

# DEP drops plan to finalize stream list

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State regulators have dropped their plan to finalize a list of protected West Virginia streams, saying they don't want to pick a fight with lawmakers over the issue.

Earlier this year, the Legislature declined to act on the list of more than 300 streams the state Department of Environmental Protection said deserved tougher pollution protections.

DEP Secretary Stephanie Timmermeyer said she planned to finalize the list anyway. Timmermeyer said the DEP had the legal authority to do so.

On Friday, Deputy DEP Secretary Randy Huffman said the agency now plans to start all over.

A new list will be published in draft form. The DEP will accept public comments and then finalize the list. The resulting version will be submitted for legislative review during the 2008 session.

"It was maybe a subversion of the leg-

islative process for us to just go out and file the rule," Huffman said. "It's a legislative process whether you agree or not."

The list in question covers streams that are deemed to qualify for "Tier 2.5" protection under West Virginia's water quality anti-degradation policy.

Under that policy, clean streams are generally supposed to be kept that way. Streams on the Tier 2.5 list could not be degraded by more than 10 percent.

DEP officials had already whittled down the Tier 2.5 list and allowed three separate rounds of public comments. But lawmakers, at the urging of coal companies, timber operators and the Farm Bureau, were slashing dozens of streams from the list.

Originally, the DEP proposed Tier 2.5 protection for about 300 streams, about 4 percent of the waterways in the state, agency officials said.

Don Garvin, lobbyist for the West Virginia Environmental Council, said the DEP's action would help regulated industries gut the stream list.

"It's going to be almost impossible to protect streams in this state," Garvin said.

Huffman said he doesn't believe the DEP ever made a definite decision to move forward without legislative action on the stream list.

"My understanding was that was an option that was on the table at the time," said Huffman, who is running the DEP while Timmermeyer is on maternity leave. "There were a number of options there."

In a March 15 interview, Timmermeyer and DEP spokeswoman Jessica Greathouse said the agency planned to file the final rules, despite legislative inaction.

Timmermeyer cited several state Supreme Court decisions she said supported the DEP's plan.

Under those rulings, she said, lawmakers can approve, reject or amend state agency rules, but she said the Legislature can't veto an agency rule by simply not acting on it at all.

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## Form #4

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TITLE 60  
LEGISLATIVE RULE  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
SECRETARY'S OFFICE

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2007 JAN 18 PM 2: 25

SERIES 5  
ANTIDEGRADATION IMPLEMENTATION PROCEDURES

OFFICE WEST VIRGINIA  
SECRETARY OF STATE

**§60-5-1. General.**

1.1. Scope. -- This rule establishes the procedures by which the Department of Environmental Protection shall implement the State's water quality anti-degradation policy found at ~~46 CSR 1-4~~. 47 CSR 2-4.

1.2. Authority. -- W. Va. Code ~~§§22-11-7b(a)&(b)~~ §22-11-7b(d). ~~House Bills 3240 and 2663~~.

1.3. Filing Date. -- ~~July 19, 2002~~.

1.4. Effective Date. -- ~~July 19, 2002~~.

1.5. Applicability

1.5.a. Except as noted, the antidegradation implementation procedures herein apply to regulated activities that have the potential to affect water quality. The level of review required will depend upon the existing uses of the water segment that would be affected, the level of protection ("tier") assigned to the applicable water segment, the nature of the activity, and the extent to which existing water quality would be degraded.

1.5.b. Nonpoint source activities will be deemed to be in compliance with antidegradation requirements with the installation and maintenance of cost-effective and reasonable best management practices in accordance with ~~46 CSR 1-4.1.b~~. 47 CSR 2-4.1.b herein. These include, but are not limited to, best management practice programs for silviculture administered by the Division of Forestry, programs for oil and gas operations administered by the Office of Oil and Gas of the Department of Environmental Protection, nonpoint source construction activities, and reasonable land, soil and water conservation

measures and practices applied to agricultural nonpoint sources.

1.5.c. Where applicable and practical, the antidegradation procedure and review shall be integrated into and proceed concurrently with existing environmental processes and reviews pursuant to the National Environmental Policy Act.

1.5.d. Information contained within existing environmental processes and reviews, such as environmental assessments, environmental impact statements, facilities plans, and findings of no significant impact, may be used to provide part or all of the requirements of the antidegradation procedure and review.

**§60-5-2. Definitions.**

2.1. ~~For purposes of this rule the term "agency"~~ "Agency" or "agencies" refers to means the Department of Environmental Protection or other federal, state, or local governmental entities with regulatory authority over activities that may affect water quality.

2.2. "Ambient concentration" means that measured value or level of water quality downstream of the proposed or existing activity (discharge point for point source, runoff area for nonpoint source) for any parameter of concern determined through EPA-approved, collection and analytical methods in 40 CFR 136 or other methods accepted by the Secretary.

2.3. "Ambient water quality conditions" (AWQC) means those physical, chemical, biological and radiological conditions of the receiving waters of the state existing at the time of review of a regulated entity.

2.4. "Baseline water quality" means that ambient concentration established at the time of an

initial antidegradation review under rules effective May 17, 2001, for a stream or stream segment or any other water(s) of the state.

2.5. For purposes of this rule references to the "Board" or "EQB" means the West Virginia Environmental Quality Board.

~~2.3.~~ 2.6. For purposes of this rule the term "minimum uses" refers to "Minimum uses" means recreation and wildlife and the propagation and maintenance of fish and other aquatic life.

2.7. "Parameter of concern" means any parameter for which numeric water quality criteria have been adopted in 47CSR2 and any other parameter for which numeric criteria are not established but where the discharge of such parameter has a reasonable potential to either cause or contribute to a violation of the narrative criteria outlined under 47CSR2, section 3.

2.8. "Reasonable less-degrading or non-degrading alternatives" shall be identified based on case specific information. In most cases, less-degrading or non-degrading pollution control alternatives shall be considered reasonable where the costs of such alternatives are less than 110% of the costs of the pollution control measures associated with the proposed activity.

~~2.2.~~ 2.9. For purposes of this rule the term "regulated entity" "Regulated entity" refers generally to means any regulated entity that affects or is proposing an activity that will affect water quality. For example, an applicant for a WV/NPDES permit, a WV/NPDES permit holder, or an owner or operator of an activity that discharges pollutants into a water of the state would be a regulated entity.

~~2.4.~~ 2.10. For purposes of this rule the term "Secretary" refers to means the Secretary of the Department of Environmental Protection or its successor.

2.11. "Trading" means establishing upstream controls for a parameter of concern to compensate for new or increased downstream sources for the same parameter resulting in

improved water quality for the parameter traded. More than one parameter of concern may be traded on a given stream. Trading may involve point sources, nonpoint sources or a combination of point and nonpoint sources. Unused permitted capacity cannot be traded.

