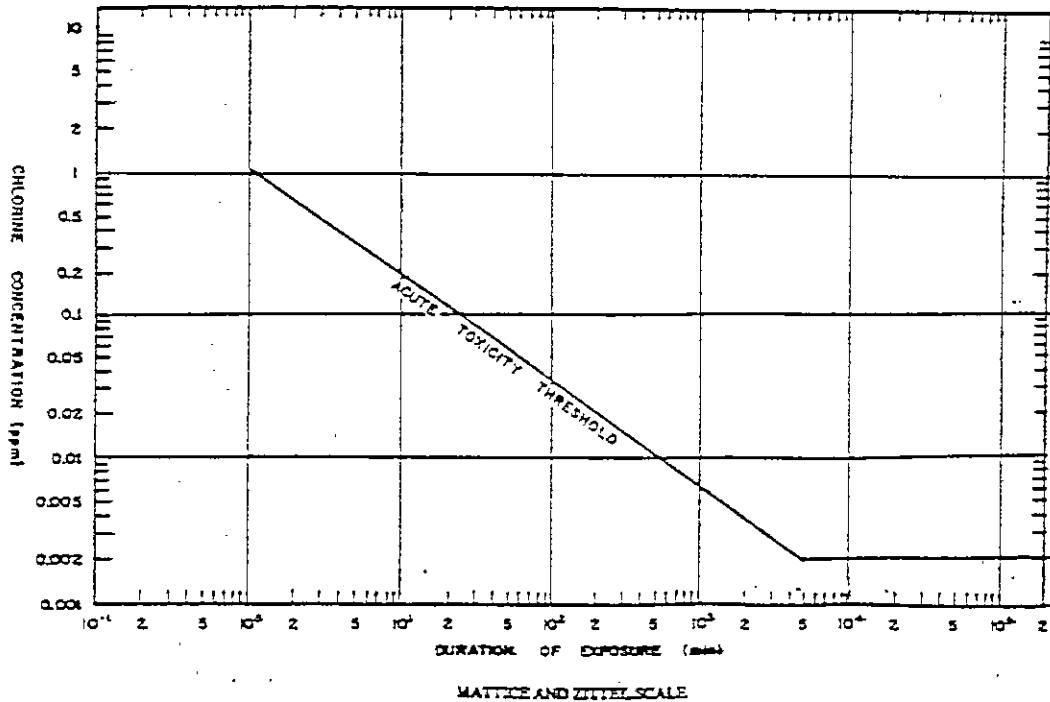
CRITERIA

PARAMETER			UNITS	USE DESIGNATIONS					
				Warmwater D 1,3,4	Troutwater D 2	Recreation A	Public B	All Other Use	
TEMPERATURE:									
Month/Date	Period Average	Inst. Max.							
January 1-31	45°F	50°F	°F						
February 1-29	45	50							
March 1-15	51	56							
March 16-31	54	59							
April 1-15	58	64							
April 16-30	64	69							
May 1-15	68	73							
May 16-31	75	80							
June 1-15	80	85							
June 16-30	83	87							
July 1-30	84	89							
August 1-31	84	89							
September 1-15	84	87							
September 16-30	82	86							
October 1-15	77	82							
October 16-31	72	77							
November 1-30	67	72							
December 1-31	52	57		°F	X	—	—	—	—
.....									
No heated effluents will be discharged in the vicinity of spawning areas.				—	X	X	—	—	—
.....									
The maximum temperatures for cold waters are expressed in the following table.									
Period	Daily Mean	Hourly Max.							
Oct.-April	50	55	°F						
Sept. & May	58	62							
Transition period									
June - Aug.	66	70			—	X	—	—	—

Section 8
 SPECIFIC WATER QUALITY

CRITERIA

PARAMETER	UNITS	USE DESIGNATIONS				
		Wastewater D 1,3,4	Troutwater D 2	Recreation A	Public B	All Other Uses
THRESHOLD ODOR: Not to exceed a threshold odor number of 8 at 104° F as a daily average.	t.c.n.	X	X	X	X	X
TOTAL RESIDUAL CHLORINE: Not to exceed 10 ug/l as measured by the amperometric or equivalent method.	ug/l	10	—	—	—	—
..... No chlorinated discharge allowed.	—	—	X	—	—	—
..... The following chart may be used to derive the criteria instead of the above fixed (10 ug/l) figure:						



Section 8

SPECIFIC WATER QUALITY

CRITERIA

PARAMETER	UNITS	USE DESIGNATIONS																																														
		Wastewater D 1,3,4	Troutwater D 2	Recreation A	Public B	All Other Use																																										
<p>TURBIDITY:</p> <p>No point or non-point source to West Virginia's waters shall contribute a net load of suspended matter such that the turbidity exceeds 10NTU's over background turbidity when the background is 50 NTU's or less, or have more than a 10 percent increase in turbidity (plus 10 NTU minimum) when the background turbidity is more than 50 NTU's.</p> <p>This limitation shall apply to all earth disturbance activities and shall be determined by measuring stream quality directly above and below the area where drainage from such activity enters the affected stream. Any earth disturbance activity continuously or intermittently carried on by the same or associated persons on the same stream or tributary segment shall be allowed a single net loading increase.</p>	NTU's	—	X	—	—	—																																										
<p>.....</p> <p>This regulation shall not apply to those activities at which Best Management Practices in accordance with the State's adopted 208 Water Quality Management Plan are being utilized, maintained and completed on a site specific basis as determined by the appropriate 208 cooperative or an approved Federal or State Surface Mining Permit is in effect. This exemption shall not apply to trout waters.</p>	NTU's	X	—	X	X	—																																										
<p>ZINC:</p> <table border="0"> <tr> <td>Hardness</td> <td>Zinc</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>mg/l as CaCO₃</td> <td>ug/l</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>0-150</td> <td>50</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>151-300</td> <td>100</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>301-400</td> <td>300</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>greater than 401</td> <td>600</td> <td></td> <td></td> <td></td> <td>X</td> <td></td> </tr> </table>	Hardness	Zinc						mg/l as CaCO ₃	ug/l						0-150	50						151-300	100						301-400	300						greater than 401	600				X		ug/l	—	—	—	X	—
Hardness	Zinc																																															
mg/l as CaCO ₃	ug/l																																															
0-150	50																																															
151-300	100																																															
301-400	300																																															
greater than 401	600				X																																											

Section 8
 SPECIFIC WATER QUALITY

CRITERIA

PARAMETER	UNITS	USE DESIGNATIONS				
		Wastewater D 1, 3, 4	Treatment D 2	Recreation A	Public B	All Other Use
ZINC Cont'd. :						
Hardness	Zinc					
<u>mg/l as CaCO₃</u>	<u>ug/l</u>					
0-50	40					
51-80	75					
81-120	90					
121-160	110					
161-200	130					
201-240	150					
241-280	175					
281-300	220					
301-320	270					
321-340	320					
341-400	370					
greater than 401	600	ug/l	X	—	—	—
.....						
Not to exceed 47 ug/l.		ug/l	—	X	—	—

WRB
Adm. Reg. Leg. Rule, 20-5 & 20-5A
Series I, Sec. 8.

NOTE:

Pages 29 to 46 have been delted and are replace by new
pages 30 to 41.

SECTION 8

CHARTS OF SPECIFIC WATER QUALITY STANDARDS

NOTES: X Denotes Applicable Criteria

Total Recoverable - see 40 CFR 136 -
 except Hexavalent Chromium, Mercury & Iron

SPECIFIC CRITERIA	WV WATERS (See Section 7)								
	7.11	7.21	7.32	7.31	7.41	7.51	7.52	7.61	7.71
ALUMINUM: Not to exceed 0.5 mg/l									X
AMMONIA: The concentration of un-ionized ammonia (NH ₃) shall not exceed 50 ug/l. Un-ionized ammonia shall be determined from values of total ammonia-N, pH and temperature according to the following equation: Un-ionized ammonia = 1.2 (total ammonia-N / [1 + 10 ^(pk_a-pH)] where pk _a = 0.092 + 2730/(273.2 + T) and T = Temperature in degrees C	X	X	X	X	X	X	X	X	
..... The concentration of un-ionized ammonia (NH ₃) shall not exceed 20 ug/l									X
ARSENIC: Not to exceed 50 ug/l	X	X	X	X	X	X	X	X	X

SECTION 8

CHARTS OF SPECIFIC WATER QUALITY STANDARDS

NOTES: X Denotes Applicable Criteria
 Total Recoverable - see 40 CFR 136 -
 except Hexavalent Chromium, Mercury & Iron

SPECIFIC CRITERIA	WV WATERS (See Section 7)								
	7.11	7.21	7.22	7.31	7.41	7.51	7.52	7.61	7.71
BARIUM:									
Not to exceed 1.0 mg/l	X	X	X	X	X	X	X	X	X
Water Use Category B1 & C2:									
CADMIUM:									
Hardness mg/l as CaCO ₃									
0-35									
36-75									
76-150									
>151									
Soluble Cadmium (ug/l)									
1									
2									
5									
10									
Not to exceed 10 ug/l	X	X	X	X	X		X	X	
Not to exceed 0.4 ug/l where hardness is less than 75 mg/l as CaCO ₃ and 1.2 ug/l in water where hardness is greater than 75 mg/l as CaCO ₃									X

SECTION 8

CHARTS OF SPECIFIC WATER QUALITY STANDARDS

NOTES: X Denotes Applicable Criteria
 Total Recoverable - see 40 CFR 136 -
 except Hexavalent Chromium, Mercury & Iron

SPECIFIC CRITERIA		WV WATERS (See Section 7)								
		7.11	7.21	7.22	7.31	7.41	7.51	7.52	7.61	7.71
Water Use Category C1:										
CADMIUM:										
Hardness mg/l as CaCO ₃	Total Recoverable Cadmium (ug/l)									
0-25	3									
26-50	6									
51-75	8									
76-100	11									
101-150	17									
151-200	23									
201-300	36	X	X	X	X	X	X	X	X	
301-400	49	X	X	X	X	X	X	X	X	
CHLORIDE:										
Not to exceed 100 mg/l		X	X	X	X			X	X	X
.....										
Not to exceed 150 mg/l				X						
.....										
Not to exceed 250 mg/l							X			
.....										

SECTION 8

CHARTS OF SPECIFIC WATER QUALITY STANDARDS

Notes: X Denotes Applicable Criteria.
 Total Recoverable - see 40 CFR 136 -
 except Hexavalent Chromium, Mercury & Iron

SPECIFIC CRITERIA		WV WATERS (See Section 7)								
		7.11	7.21	7.22	7.31	7.41	7.51	7.52	7.61	7.71
Water Use Category B1:										
COPPER:										
<u>Hardness</u> mg/l as CaCO ₃	<u>Copper Criterion</u> ug/l as Total Copper									
0-50	5									
51-80	10									
81-120	15									
121-160	20									
161-200	25									
201-260	50									
261-280	60									
281-300	75									
301-320	85									
321-340	115									
>341	145	X	X	X	X	X	X	X	X	X
.....										
Water Use Category C1:										
COPPER:										
<u>Hardness</u> mg/l as CaCO ₃	<u>Total Copper</u> (ug/l)									
50	10									
100	20									
200	40									
300	60									
400	80									
500	100									
600	120									
700	140	X	X	X	X	X	X	X	X	X
.....										
Water Use Category C2:										
<u>Hardness</u> mg/l as CaCO ₃	<u>Total Copper</u> (ug/l)									
50	6									
100	11									
200	20									
300	29									
400	38									
500	46									
600	55									
700	63									X

SECTION 8

CHARTS OF SPECIFIC WATER QUALITY STANDARDS

NOTES: X Denotes Applicable Criteria
 Total Recoverable - see 40 CFR 136 -
 except Hexavalent Chromium, Mercury & Iron

SPECIFIC CRITERIA	WV WATERS (See Section 7)								
	7.11	7.21	7.22	7.31	7.41	7.51	7.52	7.61	7.71
CYANIDE (As Free Cyanide HCN + CN ⁻):									
Not to exceed 5 ug/l	X	X	X	X	X	X	X	X	X
DISSOLVED OXYGEN:									
Not less than 5.0 mg/l at any time	X	X		X	X		X	X	
Not less than 4.0 mg/l at any time			X						
Concentration shall average 5.0 mg/l per calendar day and shall not be less than 4.0 mg/l at any time or place outside the mixing zone						X			
Not less than 7.0 mg/l in spawning area and in no case less than 6.0 mg/l at any time									X

SECTION 8

CHARTS OF SPECIFIC WATER QUALITY STANDARDS

Notes: X Denotes Applicable Criteria
 Total Recoverable - see 40 CFR 136 -
 except Hexavalent Chromium, Mercury & Iron

SPECIFIC CRITERIA	WV WATERS (See Section 7)								
	7.11	7.21	7.22	7.31	7.41	7.51	7.52	7.61	7.71
FECAL COLIFORM CONTENT: (Either MPN or MF count) shall not exceed 200 per 100 ml as a 30-day geometric mean based on not less than five (5) samples during any 30-day period nor exceed 400 per 100 ml in more than ten percent (10%) of all samples during any 30-day period	X	X	X	X	X	X	X	X	X
..... FLUORIDE: Not to exceed 1.0 mg/l	X	X	X	X	X	X	X	X	X
..... Water Use Category B1: HEXAVALENT CHROMIUM (Total): Not to exceed 50 ug/l	X	X	X	X	X	X	X	X	X
..... Water Use Category C1: HEXAVALENT CHROMIUM (Total): Not to exceed 50 ug/l	X	X	X	X	X	X	X	X	
..... Water Use Category C2: HEXAVALENT CHROMIUM (Total): Not to exceed 7.2 ug/l									X

SECTION 8
CHARTS OF SPECIFIC WATER QUALITY STANDARDS

Notes: X Denotes Applicable Criteria
Total Recoverable - see 40 CFR 136 -
except Hexavalent Chromium, Mercury & Iron