2.12. "Trading assessment procedure" means methodologies to be used by the Secretary to document the basis for any trade and include Total Maximum Daily Load Procedures (40 CFR 130.2(i)), wasteload allocation procedures outlined in EPA's Technical Support Document for Water Quality-based Toxics Control (EPA/505/2-90-001 PB91-127415, March 1991), wasteload allocation methodologies outlined in EPA's Draft Framework for Watershed-Based Trading (EPA/800-R-96-001, May 1996) or other EPA approved wasteload allocation methodologies as long as these methodologies are consistent with the trading provisions of this rule.

~~2.6. For purposes of this rule the definitions contained in 46 CSR 1-2 effective May 17, 2001 are hereby incorporated herein.~~

#### **§60-5-3. Antidegradation Review Process.**

3.1. As set forth in ~~46 CSR 1-4.1~~ 47 CSR 2-4.1, the State's antidegradation policy requires that existing uses and the level of water quality necessary to protect the existing uses shall be maintained and protected. This requirement applies to all waters of the state.

3.2. Except where a water segment is specifically listed as a Tier 2.5 or Tier 3 water, the following sections outline how the agency conducting the antidegradation review will determine the level of protection ("tier") assigned to the receiving water body associated with the activity subject to this rule.

3.3. Uses. The Secretary, in conducting an antidegradation review, must determine the existing uses of the receiving water body associated with the proposed activity. The Secretary shall determine the existing uses of the water body by identifying the uses set forth in ~~46 CSR 1-Section 6~~ 47 CSR 2-6 that the water body currently supports, or has supported since November 28, 1975. The regulated entity may be required to provide data sufficient for the

permitting agency to determine the existing uses of the water segment.

3.4. Baseline water quality. Where baseline water quality has not been established for the water segment the regulated entity proposes to impact or has not been established for a parameter of concern that is reasonably expected to be discharged into the water segment as a result of the proposed regulated activity, the Secretary must determine the baseline water quality for the receiving water body. The Secretary may consider data for establishing the baseline water quality from a federal or state agency, the regulated entity, the public, or any other source, as long as the data are recent and reliable. If adequate data are not available, the agency may, in conjunction with the regulated entity or on its own initiative, establish a plan for obtaining the necessary data. The regulated entity may be required to provide baseline water quality for those parameters of concern that are reasonably expected to be discharged as a result of the regulated activity into the affected water segment to help the permitting agency determine the baseline water quality, the existing uses, and the applicable tier. The regulated entity may contact the Secretary prior to initiating a baseline water quality evaluation to seek concurrence with its determination of the parameters of concern for its proposed activity and its proposed sampling protocol.

3.5. Determination of tier. If the tier has not already been determined for the water segment the regulated entity proposes to impact, then after determining the baseline water quality for parameters of concern and the existing uses for a water body, the agency will determine which level of protection (i.e. "tier") applies to the receiving water body associated with the activity, as follows:

3.5.a. Water segments listed in Appendix A of this rule shall receive Tier 2.5 protection.

3.5.b. Water segments within a federally designated Wilderness Area, as well as other water segments specifically listed in this rule as an outstanding national resource water pursuant to subsection 8.2 shall receive Tier 3

protection.

3.5.c. Water segments not within a federally designated Wilderness Area, not listed pursuant to subsection 8.2 and not listed in Appendix A of this rule shall receive Tier 1 protection, and shall receive Tier 2 protection if the water segment is determined, pursuant to subsections 5.1. through 5.3. of this rule, to be a high quality water for purposes of antidegradation review.

3.5.d. Water segments may be determined to receive only Tier 1 protection, pursuant to subsections 4.2. through 4.6. of this rule, for purposes of antidegradation review.

3.5.e. To the extent practicable, a list of water segments protected under Tier 2.5 or Tier 3 will be maintained on the West Virginia Department of Environmental Protection's website.

3.6. Level of review. Once the correct level of protection ("tier") and water segment use(s) are identified for the receiving water body, the agency shall document its findings and proceed with the appropriate level of antidegradation review.

3.7. On or after July 2, 2001, the effective date of these implementation procedures, new and reissued WV/NPDES general permits will be evaluated to consider the potential for significant degradation as a result of the permitted activity. Regulated activities that are granted coverage by a WV/NPDES general permit will not be required to undergo a Tier 2 antidegradation review as part of the permit registration process. Regulated activities that are granted coverage by a WV/NPDES permit that will degrade a Tier 2.5 or Tier 3 water segment must comply with the requirements of sections 6 and 7 herein.

3.8. Regulated activities that qualify for coverage under a Corps of Engineers regional or nationwide permit pursuant to section 404 of the Federal Act that has been certified by the state pursuant to section 401 of the Federal Act will not be required to undergo a Tier 2 antidegradation review, provided, however, that where an individual 401 certification is required, the Secretary may require an appropriate antidegradation review. Where an activity covered

by a regional or nationwide permit pursuant to section 404 of the Federal Act and certified pursuant to section 401 of the Federal Act allows for filling of a water, this exemption only applies to the site of the fill, and does not apply to activities downstream of the site of the fill. Regulated activities that are granted section 401 certification that will degrade a Tier 2.5 or Tier 3 water segment must comply with the requirements of sections 6 and 7 herein.

3.9. The Secretary shall develop guidance which addresses these implementation procedures and provides additional information to persons conducting regulated activities that are affected by these procedures. Such guidance shall include, but shall not be limited to, information regarding the following: (a) the determination of baseline water quality; (b) social and economic importance pursuant to subsection 5.8; and (c) the reasonable alternatives analysis required by subsection 5.7. The Secretary shall provide an opportunity for public review and comment before finalizing any guidance. ~~Within twelve months of the effective date of this rule, the Secretary shall report to the advisory committee established pursuant to W. Va. Code §22-1-9 regarding the status of its implementation.~~

#### **§60-5-4. Tier 1 Protection.**

4.1. Existing uses and the level of water quality necessary to protect the existing uses shall be maintained and protected.

4.2. Tier 1 protection applies to all waters of the state. A water segment shall be afforded Tier 1 protection where the level of water quality is not sufficient to support recreation and wildlife and the propagation and maintenance of fish and other aquatic life, or where the water quality meets but does not exceed levels necessary to support recreation and wildlife and the propagation and maintenance of fish and other aquatic life.

4.3. In determining whether a water segment is afforded only Tier 1 protection, the agency will focus on whether the water segment is meeting or failing to meet minimum uses, except that, notwithstanding any other provision of this rule, the main stems of the Monongahela

River, and the Kanawha River from milepoint 72 to the confluence with the Ohio River shall be afforded Tier 1 protection only.

4.4. The Secretary will consider whether a water segment is listed on the state's 303(d) impaired waters list, but where the parameter(s) for which the water segment is listed does not result in that water segment's failure to attain minimum uses and where all other parameters exceed the quality necessary to support recreation and wildlife and the propagation and maintenance of fish and other aquatic life, the water segment will be afforded Tier 2 protection. Where the parameter(s) for which the water segment is listed does result in failure to attain minimum uses, such as an acid mine drainage-impacted water segment, that water segment will be afforded only Tier 1 protection.

4.5. All water segments listed on the state's 303(d) impaired waters list will be afforded only Tier 1 protection for the parameter(s) that resulted in the water segment being listed.

4.6. There also may be waters in the state where one or both of the fishable/swimmable uses are attained, but existing water quality is not "better than necessary" to support those uses (i.e., assimilative capacity does not exist for any of the parameters that would be affected by the proposed activity). Tier 1 protection is appropriate for such a water segment.

4.7. Where existing uses of the water body are impaired, there shall be no lowering of the water quality with respect to the parameters of concern that are causing the impairment. The agency shall consider nomination of such water body for the 303(d) list of water quality-impaired streams.

4.8. Where a proposed activity will result in a new or expanded discharge that would otherwise prevent attainment of an existing use in a water subject to Tier 1 protection, the applicant may be allowed to satisfy antidegradation review requirements by implementing or financing upstream controls of point or nonpoint sources sufficient to offset the water quality effects of the proposed activity from the same parameters and insure an improvement in water quality as a result of the trade. The basis of the trade will be documented and will be consistent with the trading

assessment procedure that has been approved by the Secretary. A trade may be made between more than one stream segment where removing a discharge in one stream segment directly results in improved water quality in another stream segment. In addition, (1) the effluent trade must be for the same parameter; (2) where uncertainty exists regarding the effluent trade, an adequate margin of safety will be required; (3) dischargers cannot claim offsets for water quality improvements that are required or will occur irrespective of the proposed new or expanded discharge; and (4) the trade must be enforceable.

#### **§60-5-5. Tier 2 Protection (High Quality Waters).**

5.1. A water segment shall be considered a Tier 2 high quality water where the level of water quality exceeds levels necessary to support recreation and wildlife and the propagation and maintenance of fish and other aquatic life.

5.2. Tier 2 waters need not exceed the level of quality needed to meet or exceed numeric criteria for every parameter. ~~Water segments that support the minimum fishable/swimmable uses and have assimilative capacity remaining for some parameters shall generally be afforded Tier 2 protection.~~ For example, a water segment listed on the state's 303(d) impaired waters list can qualify for Tier 2 protection, but where the impairment that caused the water segment to be listed results in failure to attain minimum uses, that water segment will be afforded only Tier 1 protection.

5.3. Where a water segment does not meet or exceed applicable water quality criteria for every parameter, the Secretary will determine whether the water segment will be afforded Tier 2 protection as part of the antidegradation review process using best professional judgment. In addition to data available for review, the Secretary may consider factors such as (1) existing aquatic life uses, (2) existing recreational or aesthetic uses, (3) existing water quality data for upstream segments or comparable segments, (4) biological score for the water segment, and (5) the overall value of the segment from an

ecological, health and public use perspective.

5.4. Where insufficient information is available to determine which tier should apply, a regulated entity may seek a determination that a water segment should be afforded only Tier 1 protection by submitting water quality data consistent with guidance developed pursuant to subsection 3.9. of this rule showing that there is no remaining assimilative capacity for any parameter to be affected by its activity. In seeking such a determination, the impacts of all of the regulated entity's activities on the water segment must be considered.

5.5. Where there is insufficient information to establish which tier should apply, it is the intent of these procedures to apply Tier 2 protection to such waters until such time as sufficient water quality data is obtained to determine the appropriate level of protection. No presumption shall be made with regard to the actual quality of any waters as a result of such initial application.

#### **5.6. Tier 2 antidegradation review.**

5.6.a. Any regulated activity in a Tier 2 water segment is required to go through the Tier 2 antidegradation review process where:

5.6.a.1. The regulated activity is a new or expanded activity that would significantly degrade water quality; or

5.6.a.2. The Secretary determines, upon renewal of a permit or certification, that other individual circumstances warrant a full review such as cumulative degradation resulting from multiple discharges within a watershed, degradation resulting from a single discharge over time, or degradation caused by a regulated facility's historic noncompliance with its permit.

5.6.b. In allowing any degradation, the agency shall assure water quality adequate to protect existing uses fully (i.e., Tier 1 protection).

~~5.6.c. The Secretary may determine that certain types or classes of activities should be exempt from Tier 2 review after balancing the relative impact of the activities on~~

~~water quality against the overall benefit of the activities to public health and welfare or the environment. The Secretary's discretion to exempt activities from review pursuant to this section shall be exercised and construed narrowly. Such types or classes of activities may include, for example, expansions or improvements to publicly owned wastewater treatment facilities or activities, public benefit activities by governmental entities, or discharges related to environmental remediation activities. Where the agency tentatively determines to grant an exemption under this provision, notice of this determination must be included in any required public notice, such as public notice required prior to issuance of an NPDES permit. The Secretary's final determination is a final decision and subject to appeal to the Environmental Quality Board. A proposed new or expanded discharge from a publicly owned or publicly owned and privately operated sanitary wastewater treatment plant constructed or operated to alleviate a public health concern associated with failing septic systems or untreated or inadequately treated sewage, is exempt from Tier 2 review. This exemption would include combined sewer overflow elimination or reduction projects affecting one or more water bodies and applies only where there will be a net decrease in the overall pollutant loading discharged to the combined receiving waters.~~

5-6.d. 5.6.c. Degradation for Tier 2 shall be deemed significant if the activity results in a reduction in the water segment's available assimilative capacity (the difference between the baseline water quality and the water quality criteria) of ten percent or more at the appropriate critical flow condition(s) for parameters of concern. Critical flow conditions for non-precipitation induced discharges are the 7Q10 flow of the receiving stream, plus either of the following: maximum permitted flow or maximum flow specified in the application, for industrial activities, or the average design flow, for wastewater treatment activities. Degradation will also be deemed significant if the proposed activity, together with all other activities allowed after the baseline water quality is established, results in a reduction in the water segment's available assimilative capacity of 20% or more at the appropriate

critical flow conditions for the parameters of concern: except that discharges affecting dissolved oxygen, pH, fecal coliform or temperature will be deemed insignificant provided that:

5.6.c.1. For dissolved oxygen, the maximum DO sag will not be greater than 0.4 ppm based on an appropriate wasteload allocation model, unless that reduction is projected to cause a violation of 47 CSR 2-8.12 through 8.12.3, Appendix E, Table 1;

5.6.c.2. pH is maintained within the 6.0 to 9.0 range;

5.6.c.3. Thermal discharges will be consistent with 316(a) of the Federal Act or will not increase the temperature more than two degrees Fahrenheit at any time or cause other violations of applicable criteria in 47 CSR 2-8.28 through 8.28.4, Appendix E, Table 1.