SPECIFIC CRITERIA	MV WATERS (See Section 7)																																																																																																												
	7.11	7.21	7.22	7.31	7.41	7.51	7.52	7.61	7.71																																																																																																				
<p>• IRON (Total):</p> <p>Not to exceed 1.5 mg/l</p> <p>Effluent limitations which may result in a concentration up to 3.5 mg/l total iron in the stream are allowable upon a demonstration to the chief by the applicant that such concentration will not have an adverse impact upon designated stream uses. This demonstration is subject to EPA approval and must show either: (1) the stream is supporting designated uses while containing total iron concentrations higher than the applicable criteria or (2) the stream does not have an aquatic life use to protect. Notwithstanding Series I, Section 4 of the Board's regulations, this demonstration shall be the only demonstration required before the Chief and the Board with respect to water quality related effluent limitations.</p>	X	X	X	X	X	X	X	X	X																																																																																																				
<p>Not to exceed 0.5 mg/l</p>										X																																																																																																			
<p>Water Use Category E1.</p> <p>LEAD:</p> <table border="0"> <tr> <td><u>Hardness</u> mg/l as CaCO₃</td> <td><u>Lead Criterion</u> ug/l Total Lead</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>0-100</td> <td>25</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>>101</td> <td>50</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </table>	<u>Hardness</u> mg/l as CaCO ₃	<u>Lead Criterion</u> ug/l Total Lead										0-100	25										>101	50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																																																																			
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>101	50	X	X	X	X	X	X	X	X	X																																																																																																			
<p>Water Use Category C1:</p> <p>LEAD:</p> <table border="0"> <tr> <td><u>Hardness</u> mg/l as CaCO₃</td> <td><u>Lead Criterion</u> ug/l Total Lead</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>0-100</td> <td>25</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>>101</td> <td>50</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </table>	<u>Hardness</u> mg/l as CaCO ₃	<u>Lead Criterion</u> ug/l Total Lead										0-100	25										>101	50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																																																																			
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0-100	25																																																																																																												
>101	50	X	X	X	X	X	X	X	X	X																																																																																																			
<p>Water Use Category C2:</p> <table border="0"> <tr> <td><u>Hardness</u> Mg/l as CaCO₃</td> <td><u>Total Lead</u> (ug/l)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>50</td> <td>1.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>100</td> <td>3.8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>200</td> <td>20</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>300</td> <td>50</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>400</td> <td>100</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>500</td> <td>168</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>600</td> <td>258</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>700</td> <td>371</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	<u>Hardness</u> Mg/l as CaCO ₃	<u>Total Lead</u> (ug/l)										50	1.0										100	3.8										200	20										300	50										400	100										500	168										600	258										700	371																			X
<u>Hardness</u> Mg/l as CaCO ₃	<u>Total Lead</u> (ug/l)																																																																																																												
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600	258																																																																																																												
700	371																																																																																																												

SECTION 8

CHARTS OF SPECIFIC WATER QUALITY STANDARDS

Notes: X Denotes Applicable Criteria
Total Recoverable - see 40 CFR 136 -
except Hexavalent Chromium, Mercury & Iron

SPECIFIC CRITERIA	WV WATERS (See Section 7)									
	7.11	7.21	7.22	7.31	7.41	7.51	7.52	7.61	7.71	
MANGANESE:										
Not to exceed 1.0 mg/l	X	X	X	X	X	X	X	X	X	X
Effluent limitations which may result in a concentration up to 2.0 mg/l manganese in the stream are allowable upon a demonstration to the chief by the applicant that such concentration will not have an adverse impact upon designated stream uses. This demonstration is subject to EPA approval and must show either: (1) the stream is supporting designated uses while containing manganese concentrations higher than the applicable criteria, or (2) the stream does not have an aquatic life use to protect. Notwithstanding Series I, Section 4 of the Board's regulations, this demonstration shall be the only demonstration required before the Chief and the Board with respect to water quality related effluent limitations. This exception does not apply to trout waters.										
.....										
MERCURY (Total):										
The total organism body burden of any aquatic species shall not exceed 0.5 microgram/gram as total mercury	X	X	X	X	X	X	X	X	X	X
.....										
The total mercury concentration (unfiltered) in any water sample shall not exceed 0.2 ug/l	X	X	X	X	X	X	X	X	X	X
.....										
NICKEL:										
Not to exceed 50 ug/l										X
.....										
NITRATE (as Nitrate - N):										
Not to exceed 10 mg/l	X	X	X	X	X	X	X	X	X	X
.....										
NITRITE (As Nitrite - N):										
Not to exceed 1.0 mg/l	X	X	X	X	X	X	X	X	X	
.....										
Not to exceed 60 ug/l										X

SECTION 8

CHARTS OF SPECIFIC WATER QUALITY STANDARDS

NOTES: X Denotes Applicable Criteria
 Total Recoverable - see 40 CFR 136 -
 except Hexavalent Chromium, Mercury & Iron

SPECIFIC CRITERIA	WV WATERS (See Section 7)								
	7.11	7.11	7.22	7.31	7.41	7.51	7.52	7.61	7.71
PHENOLIC MATERIALS:									
Not to exceed 5 ug/l	X	X	X	X	X	X	X	X	X
RADIOACTIVITY:									
Gross Beta activity not to exceed 1,000 picocuries per liter (pCi/l), nor shall activity from dissolved strontium-90 exceed 10 pCi/l, nor shall activity from dissolved alpha emitters exceed 3 pCi/l	X	X	X	X	X		X	X	X
Gross total alpha particle activity (including radium-226 but excluding radon and uranium) shall not exceed 15 pCi/l and combined radium-226 and radium-228 shall not exceed 5 pCi/l; provided that the specific determination of radium-226 and radium-228 are not required if dissolved gross particle activity does not exceed 5 pCi/l; the concentration of tritium shall not exceed 20,000 pCi/l; the concentration of total strontium-90 shall not exceed 8 pCi/l						X			

SECTION 8

CHARTS OF SPECIFIC WATER QUALITY STANDARDS

NOTES: X Denotes Applicable Criteria
 Total Recoverable - see 40 CFR 136 -
 except Hexavalent Chromium, Mercury & Iron

SPECIFIC CRITERIA	WV WATERS (See Section 7)								
	7.11	7.21	7.22	7.31	7.41	7.51	7.52	7.61	7.71
SELENIUM:									
Not to exceed 10 ug/l	X	X	X	X	X	X	X	X	X
Water Use Category B1 & C2:									
SILVER:									
<u>Hardness</u> mg/l as CaCO ₃									
<u>Silver Criterion</u> ug/l Total Silver									
0-50									
51-100									
101-200									
>201									
	X	X	X	X	X	X	X	X	X
.....									
Water Use Category C1:									
<u>Water Hardness</u> mg/l as CaCO ₃									
<u>Total Recoverable Silver</u> ug/l									
0-50									
51-100									
101-200									
201-300									
301-400									
401-500									
501-600									
	X	X	X	X	X	X	X	X	X

SECTION 8

CHARTS OF SPECIFIC WATER QUALITY STANDARDS

NOTES: X Denotes Applicable Criteria
Total Recoverable - see 40 CFR 136 -
except Hexavalent Chromium, Mercury & Iron

SPECIFIC CRITERIA	WV WATERS (See Section 7)								
	7.11	7.21	7.22	7.31	7.41	7.51	7.52	7.61	7.71
TEMPERATURE: Temperature rise shall be limited to no more than 5° F above natural temperature, not to exceed 87° F at any time during months of May through November and not to exceed 73° F at any time during the months of December through April	X	X			X		X	X	
..... Temperature rise shall be limited to no more than 5° F above natural temperature, not to exceed 90° F in any case			X						
..... Temperature rise shall be limited to no more than 5° F above natural temperature, not to exceed 81° F at any time during the months of May through November and not to exceed 73° F at any time during December through April				X					