5.6.c.4. For fecal coliform, necessary and appropriate treatment (disinfection) or control is required and the fecal coliform concentrations are established as 200/100 ml monthly average and 400/100 ml daily maximum.

5-6.e. 5.6.d. Significant degradation will be determined on a parameter-by-parameter basis for each parameter of concern that might be affected by the regulated activity.

5-6.f. 5.6.e. A proposed activity that will result in a new or expanded discharge in a water subject to Tier 2 protection may be allowed where the applicant agrees to implement or finance upstream controls of point or nonpoint sources sufficient to offset the water quality effects of the proposed activity from the same parameters and insure an improvement in water quality as a result of the trade. The basis of the trade will be documented and will be consistent with the trading assessment procedure that has been approved by the Secretary. A trade may be made between more than one stream segment where removing a discharge in one stream segment directly results in improved water quality in another stream segment. In addition, (1) the effluent trade must be for the same parameter; (2) where uncertainty exists regarding the effluent trade, an adequate margin of

safety will be required; (3) dischargers cannot claim offsets for water quality improvements that are required or will occur irrespective of the proposed new or expanded discharge; and (4) the trades must be enforceable.

~~5.6.g.~~ 5.6.f. New or expanded activities determined to be significant by the agency shall be subject to the Tier 2 review requirements described in subsections 5.6. through 5.9. herein. If the agency determines that no further Tier 2 review requirements shall apply for an activity, the activity must still achieve the highest established statutory and regulatory requirements applicable to them, or conditions of the permit, or water quality certification, and that determination must be made a part of the public notification, as provided in subsections 9.1 through 9.5.

#### 5.7. Review of alternatives.

5.7.a. If a determination is made that significant degradation will occur, the agency shall determine whether reasonable and cost effective less-degrading or non-degrading alternatives to the proposed activity exist. The agency will evaluate any alternatives analysis submitted by the regulated activity for consistency with the requirements set forth in Subdivision 5.7.b. herein.

5.7.b. A regulated entity proposing any new or expanded regulated activity that would significantly degrade water quality in a high quality water is required to prepare an evaluation of alternatives to the proposed activity. The evaluation must provide substantive information pertaining to the cost and environmental impacts associated with the following alternatives:

5.7.b.1. Pollution prevention measures;

5.7.b.2. Reduction in scale of project;

5.7.b.3. Water recycle or reuse;

5.7.b.4. Process changes;

5.7.b.5. Innovative treatment technology or technologies;

5.7.b.6. Advanced treatment technology or technologies;

5.7.b.7. Seasonal or controlled discharge options to avoid critical water quality periods;

5.7.b.8. Improved operation and maintenance of existing treatment systems; and

5.7.b.9. Alternative discharge locations.

5.7.c. After alternatives to allowing degradation have been adequately evaluated, a determination shall be made regarding whether cost-effective and reasonable non-degrading or less-degrading alternatives to the proposed activity shall be required. This determination will be based primarily on the alternatives analysis developed by the regulated entity, but may be supplemented with other information and data. As a rule of thumb, cost effective and reasonable non-degrading or less-degrading pollution control alternatives with costs that are less than 110% of the costs of the pollution control measures associated with the proposed activity shall be considered reasonable.

5.7.d. If it is determined that reasonable and cost effective less degrading or non-degrading alternatives to the proposed activity do exist, the project design may be revised accordingly. In general, if reasonable alternative(s) exist, the alternative or combination of alternatives that provide the least amount of degradation shall be implemented up to the determined reasonable and cost-effective threshold. If the regulated entity does not agree to adopt such reasonable and cost-effective alternatives, the alternatives analysis findings will be documented and the activity will not be allowed.

5.8. Review of social and economic importance.

5.8.a. If significant degradation would occur, even after application of reasonable

less-degrading or non-degrading alternatives, a determination shall be made as to whether the proposed activity is necessary to accommodate important economic or social development in the area in which the waters are located.

5.8.b. The regulated activity must document the social and economic importance of the proposed activity.

5.8.c. The factors to be addressed in such documentation may include, but are not limited to, the following:

5.8.c.1. Employment (e.g., increasing, maintaining or avoiding a reduction in employment);

5.8.c.2. Increased production;

5.8.c.3. Improved community tax base;

5.8.c.4. Housing;

5.8.c.5. Ancillary community economic benefit; and

5.8.c.6. Correction of an environmental or public health problem.

5.8.d. In addition to the above, a regulated entity may be required to submit the following:

5.8.d.1. Information pertaining to current aquatic life, recreational, or other water uses;

5.8.d.2. Information necessary to determine the environmental impacts that may result from the proposed activity;

5.8.d.3. Facts pertaining to the current state of economic development in the area (e.g., population, area employment, area income, major employers, types of businesses);

5.8.d.4. Government

fiscal base; and

5.8.d.5. Land use in the areas surrounding the proposed activity.

5.8.e. Once the available information pertaining to the socio-economic importance of the proposed activity has been reviewed by the agency, a preliminary determination regarding importance shall be made. In evaluating the regulated activity's demonstration of socio-economic importance, the agency may use EPA's Interim Economic Guidance for Water Quality Standards Workbook (EPA 823-B-95-002, March, 1995). Where there is a request for a variance from groundwater standards pursuant to 47 CSR 57 for existing sites where activities on those sites have the potential to impact surface water from contaminated groundwater and the activity is otherwise subject to this rule, the socio-economic justification process required under 47 CSR 57 subdivision 6.2.i will satisfy the requirements of this section. If the proposed activity is determined to have social or economic importance in the area in which the affected waters are located, the substance and basis for that preliminary determination shall be documented and the Tier 2 review shall continue.

5.9. Intergovernmental coordination for Tier 2 reviews.

5.9.a. The intergovernmental coordination requirements in ~~46 CSR 1-4.1.b.~~ 47 CSR 2-4.1.b. will be accomplished by providing notice to those agencies listed in Appendix B that the Secretary believes may have regulatory oversight of the regulated activity of the preliminary determination of the socio-economic review and requesting comments from those agencies regarding that review.

5.9.b. The public notice of the proposed activity will be provided as set forth in subsections 9.1 through 9.5 herein.

5.9.c. Once the intergovernmental coordination and public notice requirements are satisfied, the Secretary shall make a final determination concerning the social or economic importance of the proposed activity. All social and economic importance determinations, including determinations to prohibit the activity, shall be

documented and made a part of the public record.

**§60-5-6. Tier 2.5 Protection Review Procedures (Waters of Special Concern).** See ~~46 CSR 1-4.1.c~~ 47 CSR 2-4.1.c, and ~~46 CSR 1-2.29~~ 47 CSR 2-2.19 for a description and definition of Waters of Special Concern.

6.1. Any proposed activity that would degrade a water segment listed in Appendix A of this rule as waters of special concern will go through the Tier 2.5 antidegradation review process. Discharges from publicly-owned or publicly-owned and privately operated sanitary wastewater treatment plants that expand to alleviate a public health concern associated with failing septic systems or untreated or inadequately treated sewage, shall be permissible in a Tier 2.5 water segment where there will be a net decrease in the overall pollutant loading discharged to the combined receiving waters: Provided, That less degrading alternative treatment technologies are considered and used where costs for such technologies are within budgets and rates approved for such expansion project. This provision may extend to combined sewer overflow elimination or reduction projects. Except as provided in subdivisions 6.2.a. and b. of this rule, the listing procedure for Tier 2.5 waters is set forth in section 8.1. herein. Currently listed Tier 2.5 waters are included in Appendix A to this rule.

**6.2. Initial Presumptive Listing for Tier 2.5:**

~~6.2.a. The stream or stream segments that appear on Appendix C shall be presumed to qualify as Tier 2.5 waters. Before any such stream or stream segment is protected as Tier 2.5 waters (and listed on Appendix A) the Secretary shall do the following:~~

~~6.1.a.1. Assure compliance with all provisions of article one-a of chapter twenty-two; and~~

~~6.1.a.2. No sooner than six months and no later than twelve months from the effective date of this rule, provide, where practicable, individual notice to property~~

~~owners along such stream or stream segment. In addition, notice by publication shall be provided to all property owners and others with a legal interest in the property. The notice shall include at a minimum, the information set forth in subparagraphs 8.1.a.1.A. through 8.1.a.1.D. of this rule. The notice shall indicate that a property owner or holder of legal interest in the property shall have thirty days to file an objection to the inclusion of the stream or stream segment as a Tier 2.5 water.~~

~~6.2.b. Should an objection be received from an owner or holder of a legal interest in property adjoining any stream on Appendix C, the Secretary shall provide written justification for the inclusion of the stream as a Tier 2.5 stream with reference to the criteria set out in paragraph 8.1.a.2. of this rule. The Secretary shall then provide a thirty-day comment period on the proposed action.~~

~~6.2.b.1. Where no objection is made to the inclusion of a stream or stream segment as a Tier 2.5 water, the stream shall be included by the Secretary on Appendix A without further justification.~~

~~6.2.b.2. Any final decision by the Secretary with regard to the inclusion of a stream in Tier 2.5 made following the procedure set forth in this paragraph, may be appealed to the EQB. For those streams for which the Secretary receives an objection to inclusion of the stream as a Tier 2.5 stream, the Secretary shall make a decision whether to include the stream on the initial listing on Appendix A and shall provide a written justification for the decision.~~

~~6.2.c. Following the initial listing for Tier 2.5 waters, as described in subdivisions 6.2.a. and b. above, subsequent additions or deletions from Appendix A shall be in accordance with section 8.1., herein.~~

6.2. Currently listed Tier 2.5 waters are included in Appendix A to this rule. Subsequent additions or deletions from Appendix A shall be in accordance with subsection 8.1.

**6.3. Tier 2.5 antidegradation review.**

**6.3.a. No significant degradation**

of Tier 2.5 waters will be allowed. For Tier 2.5 waters, degradation will be deemed significant if it exceeds the baseline water quality plus ten percent of available assimilative capacity (the difference between the baseline water quality and the water quality criteria), whether from a single activity or cumulatively, except that discharges affecting dissolved oxygen, pH, fecal coliform or temperature will be deemed insignificant provided that:

6.3.a.1. For dissolved oxygen, the maximum DO sag will not be greater than 0.4 ppm based on an appropriate wasteload allocation model, unless that reduction is projected to cause a violation of ~~46 CSR 1-8.12 through 8.12.3~~, 47 CSR 2-8.12 through 8.12.3, Appendix E, Table 1;

6.3.a.2. pH is maintained within the 6.0 to 9.0 range;

6.3.a.3. Thermal discharges will be consistent with 316(a) of the Federal Act or will not increase the temperature more than two degrees Fahrenheit at any time or cause other violations of applicable criteria in ~~46 CSR 1-8.28 through 8.28.4~~ 47 CSR 2-8.28 through 8.28.4, Appendix E, Table 1.

6.3.a.4. For fecal coliform, necessary and appropriate treatment (disinfection) or control is required and the fecal coliform concentrations are established as 200/100 ml monthly average and 400/100 ml daily maximum.

6.3.b. Where a Tier 2.5 water has one or more parameters that fail to meet water quality criteria, the Secretary shall use best professional judgment in setting appropriate limitations for such parameters, with the goal of improving baseline water quality for such parameters over time.

6.3.c. Where baseline water quality has not been established for the Tier 2.5 water segment for a parameter of concern that is reasonably expected to be discharged into the water segment as a result of a new or expanded regulated activity, a determination of the baseline water quality for the receiving water segment must be established for that parameter

of concern prior to allowing any new or expanded discharge.

6.3.d. The Secretary may consider data for establishing the baseline water quality from a federal or state agency, the regulated entity, the public, or any other source, as long as the data are recent and reliable. The regulated entity may be required to provide baseline water quality for those parameters of concern that are reasonably expected to be discharged as a result of the regulated activity into the affected water segment.

6.3.e. After the baseline water quality has been established for the parameters of concern reasonably expected to be discharged by the proposed activity, the *de facto* criteria for those parameters of concern will equal the established baseline water quality plus ten percent of available assimilative capacity.

6.3.f. Regulated entities with discharges existing on or before July 2, 2001, the effective date of this rule, that discharge into a Tier 2.5 water may be required to submit an alternatives analysis upon renewal of its application or upon the written request of the Secretary to evaluate reasonable and cost-effective alternatives that would reduce the activity's impact to a Tier 2.5 water.

6.3.g. Discharges from activities in waters upstream of a water of special concern shall not result in the ambient water quality within the Tier 2.5 water exceeding the *de facto* criteria.