SECTION 8

CHARTS OF SPECIFIC WATER QUALITY STANDARDS

NOTES: X Denotes Applicable Criteria
 Total Recoverable - see 40 CFR 136 -
 except Hexavalent Chromium, Mercury & Iron

SPECIFIC CRITERIA	WV WATERS (See Section 7)																																
	7.11	7.21	7.22	7.31	7.41	7.51	7.52	7.61	7.71																								
<p>TEMPERATURE (continued)</p> <p>Temperature rise shall be limited to no more than 5°F above natural temperature. Allowable maximums are:</p> <table border="0"> <tr> <td>Jan.</td> <td>50</td> <td>July</td> <td>89</td> </tr> <tr> <td>Feb.</td> <td>50</td> <td>Aug.</td> <td>89</td> </tr> <tr> <td>March</td> <td>60</td> <td>Sept.</td> <td>87</td> </tr> <tr> <td>April</td> <td>70</td> <td>Oct.</td> <td>78</td> </tr> <tr> <td>May</td> <td>80</td> <td>Nov.</td> <td>70</td> </tr> <tr> <td>June</td> <td>87</td> <td>Dec.</td> <td>57</td> </tr> </table> <p>Water temperature shall not exceed the maximum limits in the above table during more than 1% of the hours in the 12 month period ending with any month; at no time shall the water temperature at such location exceed the maximum limits in the table by more than 3°F</p> <p>.....</p> <p>No heated effluents will be discharged in the vicinity of spawning areas. During any month of the year, heat should not be added to a stream in excess of the amount that will raise the temperature of the water more than 5°F above natural temperature. In lakes and reservoirs, the temperature of the epilimnion should not be raised more</p>	Jan.	50	July	89	Feb.	50	Aug.	89	March	60	Sept.	87	April	70	Oct.	78	May	80	Nov.	70	June	87	Dec.	57						X			
Jan.	50	July	89																														
Feb.	50	Aug.	89																														
March	60	Sept.	87																														
April	70	Oct.	78																														
May	80	Nov.	70																														
June	87	Dec.	57																														

SECTION 8

CHARTS OF SPECIFIC WATER QUALITY STANDARDS

NOTES: X Denotes Applicable Criteria
 Total Recoverable - see ~~CEK 136~~ -
 except Hexavalent Chromium, Mercury & Iron

SPECIFIC CRITERIA	WV WATERS (See Section 7)																							
	7.11	7.21	7.22	7.31	7.41	7.51	7.52	7.61	7.71															
TEMPERATURE (continued) than 3°F by the addition of heat of artificial origin. The normal daily and seasonable temperature fluctuations that existed before the addition of heat due to other than natural causes should be maintained. The maximum temperatures for cold waters are expressed in the following table: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>Daily Mean °F</th> <th>Hourly Maximum °F</th> </tr> </thead> <tbody> <tr> <td>Oct. - April</td> <td>50</td> <td>55</td> </tr> <tr> <td>Sept. - May</td> <td>58</td> <td>62</td> </tr> <tr> <td>Transition Period</td> <td></td> <td></td> </tr> <tr> <td>June - August</td> <td>66</td> <td>70</td> </tr> </tbody> </table>		Daily Mean °F	Hourly Maximum °F	Oct. - April	50	55	Sept. - May	58	62	Transition Period			June - August	66	70									X
	Daily Mean °F	Hourly Maximum °F																						
Oct. - April	50	55																						
Sept. - May	58	62																						
Transition Period																								
June - August	66	70																						
THRESHOLD ODOR: Not to exceed a threshold odor number of 8 at 104°F as a daily average	X	X	X	X	X	X	X	X	X															
TOTAL RESIDUAL CHLORINE: Not to exceed 10 ug/ as measured by the amperometric or equivalent method	X	X	X	X	X	X	X	X																
No chlorinated discharges allowed									X															

SECTION 8

CHARTS OF SPECIFIC WATER QUALITY STANDARDS

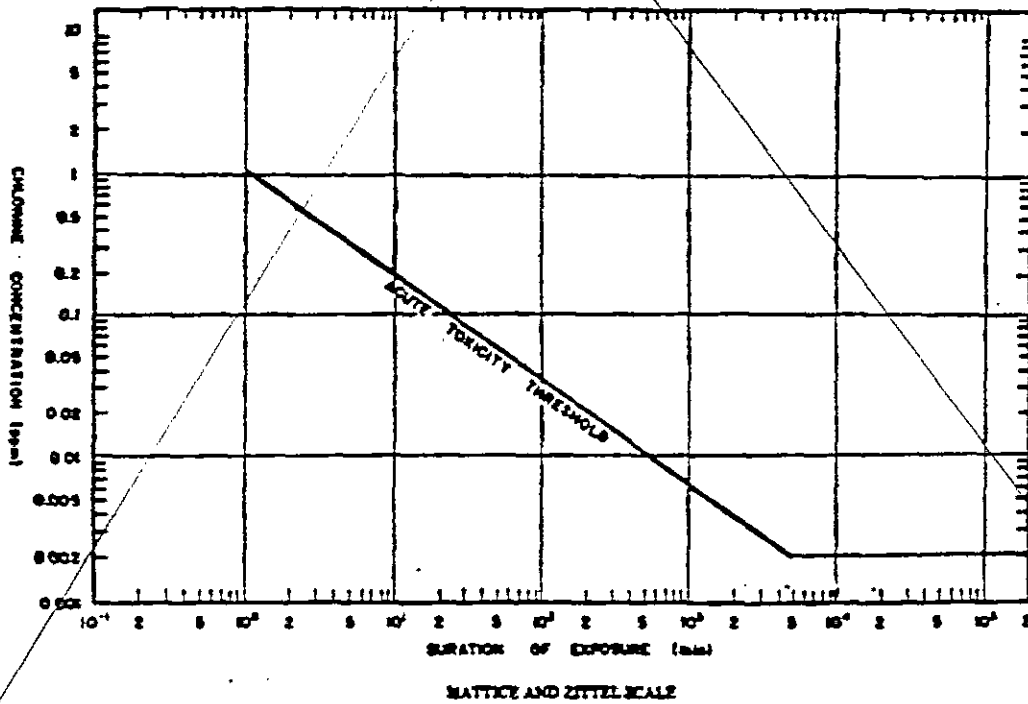
NOTES: X Denotes Applicable Criteria
 Total Recoverable - see 40 CFR 136 -
 except Hexavalent Chromium, Mercury & Iron

SPECIFIC CRITERIA

WV WATERS (See Section 7)

	7.11	7.21	7.22	7.31	7.41	7.51	7.52	7.61	7.71
TOTAL RESIDUAL CHLORINE (continued):									

The following chart may be used to derive the criteria instead of the above fixed criteria:



SECTION 8

CHARTS OF SPECIFIC WATER QUALITY STANDARDS

NOTES: X Denotes Applicable Criteria
 Total Recoverable - see 40 CFR 136 -
 except Hexavalent Chromium, Mercury & Iron