6.3.h. A proposed activity that will result in a new or expanded discharge in a water subject to Tier 2.5 protection may be allowed where the applicant agrees to implement or finance upstream controls of point or nonpoint sources sufficient to offset the water quality effects of the proposed activity from the same parameters and insure an improvement in water quality as a result of the trade. The basis of the trade will be documented and will be consistent with the trading assessment procedure that has been approved by the Secretary. A trade may be made between more than one stream segment where removing a discharge in one stream segment directly results in improved water quality in another stream segment. In addition, (1) the effluent trade must be for the same parameter; (2) where uncertainty exists

regarding the effluent trade, an adequate margin of safety will be required; (3) dischargers cannot claim offsets for water quality improvements that are required or will occur irrespective of the proposed new or expanded discharge; and (4) the trades must be enforceable.

6.3.i. If a determination is made that the activity will result in significant degradation of a Tier 2.5 water, the activity shall not be allowed.

6.3.j. If the activity is determined not to result in significant degradation of a Tier 2.5 water, the activity may be allowed. In such case the antidegradation review findings will be documented in writing and public notice activities will be initiated consistent with subsections 9.1 through 9.5 herein.

6.3.k. Short-term water quality impacts. The Secretary shall determine whether a proposed activity is short term in nature and the resulting changes in water quality will be temporary and have limited effects. Notwithstanding subdivisions 6.3.a. and 6.3.e. herein, short-term activities which result in less than a 10% change in the available assimilative capacity may be deemed to have limited effects. Determinations will be made on a case-by-case basis and shall be made after consideration of the following factors:

6.3.k.1. The length of time during which the water quality will be lowered;

6.3.k.2. The percent change in ambient concentrations;

6.3.k.3. The parameters affected;

6.3.k.4. The likelihood for long-term water quality benefits to the segment (e.g., as may result from dredging of contaminated sediments);

6.3.k.5. The degree to which achieving applicable water quality standards during the proposed activity may be at

risk;

6.3.k.6. The potential for any residual long-term influences on existing uses; and

6.3.k.7. The cumulative impacts from all sources for the parameters affected.

**§60-5-7. Tier 3 Protection Review Procedures (Outstanding National Resource Waters).** See ~~46 CSR 1-4.1.d and 46 CSR 1-2.15~~ 47 CSR 2-4.1.d and 47 CSR 2-2.9 for a description of Outstanding National Resource Waters (ONRW).

7.1. Tier 3 waters. ONRWs are to be maintained, protected and improved where necessary. Any proposed new or expanded regulated activity that would degrade (result in a lowering of water quality) a water body that has been ~~approved as~~ designated an ONRW, other than temporary lowering of water quality, is prohibited.

7.2. Tier 3 antidegradation review. The agency shall use the following antidegradation implementation procedures for evaluating new or expanded regulated activities that have the potential to affect Outstanding National Resource Waters (ONRWs), as described in ~~46 CSR 1-4.1.c.~~ 47 CSR 2 - 4.1.d. and as ~~nominated and approved listed~~ in accordance with ~~the provisions of this rule.~~ subsection 8.2.

7.2.a. Determine whether the proposed activity is short term in nature and the resulting changes in water quality will be temporary. Such determination will be made on a case-by-case basis and shall be made after consideration of the following factors:

7.2.a.1. The length of time during which the water quality will be lowered;

7.2.a.2. The percent change in ambient concentrations;

7.2.a.3. The parameters affected;

7.2.a.4. The likelihood for long-term water quality benefits to the segment

(e.g., as may result from dredging of contaminated sediments);

7.2.a.5. The degree to which achieving applicable water quality standards during the proposed activity may be at risk; and

7.2.a.6. The potential for any residual long-term influences on existing uses.

7.2.b. If after review of the factors in paragraphs 7.2.a.1 through 7.2.a.6, the agency determines that the proposed activity will be short term in nature and the changes in water quality will be temporary and limited, the proposed activity may be authorized. In such case the antidegradation review findings shall be documented and public notice activities shall be initiated. If after review of the factors in paragraphs 7.2.a.1 through 7.2.a.6, the agency determines that the proposed activity will not be short term in nature or that changes in water quality will not be temporary and limited, the proposed activity shall be denied.

7.3. Sources upstream from an ONRW. Any proposed activity that would result in a permanent new or expanded discharge upstream of an ONRW segment is prohibited except where such source would improve or not degrade the existing water quality of the downstream ONRW segment.

7.3.a. To determine whether the proposed activity will result in the lowering of water quality in the downstream ONRW segment, the following factors, when applicable, shall be considered:

7.3.a.1. Change in ambient concentrations predicted at the appropriate critical condition(s);

7.3.a.2. Change in loadings (i.e., the new or expanded loadings compared to total existing loadings to the segment);

7.3.a.3. Reduction in available assimilative capacity;

7.3.a.4. Nature, persistence and potential effects of the parameter;

7.3.a.5. Potential for cumulative effects;

7.3.a.6. Degree of confidence in the various components of any modeling technique utilized (e.g., degree of confidence associated with the predicted effluent variability); and

7.3.a.7. Other factors determined by the Secretary, when appropriate.

7.3.b. If a preliminary determination is made that the applicable criteria in paragraphs 7.3.a.1. through 7.3.a.7. will be met, the antidegradation review findings shall be documented and the applicable public notice activities shall be initiated. If after review of the factors in paragraphs 7.3.a.1. through 7.3.a.7., the Secretary determines that the proposed activity will result in the lowering of water quality in the downstream ONRW stream segment, the proposed activity shall be denied.

7.4. For ONRWs in areas designated as federal Wilderness, nothing in this rule is intended to authorize activities not authorized by the Wilderness Act.

7.5. A proposed activity that will result in a new or expanded discharge in a water subject to Tier 3 protection may be allowed where the applicant agrees to implement or finance upstream controls of point or nonpoint sources sufficient to offset the water quality effects of the proposed activity from the same parameters and insure an improvement in water quality as a result of the trade. The basis of the trade will be documented and will be consistent with the trading assessment procedure that has been approved by the Secretary. A trade may be made between more than one stream segment where removing a discharge in one stream segment directly results in improved water quality in another stream segment. In addition, (1) the effluent trade must be for the same parameter; (2) where uncertainty exists regarding the effluent trade, an adequate margin of safety will be required; (3) dischargers cannot claim offsets for water quality improvements that are required or will occur irrespective of the proposed new or

expanded discharge; and (4) the trade must be enforceable.

#### **§60-5-8. Designation of Tier 2.5 and Tier 3 Waters.**

##### **8.1. Listing process for Tier 2.5.**

8.1.a. Tier 2.5 Nomination Procedures. Any interested party or the Board Secretary may nominate a water to be listed as a Water of Special Concern. After reviewing the nomination the Board Secretary shall consider the qualification criteria and may designate the nominated water as a Tier 2.5 water in accordance with the ~~notice and comment provisions of 46 CSR 6, Procedural Rules Governing Site Specific Revisions to Water Quality Standards.~~ legislative rulemaking process pursuant to W.Va. Code § 29A-3-1 et seq. The address for filing such petitions is ~~West Virginia Environmental Quality Board, 1615 Washington Street, East, Room 301, Charleston, West Virginia 25311-2126.~~ West Virginia Department of Environmental Protection, Attn: Tier 2.5 List, 601 57<sup>th</sup> Street, SE, Charleston, WV 25304. The nominating party has the burden of establishing a basis for listing of a water segment as a Tier 2.5 water. The Board Secretary shall return insufficient nominations to the nominating party. Generally, nominations that fail to address at least three of the qualification criteria shall be considered insufficient.

8.1.a.1. Upon receiving a sufficient nomination of a water or segment of a water for designation as a Tier 2.5 water pursuant to the ~~Board's State's~~ antidegradation policy, the Board Secretary shall, within 180 days of receipt of the nomination, notify each locality in which the water or segment lies and shall provide individual notice to property owners on the nominated segment. Where individual notice to property owners is impracticable, constructive notice by publication shall be provided. The written notice shall include, at a minimum:

8.1.a.1.A. A description of the location of the waters or segment;

8.1.a.1.B. The procedures and criteria for designation as well as the impact of the designation;

8.1.a.1.C. The name of the person(s) making the nomination; and

8.1.a.1.D. The name of a contact person at the ~~Environmental Quality Board~~ Department of Environmental Protection who is knowledgeable about the nomination of the waters or segment. After receipt of the notice of the nomination, landowners, the public and localities shall be provided 60 days to comment.

8.1.a.2. Qualification Criteria. Factors to be considered in determining whether to assign a Water of Special Concern designation to a water from another category shall include the following:

+

8.1.a.2.A. Impact on private property owners;

8.1.a.2.B. Whether the interests of all affected parties have been adequately represented during the nomination and designation process;

8.1.a.2.C. The location of the water;

8.1.a.2.D. Any previous special designations;

8.1.a.2.E. Existing water quality;

8.1.a.2.F. Factors that indicate unique or exceptional ecological, recreational or aesthetic resource value;

8.1.a.2.G. Impact on economic development in the area, including development of demonstrated natural resources; and

8.1.a.2.H. Other factors determined by the Board Secretary, when applicable.

8.1.a.3. Reclassification of

a Water of Special Concern. The Board Secretary may on its own, or at the request of an interested party, consider reclassifying a Water of Special Concern to another antidegradation tier after following notice and comment procedures consistent with paragraph 8.1.a.1. In considering a reclassification, the Board Secretary shall review the criteria outlined in subparagraphs 8.1.a.2.A. through 8.1.a.2.H. above. After such consideration, the Board Secretary may reclassify a Tier 2.5 water in accordance with the ~~notice and comment provisions of 46 CSR 6, Procedural Rules Governing Site Specific Revisions to Water Quality Standards.~~ legislative rulemaking process pursuant to W.Va. Code §29A-3-1 et seq.

## 8.2. Listing process for Tier 3 waters.

8.2.a. Tier 3 Nomination Procedures. Any interested party or the Board Secretary may nominate a water as an ONRW. After reviewing the nomination the Board Secretary shall consider the qualification criteria and may classify the nominated water as a Tier 3 water in accordance with the notice and comment provisions of ~~46 CSR 6, Procedural Rules Governing Site Specific Revisions to Water Quality Standards.~~ this subsection. The address for filing such petitions is ~~West Virginia Environmental Quality Board, 1615 Washington Street, East, Room 301, Charleston, West Virginia 25311-2126.~~ West Virginia Department of Environmental Protection, Attn: Tier 3 List, 601 57<sup>th</sup> Street, SE, Charleston, WV 25304. The nominating party has the burden of establishing a basis for listing of a water segment as a Tier 3 water. The Board Secretary shall return insufficient nominations to the nominating party. Generally, nominations that fail to address at least three of the qualification criteria set out in paragraph 8.2.a.2. of this rule shall be considered insufficient.

8.2.a.1. Upon receiving a sufficient nomination of a water or segment of a water for designation as a Tier 3 water pursuant to the ~~Board's~~ State's antidegradation policy, the Board Secretary shall notify each locality in which the water or segment lies and shall provide individual notice to property

owners on the nominated segment. Where individual notice to property owners is impracticable, constructive notice by publication shall be provided. The written notice shall include, at a minimum:

8.2.a.1.A. A description of the location of the waters or segment;

8.2.a.1.B. The procedures and criteria for designation as well as the impact of the designation;

8.2.a.1.C. The name of the person(s) making the nomination; and

8.2.a.1.D. The name of a contact person at the Environmental Quality Board Department of Environmental Protection who is knowledgeable about the nomination of the waters or segment. After receipt of the notice of the nomination, landowners, the public and localities shall be provided 60 days to comment.

8.2.a.2. Qualification Criteria. Factors to be considered in determining whether to assign an ONRW designation to a water from another category shall include the following:

8.2.a.2.A. Impact on private property owners;

8.2.a.2.B. Whether the interests of all affected parties have been adequately represented during the nomination and designation process;

8.2.a.2.C. The location of the water;

8.2.a.2.D. Any previous special designations;

8.2.a.2.E. Existing water quality;

8.2.a.2.F. Outstanding ecological value;

8.2.a.2.G.

Outstanding recreational or aesthetic value; and

8.2.a.2.H.

Other factors determined by the ~~Board~~ Secretary, when applicable.

**§60-5-9. Public Participation in Antidegradation Reviews/Appeals.**

9.1. All antidegradation review findings shall be documented by the Secretary and made part of the public record. The findings, including the baseline water quality, the existing uses, and the tier assigned to the water body are to be available to the public.

9.2. Any required public notice will be provided through the appropriate Class I or Class II legal advertisement in a qualified newspaper with the largest circulation for the county where the activity will occur. The notice will identify the action being considered, list all existing uses identified of the water, and call for comments from the public regarding the proposed activity. The cost of such publication will be borne by the applicant.

9.3. Public notice, opportunity for public comment, and opportunity for a public hearing, consistent with the requirements of 47 CSR 10-12, will be provided of all activities proposed to be allowed after a Tier 1, 2, 2.5, or 3 antidegradation review. Such public notice may be combined with other required notifications, such as notification to agencies as part of required intergovernmental coordination or notification of a proposed permit decision. Public notice is not required to be provided for proposed activities on Tier 1 or Tier 2 waters for which a review process has not been required, such as activities covered by a WV/NPDES general permits, except that any trading approved by the Secretary for antidegradation purposes will require public notice consistent with the requirements of 47 CSR 10-12.