SPECIFIC CRITERIA	WV WATERS (See Section 7)								
	7.11	7.21	7.22	7.31	7.41	7.51	7.52	7.61	7.71
<p>TURBIDITY:</p> <p>No point or non-point source to West Virginia's waters shall contribute a net load of suspended matter such that the turbidity exceeds 10 NTU over background turbidity when the background is 50 NTU or less, or have more than a 10 percent increase in turbidity (plus 10 NTU minimum) when the background turbidity is more than 50 NTU.</p> <p>This limitation shall apply to all earth disturbance activities and shall be determined by measuring stream quality directly above and below the area where drainage from such activity enters the affected stream. Any earth disturbance activity continuously or intermittently carried on by the same or associated persons on the same stream or tributary segment shall be allowed a single net loading increase</p> <p>.....</p> <p>This regulation shall not apply to those activities at which Best Management Practices in accordance with the State's adopted 208 Water Quality Management Plan are being utilized, maintained and completed on a site</p>									X

SECTION 8

CHARTS OF SPECIFIC WATER QUALITY STANDARDS

Notes: X Denotes Applicable Criteria
 Total Recoverable - see 40 CFR 136 -
 except Hexavalent Chromium, Mercury & Iron

SPECIFIC CRITERIA	WV WATERS (See Section 7)								
	7.11	7.21	7.22	7.31	7.41	7.51	7.52	7.61	7.71
TURBIDITY (continued)									
specific basis as determined by the appropriate 208 cooperative or an approved Federal or State Surface Mining Permit is in effect. This exemption shall not apply to trout waters.	x	x	x	x	x	x	x	x	x
.....									
Water Use Category B1.									
ZINC:									
<u>Hardness</u> mg/l as CaCO ₃									
0-150									
151-300									
301-400									
>401	x	x	x	x	x	x	x	x	x
<u>Zinc Criterion</u> ug/l Total Zinc									
50									
100									
300									
600	x	x	x	x	x	x	x	x	x
.....									

SECTION 8

CHARTS OF SPECIFIC WATER QUALITY STANDARDS

Notes: X Denotes Applicable Criteria
 Total Recoverable - see 40 CFR 136 -
 except Hexavalent Chromium, Mercury & Iron

SPECIFIC CRITERIA		WY WATERS (See Section 7)								
		7.11	7.21	7.22	7.31	7.41	7.51	7.52	7.61	7.71
Water Use Category C1:										
ZINC:										
<u>Hardness</u> mg/l as CaCO ₃	<u>Zinc Criterion</u> ug/l Total Zinc									
0-50	40									
51-80	75									
81-120	90									
121-160	110									
161-200	130									
201-240	150									
241-280	175									
281-300	220									
301-320	270									
321-340	320									
341-400	370									
>401	600	x	x	x	x	x	x	x	x	
.....										
<u>Zinc</u>										
Water Use Category C2:										
	<u>Total Zinc - ug/l</u>									
For All Streams	47									x

WRB

~~Adm. Reg. Leg. Rule, 20-5 & 20-5A~~
Series I, Sec. 9

or Standard Method of Test for ASTM D1345-59 (Reapproved 1970) and published in the 1975 Annual Book of ASTM Standards - Part 31 - Water; or EPA Environmental Monitoring Series Publication, EPA-600/4-78-012, Methods for Measuring the Acute Toxicity of Effluents to Aquatic (600/4-85-013) Freshwater and Marine Organisms (January-1978) (3rd Edition February 1985). Test waters shall be reconstituted according to recommendations and methodologies specified in the previously cited references or methodologies approved in writing by the Chief.

APPENDIX A

The primary purpose of this section is to identify certain important trout waters. Therefore, this list of trout waters includes, but is not limited to the following streams, stream sections, lakes, reservoirs and ponds.

<u>Stream</u>	<u>County</u>	<u>Major Basin</u>
Abes Run	Pocahontas	OKNG
Anglins Creek	Nicholas	OKNG
Anthony Creek (above Big Draft)	Greenbrier	OKNG
Back Fork Elk River	Webster	OKE
Beaver Creek	Pocahontas	OKNG
Big Bullskin Run	Jefferson	PS
Big Clear Creek	Greenbrier	OKG
Big Run	Pendleton	PSB
Big Run	Randolph	OKE
Blackwater River (above Davis)	Tucker	MC
Blaney Hollow	Monongalia	MC
Brushy Fork (above Valley Furnace)	Barbour	MT
Buckhannon River (above Beans Mill)	Upshur	MT
Buffalo Creek	Preston	MC
Camp Branch	Hardy	PC
Camp Creek	Mercer	OKNB
Camp Five Run	Randolph	MC
Cattail Run	Jefferson	PS
Cherry River	Nicholas	OKG
Clover Run	Tucker	MC
Cold Stream	Hampshire	PC
Cranberry River	Pocahontas, Webster, Nicholas	OKG
Culverson Creek	Greenbrier	OKNG
Deer Creek	Nicholas	OKG
Desert Fork	Webster	OKE
Dillons Run	Hampshire	PC
Dry Fork (above Canebrake)	McDowell	OBST
Dry Fork (above Otter Creek)	Randolph, Tucker	MC
Dumpling Run	Hardy	PSB
Dunloup Creek (downstream from Harvey Sewage Treat- ment Plant)	Fayette	KN

WRB

Adm.-Reg. Leg. Rule, 20-5 & 20-5A
Series I, Appendix A

East Fork Glady Fork (above C & P Compressor Station)	Randolph	MC
East Fork, Greenbrier River	Pocahontas	OKNG
East River (above Kellysville)	Mercer	OKN
Edwards Run and Pond	Hampshire	PC
Elklick Run	Tucker	MC
Elk River (above Webster Springs)	Pocahontas, Webster, Randolph	OK
Elkwater Fork	Randolph	MT
Elsey Run	Preston	MC
Evitts Run (above Rt. 340)	Jefferson	PS
Fall Run	Webster	OKE
Five Mile Run	Pocahontas	OKNG
Flowing Springs Run (above Halltown)	Jefferson	PS
Gandy Creek (above Whitmer)	Randolph	MC
Gauley River (above Moust Coal Tipple)	Randolph, Webster	OK
Glade Creek	Fayette	OKG
Glade Creek	Raleigh	OKN
Glady Fork	Randolph	MC
Greenbrier River (above Hosterman)	Pocahontas	OKN
Hartland Run	Berkeley	P
Hills Creek	Pocahontas	OKNG
Horseshoe Run	Tucker	MC
Knapps Creek	Pocahontas	OKNG
Laurel Creek (above Cotton Hill)	Fayette	OKG
Laurel Creek	Greenbrier, Nicholas	OKG
Laurel Creek	Monroe	OKNG
Laurel Foprk	Pendleton	PSB
Laurel Fork	Randolph	MC
Laurel Fork	Webster	OKE
Laurel Run	Greenbrier	OKNG
Laurel Run	Pocahontas	OKE
Laurel Run	Preston	MC
Left Fork Right Fork Buckhannon River	Upshur	MTB
Left Fork Holly River	Webster	OKE
Left Fork Buckhannon River	Randolph,Upshur	MTB
Left Fork Right Fork Little Kanawha River	Upshur	OLK
Little Clear Creek & Laurel Run Tributary	Greenbrier	OKG
Little Fork	Pendleton	PSB
Little Kanawha River (above Wildcat)	Upshur,Lewis	O
Little River (East Fork)	Pocahontas	OKNG
Little River (West Fork)	Pocahontas	OKNG
Long Marsh Run	Jefferson	PS
Lost River	Hardy	PC

Lower Cove Run	Hardy	PC
Marsh Fork (above Sundial)	Raleigh	OKNB
Mash Fork	Mercer	OKNB
Maxwell Run	Tucker	MC
Meadow Branch	Morgan	P
Meadow Creek	Greenbrier	OKG
Meadow Creek	Summers	OKN
Middle Creek (above Route 30 Bridge)	Berkeley	P
Middle Fork River (above Cassity)	Randolph	MT
Mill Creek (above Markwood)	Mineral	PNB
Mill Creek	Fayette	OKN
Mill Creek	Berkeley	P
Mill Creek	Hampshire	PSB
Mill Creek (above Mill Creek)	Randolph	MT
Mill Run	Barbour	MT
Mill Run	Berkeley	P
Mill Run	Hampshire	PSB
Milligan Creek	Greenbrier	OKNG
Moore's Run	Hardy	PC
Morgan Run	Monongalia	MC
Mullenax Run	Pocahontas	OKNG
New Creek	Mineral	PNB
North River (above Rio)	Hardy	PC
North Fork Anthony Creek	Greenbrier	OKNG
North Fork Cherry River	Greenbrier, Nicholas	OKG
North Fork Deer Creek (above Route 28/5)	Pocahontas	OKNG
North Fork Lunice Creek	Grant	PSB
North Fork Patterson Creek	Grant	PNB
North Fork South Branch	Pendleton, Grant	PSB
Opequon Creek	Berkeley, Jefferson	P
Pigeon Creek	Mercer	OKN
Pinch Creek	Raleigh	OKN
Pinnacle Creek	Wyoming	OG
Red Creek	Tucker	MC
Rhine Creek	Preston	MY
Rich Creek	Monroe	OKN
Right Fork Buckhannon River	Upshur, Randolph	MTB
Right Fork Little Kanawha River	Webster, upshur	OLK
Right Fork Middle Fork River	Upshur	MT
Roaring Creek (above little Lick Branch)	Preston	MT
Rocky Marsh Run	Jefferson	P
Saltlick Creek	Preston	MC
Second Creek (Rt. 219 Bridge to Nickell's Mill)	Greenbrier, Monroe	OKNG
Seneca Creek	Pendleton	PSB

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Shavers Fork (above Little Black Fork)	Pocahontas, Randolph	MC
Sitlington Creek	Pocahontas	OKNG
Slip Hill Mill Run	Tucker	MC
South Branch (above North Fork)	Pendleton	PSB
South Fork Cherry River	Greenbrier, Nicholas	OKG
South Fork Cranberry River	Pocahontas	OKGC
South Fork Lunice Creek	Grant	PSB
South Fork Potts Creek	Monroe	J
South Mill Creek (above Hiser)	Grant	PSB
Spring Creek	Greenbrier	OKNG
Spring Run	Grant	PSB
Stoney Creek	Pocahontas	OKNG
Sugar Creek	Webster	OKE
Summersville Lake (Tailwaters) (above Collison Creek)	Nicholas	OK
Sutton Lake (Tailwaters) (above Route 38/5 Bridge)	Braxton	OK
Swago Creek	Pocahontas	OKNG
Tea Creek	Pocahontas	OKGW
Three Spring Run	Randolph	MC
Tilhance Creek	Berkeley	P
Town Run	Jefferson	P
Trout Run	Hardy	PC
Turkey Creek	Monroe	OKN
Tuscarora Creek (above Martinsburg)	Berkeley	P
Tygart River (above Huttonsville)	Randolph	M
Tygart Tailwaters (above Route 119 Bridge)	Taylor	M
Waites Run	Hardy	PC
West Fork Greenbrier River	Pocahontas	OKNG
Whiteday Creek (above Smithtown)	Marion, Monongalia	M
Williams River (above Dyer)	Pocahontas, Webster	OKG
Wolf Creek	Fayette	OKN
Wolf Creek	Preston	MC
Wolfpen Creek	Fayette	OKG

Lakes and Ponds

Buffalo Fork
Coopers Rock
Dog Run
Edwards Run
Fort Ashby
French Creek
Hawse Run

County

Pocahontas
Monongalia
Harrison
Hampshire
Mineral
Upshur
Pendleton

Major Basin

OKNG
MC
MW
PC
PNB
MTB
PSB

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New Creek Dam 14
Seneca
Spruce Knob
Stephens
Stonecoal
Summersville Reservoir
Summit
Sutton Reservoir
Teter Creek
Thomas Park
Trout Pond
Warden

Grant
Pocahontas
Randolph
Raleigh
Lewis
Nicholas
Greenbrier
Braxton
Barbour
Tucker
Hardy
Hardy

PNB
OKNG
MC
OKC
MW
OK
OKG
OKE
MT
MC
PC
PC

MAJOR STREAM BASIN WATER USE CATEGORIES

	Water Use Categories										
	A-1	A-2	B	C-1	D-1	D-2	D-3	D-4	E-1	E-2	E-3
James River J		X		X	X	X	X	X			
Potomac River P		X	X	X	X	X	X	X			X
PS		X	X	X	X	X	X	X			X
PC		X	X	X	X	X	X	X			X
PSB		X	X	X	X	X	X	X			X
PNB	X	X	X	X	X	X	X	X			X
Monongahela River M		X	X	X	X	X	X	X	X	X	X
MC	X	X	X	X	X	X	X	X		X	X
MCB		X	X	X	X	X	X	X			X
MW	X	X	X	X	X	X	X	X		X	X
MT	X	X	X	X	X	X	X	X			X
MTB		X	X	X	X	X	X	X			X
MTM		X		X	X		X	X			X
MY		X		X	X	X	X	X			X
Ohio River O-1		X	X	X	X				X	X	X
O-2	X	X	X	X	X		X	X			X
OLK	X	X	X	X	X	X		X			X
OLKH		X	X	X	X		X	X			X
OK		X	X	X	X		X	X	X	X	X
OKP		X	X	X	X		X	X		X	X
OKC		X	X	X	X		X	X			X
OKE		X	X	X	X	X		X	X		X
OKG	X	X	X	X	X	X		X	X		X
OKGM		X		X	X	X		X			X
OKGCH		X	X	X	X	X		X			X
OKGCR		X		X	X	X		X			X
OKGW		X		X	X	X		X			X
OKN		X	X	X	X	X		X			X
OKNG		X		X	X	X		X			X
OKN-60	X			X	X	X		X			X
OKNB		X		X	X	X		X			X
OKNE		X		X	X	X		X			X
OG		X	X	X	X		X	X			X
OGM		X	X	X	X		X	X			X
OBS		X		X	X		X	X			X
OBST	X	X	X	X	X	X		X			X

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WATER SUPPLY PUBLIC

This listing includes all public water supplies which use surface water as their source of supply and which have been identified by the Department of Health as of March 1982 as serving at least 15 service connections or an average of 25 to more permanent residents on a year-round basis.

<u>Name of Supply</u>	<u>Source of Supply</u>
<u>BARBOUR COUNTY</u>	
Belington Water Works	Tygart Val. Riv. Imp.
Philippi Water	Tygart Valley River
<u>BOONE COUNTY</u>	
Coal River PSD	Big Coal River
Van PSD	West Fork
WV Water-Madison Dist.	Pond Fork
Whitesville Water	Big Coal River
<u>BRAXTON COUNTY</u>	
Flatwoods Canoe Run PSD	Elk River
Bursville Water Works	Little Kanawha River
Sugar Creek PSD	Elk River
WV Water-Gassaway District	Elk River
WV Water-Sutton District	Elk River
<u>CABELL COUNTY</u>	
Huntington Water Corp.	Ohio River
Milton Water Works	Mud River
Salt Rock PSD	Guyandotte River
<u>CALHOUN COUNTY</u>	
Grantsville Municipal Water	Little Kanawha River

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CLAY COUNTY

Clay Water Works

Elk River

DODDRIDGE COUNTY

West Union Municipal Water

Middle Island Creek

FAYETTE COUNTY

Ames Heights Water

Mill Creek

Ansted Municipal Water

Mill Creek

Armstrong PSD Po-Ki-Co-El

Powell Cr., Kanawha River

Community Water

Kanawha River

Deepwater PSD

Kanawha River

Fayetteville Water

Wolfe Creek Reservoir

Kanawha Falls PSD

Glen Ferris

Kanawha River

Boomer

Kanawha River

Charlton Heights

Kanawha River

WV Water Co.-Montgomery Div.

kanawha River

GILMER COUNTY

Glenville Utility

Little Kanawha River

GRANT COUNTY

Petersburg Municipal Water

S. Br. Potomac River

Mountain Top PSD

Springs - occasionally
use Mill Run

GREENBRIER COUNTY

Alderson Water Dept.

Greenbrier River

Lewisburg Water

Greenbrier River

Ronceverte Water

Greenbrier River

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HAMPSHIRE COUNTY

Romney Water

S. Branch Potomac River

HANCOCK COUNTY

Chester Water & Sewer

Ohio River

HARDY COUNTY

Moorfield Municipal Water

S. Fork River

HARRISON COUNTY

Bridgeport Municipal Water
Clarksburg Water Bd.
Lumberport Water
Salem Water Bd.
Shinnston Water Dept.
West Milford Water

Deecans, Hinkle Imp.
West Fork River
Jones Run Imp.
Dog Run Imp.
Tygart Valley River
West Fork River

JACKSON COUNTY

Ripley Water

Mill Creek

JEFFERSON COUNTY

Charles Town Water
Shepherdstown Water

Evitt's Run
Potomac River

KANAWHA COUNTY

Cedar Grove Water
Clendenin Water
WV Water-Kanawha Valley Dist.
Pinch PSD
Pratt Water
Sissonville PSD
St. Albans Water
Washington PSD

Kanawha River
Elk River
Elk River
Elk River
Kanawha River
Pocatalico River
Coal River
Coal River

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LEWIS COUNTY

Jane Lew Water Commission
WV Water-Weston District
Weston State Hospital

Hackers Creek
West Fork River
West Fork River

LINCOLN COUNTY

West Hamlin Water
Lincoln PSD

Guyandotte River
Coal River

LOGAN COUNTY

Logan PSD-Whitman
Logan Water Board
Man Water Works, Inc.

Whitman Creek
Guyandotte River
Guyandotte River

MCDOWELL COUNTY

City of Welch Water

Impoundment

MARION COUNTY

Fairmont Water Comm.
Four States Water
Monongah Water Works

Tygart Valley River
Impoundment
Tygart Valley River

MARSHALL COUNTY

Cameron Water

Impoundment

MINERAL COUNTY

Keyser Water
Piedmont Municipal Water

New Creek
Savage River

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MINGO COUNTY

Gilbert Water
Kermit Water
Matewan Water
Williamson Water

Guyandotte River
Tug Fork
Tug Fork
Tug Fork

MONONGALIA COUNTY

Cheat Neck PSD
Lakeview Country Club Water
Morgantown Water Comm.

Cheat Lake
Cheat Lake
Monongalia River

NICHOLAS COUNTY

Craigsville PSD
Nettie-leivasy PSD
Richwood Water
Summersville Water
Wilderness PSD

Gauley River
Impoundment Jim Br.
N. Fork Cherry River
Muddlety Creek
Anglins Creek

OHIO COUNTY

Wheeling Water

Ohio River

PENDLETON COUNTY

U.S. Naval Radio Station

South Fork River

POCAHONTAS COUNTY

City of Marlinton Water
Denmar State hospital Water
Snowshoe Company Water
Upper Greenbrier PSD

Knapp Creek
Greenbrier River
Shavers Fork
Spring, Greenbrier River

WRB

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Series I, Appendix B

PRESTON COUNTY

Kingwood Water
Masontown Water
Preston County PSD # 1
Rowlesburg Water

Dam, Creek, Cheat River
Impoundment
Deckers Creek
Cheat River, Keyser Run

PUTMAN COUNTY

Buffalo Water
Hurricane Municipal Water
Lake Washington PSD
South Putnam PSD
Winfield Water

Cross Creek
Impoundments-WV Water
Lake Washington
Impoundment
Impoundment, S. Put.

RALEIGH COUNTY

Beckley Water
Armco Steel-Montc. Stickney

Glade Creek Reservoir
Coal River

RANDOLPH COUNTY

Beverly Water
Elkins Municipal Water
Huttonsville Med. Sec. Prison
Mill Creek Water
Valley Water

Tygart Valley River
Tygart Valley River
Tygart Valley River
Mill Creek
Tygart Valley River

RITCHIE COUNTY

Cario Water
Harrisville Water
Pennsboro Water

North Fork Hughes River
North Fork Hughes River
North Fork Hughes River

ROANE COUNTY

Walton PSD

Silcott Fork Dam

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SUMMERS COUNTY

WV Water-Hinton
WV State Prison for Women
Big Bend PSD

Greenbrier River
Greenbrier River
Greenbrier River

TAYLOR COUNTY

Grafton Water

Tygart Valley River

TUCKER COUNTY

Davis Water
Hamrick PSD
Parsons Water
Canaan Valley State Park

Blackfork River
Dry Fork
Shavers Fork, Elklick
Blackfork River

TYLER COUNTY

Middlebourne Water
Sistersville Municipal Water

Middle Island Creek
Ohio River

UPSHUR COUNTY

Buckhannon Water Board

Buckhannon River

WAYNE COUNTY

Fort Gay Water
Wayne Municipal Water
Kenova Municipal Water

Big Sandy
Twelve Pole Creek
Big Sandy River

WEBSTER COUNTY

Cowen PSD
WV Water-Webster Springs

Gauley River
Elk River

WETZEL COUNTY

Pine Grove Water

N. Fork Fishing Creek

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WOOD COUNTY

Claywood Park PSD

Little Kanawha River

WYOMING COUNTY

Mullens Water Works
 Mullens
Oceana Water
Pineville Water

Slab Fork Creek
Laurel Fork
Pinnacle Creek

WRB

~~Adm. Reg.~~ Leg. Rule, 20-5 & 20-5A
Series I, Appendix C

APPENDIX C

POWER GENERATING FACILITIES IN WEST VIRGINIA

<u>Station Name</u>	<u>Operating Company</u>	<u>Receiving Stream</u>
Kammer	Ohio Power	Ohio River
Mitchell	Ohio Power	Ohio River
Pleasants Station	Monongahela Power	Ohio River
Willow Island Station	Monongahela Power	Ohio River
Phillip Sporn Plant	Central Operating Company (APC)	Ohio River
Mountaineer	Appalachian Power Company	Ohio River
Winfield (Hydro)	Appalachian Power Company	Kanawha River
Marmet (Hydro)	Appalachian Power Company	Kanawha River
London (Hydro)		Kanawha River
Albright Station	Monongahela Power	Cheat River
Fort Martin Station	Monongahela Power	Monongahela River
Rivesville Station	Monongahela Power	Monongahela River
Harrison Station	Monongahela Power	West Fork River

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<u>-Stream---</u>	<u>-County--</u>
-Pigeon-Creek-	-Mercer---
-Pine-Creek-	-Raleigh-
-Pinnacle-Creek-	-Wyoming--
-Red-Creek	-Fucker-
-Rhine-Creek--	-Preston--
-Rich-Creek--	-Monroe---
-Right-Fork-Buckhannon-River--	-Upshur, Randolph--
-Right-Fork-Little-Kanawha-River--	-Webster, Upshur--
-Right-Fork-Middle-Fork-River--Upshur-	
-Roaring-Creek-(above-Little-Lick-- -Branch)--	-Preston-
-Rocky-Massh-Run-	-Jefferson--
-Saltsick-Creek--	-Preston---
-Second-Creek-(Rt., 219-Bridge-to- -Nickell's-Mill)--	
-Seneca-Creek-	-Greenbrier, Monroe-
-Shavers-Fork-(above-Little-Black-Fork)	-Pendleton---
-Stirlington-Creek--	-Pocahontas, Randolph-
-Strip-Hill-Mill-Run-	-Pocahontas-
-South-Branch-(above-North-Fork)	-Fucker-
-South-Fork-Cherry-River--	-Pendleton-
-South-Fork-Cranberry-River--	-Greenbrier, Nicholas-
-South-Fork-Lunice-Creek--	-Pocahontas-
-South-Fork-Potts-Creek--	-Grant--
-South-Mill-Creek-(above-Hiser)--	-Monroe--
	-Grant---

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7.2 MAJOR RIVER BASINS AND THEIR ALPHANUMERIC SYSTEM

7.2.1 J - James River Basin

All tributaries to the West Virginia-Virginia State line.

7.2.2 P - Potomac River Basin

All tributaries of the main stem of the Potomac River to the West Virginia-maryland-Virginia State line to the confluence of the North Branch and the South Branch of the Potomac River and all tributaries arising in West Virginia excluding the following major tributaries which are designated as follows:

7.2.2.1 PS - Shenandoah River and all its tributaries arising in West Virginia to the West Virginia-Virginia State line

7.2.2.2 PC - Cacapon River and all its tributaries

7.2.2.3 PSB - South Branch and all its tributaries

7.2.2.4 PNB - North Branch

All tributaries to the North Branch arising in West Virginia.

Exceptions: to 7.2.2

(a) Except for the unnamed tributary of the South Branch of Buzzard Run above and below Prather Pond shall not have the use of B; therefore may contain chlorides not to exceed 250 mg/l.

(b) Except for Turkey Run a small tributary of Opequon Creek (P-4) of the Potomac River shall not have use B; and therefore may contain fluoride not to exceed 8 mg/l, ammonia not to exceed 4 mg/l, chlorides not to exceed 530 mg/l, cyanide (as free cyanide HCN + CN) not to exceed 50 ug/l and hexavalent chromium (total) not to exceed 100 ug/l.

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Series I, Sec. 7.2.3.4

Exception to: 7.2.3.4

Water Use Categories B2, B3, and D are excluded from the tributaries of the Youghiogheny River in West Virginia which flow into Maryland.

7.2.4 O - Ohio River Basin

The Ohio River and all its tributaries to the West Virginia-Ohio-Pennsylvania State lines excluding the following major tributaries which are designated as follows:

7.2.4.2 O1 - Ohio River - main stem. The main stem of the Ohio River from the Ohio-Pennsylvania-West Virginia State line to the Ohio-Kentucky-West Virginia State line

7.2.4.2 O2 - Ohio River - tributaries. All tributaries of the Ohio River excluding the following major tributaries:

Exceptions: to 7.2.4.2

(a) Except the stretch of Conners Run (O-77-A) (a tributary of Fish Creek), shall not have the use B1; therefore may contain arsenic not to exceed 200 ug/l and selenium not to exceed 62 ug/l.

(b) ~~Reserved~~ - Except for that segment of Harmon Creek (O-97) from its confluence with the Ohio River to a point 2.2 miles upstream shall have the use category designation D4. Therefore, at any time the temperature shall not exceed 100 °F, total iron shall not exceed 4.0 mg/l and total fluoride shall not exceed 2.0 mg/l, each as thirty day average values.

(c) ~~Reserved~~ - Except in the stretch of Cow Creek (O-55) from its mouth to a point approximately 2,300 feet upstream, the water use Category B shall not apply.

7.2.5 LK- Little Kanawha River

The Little Kanawha River and all its tributaries excluding the following major tributary which is designated as follows:

7.2.5.1 LKH - Hughes River and all its tributaries

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7.2.8 KN - New River

The New River from its confluence with the Gauley River to the Virginia-West Virginia State line and all tributaries excluding the following major tributaries which are designated as follows:

7.2.8.1 KNG - Greenbrier River and all its tributaries

7.2.8.2 KNB - Bluestone River and all its tributaries

7.2.8.3 KNE - East River and all its tributaries

7.2.8.4 KN-60 Bluestone lake

Exception: to 7.2.8

~~Reserved~~ - Except the stretch of Laurel Creek (KN-5) (a tributary of the New River) from the confluence of Dempsey Branch and Laurel Creek to a point 1.7 miles below, where the specific criterion for iron shall be 3.0 mg/l total iron, and from that point to the confluence of Laurel Creek and the New River, the specific criterion for iron shall be 1.0 mg/l total iron.

Exception: to 7.2.8.1

Water Use Category B and D2 shall not apply to that segment of the East Fork of the Greenbrier River from the reservoir located at the tannery to the confluence with the West Fork. That segment of the East Fork therefore may contain chlorides not to exceed 1,500 mg/l maximum daily average.

Exception: to 7.2.8.4

Water Use Categories B2 and D are deleted in Bluestone Lake and temperature rise shall be limited to no more than 3°F above natural not to exceed 81°F at any time during the months of May through November and not to exceed 73°F at any time during December through April in Bluestone lake.

7.2.9 OG - Guyandotte River

The Guyandotte River and all its tributaries excluding the following major tributary which is designated as follows:

7.2.9.1 OGM - Mud River and all its tributaries

7.2.10 BS - Big Sandy River

The Big Sandy River and all its tributaries arising in West Virginia and to the Kentucky-Virginia-West Virginia State

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Series I, Sec. 7.2.8

lines excluding the following major tributary which is designated as follows:

7.2.10.1 BST - Tug Fork and all its tributaries

7.2.11 Trout Waters (See Appendix A)

7.2.12 Water Supply, Public (See Appendix B)