9.4. Public notice of Tier 2 antidegradation reviews.

9.4.a. After a full Tier 2 review has been completed for a proposed activity, the public notice shall include notice of the availability of the following:

9.4.a.1. The decision as to whether the proposed activity has been determined to comply with the antidegradation implementation rule;

9.4.a.2. Findings from the alternatives analysis;

9.4.a.3. A determination of the impact of the activity to ambient concentrations and baseline water quality;

9.4.a.4. The results of the socio-economic evaluation of the activity;

9.4.a.5. The determination regarding existence of reasonable and cost effective non-degrading or less degrading alternatives; and

9.4.a.6. A description of the water segment that is subject to the antidegradation review.

9.5. Once the intergovernmental coordination and public notice requirements of subsections 9.1. through 9.5. are satisfied, the Secretary shall make a determination concerning the social or economic importance in the area in which the affected water bodies are located. All determinations, including determinations to prohibit the activity, shall be documented and made a part of the public record.

9.6. Appeals-Final agency decisions, made after public comment, that identify applicable uses, designate tiers, or that find regulated activities to be allowed or prohibited, are final actions that are appealable ~~as set forth in the Administrative Procedures Act. Final agency actions made by the Secretary are appealable to the Board;~~ provided that the designation of waters as Tier 2.5 waters pursuant to subsections 6.2 and 8.1 shall not be subject to appeal.

**APPENDIX A**

~~WV DNR and WV DEP Waters of Special Concern (Tier 2.5 Waters)~~

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| <u>STREAM CODE</u>             | <u>STREAM NAME</u>              | <u>LOCATION</u>                                                                                                                                                          | <u>LENGTH<br/>(MILES)</u> |
|--------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| <u>Tug Fork Watershed</u>      |                                 |                                                                                                                                                                          |                           |
| <u>BST-60-D</u>                | <u>CUB BRANCH</u>               | <u>The section of stream within Panther Creek State Park, - tributary of Panther Creek of Tug Fork River</u>                                                             | <u>0.3</u>                |
| <u>BST-99</u>                  | <u>ELKHORN CREEK</u>            | <u>Headwaters downstream to 2.2 miles upstream of confluence with North Fork</u>                                                                                         | <u>6.2</u>                |
| <u>James River Watershed</u>   |                                 |                                                                                                                                                                          |                           |
| <u>J-1-A</u>                   | <u>EWIN RUN</u>                 | <u>Entire length within WV - tributary of Potts Creek</u>                                                                                                                | <u>2.6</u>                |
| <u>J-1-D</u>                   | <u>NORTH FORK/POTTS CREEK</u>   | <u>Entire length - tributary (fork) of Potts Creek</u>                                                                                                                   | <u>5.7</u>                |
| <u>Kanawha River Watershed</u> |                                 |                                                                                                                                                                          |                           |
| <u>(Upper &amp; Lower)</u>     |                                 |                                                                                                                                                                          |                           |
| <u>K-13</u>                    | <u>LITTLE SIXTEENMILE CREEK</u> | <u>Upper section of stream that is within Chief Cornstalk WMA - tributary of the (Lower) Kanawha River</u>                                                               | <u>1.2</u>                |
| <u>K-14-B-1</u>                | <u>UNT OF FIVEFORK BRANCH</u>   | <u>Entire length of unnamed tributary that drains into Fivefork Branch approx. 0.45 miles upstream of its confluence with Sixteenmile Creek of (Lower) Kanawha River</u> | <u>1.9</u>                |
| <u>K-39-E-3</u>                | <u>BAYS FORK</u>                | <u>Entire length - tributary of Middle Fork of Davis Creek of (Lower) Kanawha River</u>                                                                                  | <u>1.9</u>                |
| <u>K-39-M-1-A</u>              | <u>HOFFMAN HOLLOW</u>           | <u>Entire length - tributary of Middlelick Branch of Davis Creek of (Lower) Kanawha River</u>                                                                            | <u>2.3</u>                |
| <u>K-39-O</u>                  | <u>SHREWSBURY HOLLOW</u>        | <u>Entire length - tributary of Davis Creek of (Lower) Kanawha River</u>                                                                                                 | <u>1.5</u>                |
| <u>K-76</u>                    | <u>LOOP CREEK</u>               | <u>Entire length - tributary of Kanawha River</u>                                                                                                                        | <u>20.0</u>               |
| <u>Elk River Watershed</u>     |                                 |                                                                                                                                                                          |                           |
| <u>KE</u>                      | <u>ELK RIVER</u>                | <u>Begins at its headwater forks (Big Spring, Laurel Run, and Old Field Fork meet) downstream to confluence of Dry Fork</u>                                              | <u>5</u>                  |
| <u>KE-111-K</u>                | <u>SUGAR CREEK</u>              | <u>Headwaters to confluence of Little Sugar Creek - tributary of Elk River</u>                                                                                           | <u>10.5</u>               |
| <u>KE-111-K-2</u>              | <u>LITTLE SUGAR CREEK</u>       | <u>Entire length - tributary of Sugar Creek of Elk River</u>                                                                                                             | <u>7.6</u>                |
| <u>KE-129</u>                  | <u>VALLEY FORK</u>              | <u>Headwaters downstream to confluence of Redlick Run - tributary of Elk River</u>                                                                                       | <u>2.7</u>                |
| <u>KE-133</u>                  | <u>DRY FORK</u>                 | <u>Headwaters downstream to confluence of Douglas Fork - tributary of Elk River</u>                                                                                      | <u>3.8</u>                |
| <u>KE-135</u>                  | <u>BIG RUN</u>                  | <u>Entire length (south headwater fork incl.) This stream is located approx. 1.78 mi. upstream Blackhole Run - tributary of Elk River</u>                                | <u>1.9</u>                |

|                               |                                    |                                                                                                                                                 |             |
|-------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <u>KE-136</u>                 | <u>PROPS RUN</u>                   | <u>Begins with headwater forks downstream to mouth - tributary of Elk River</u>                                                                 | <u>1.4</u>  |
| <u>KE-137</u>                 | <u>LAUREL RUN/ELK RIVER</u>        | <u>Entire length (south headwater fork included) - tributary of Elk River</u>                                                                   | <u>2.6</u>  |
| <u>KE-139-0.5A</u>            | <u>SLATY FORK</u>                  | <u>Entire length - tributary of Old Field Fork of Elk River</u>                                                                                 | <u>4.8</u>  |
| <u>KE-139-B</u>               | <u>CROOKED FORK</u>                | <u>Begins with headwater forks downstream to mouth - tributary of Old Field Fork of Elk River</u>                                               | <u>2.5</u>  |
| <u>KE-98-B-16</u>             | <u>DESERT FORK</u>                 | <u>Begins at headwaters downstream to the confluence of Roaring Run - tributary of Right Fork of Holly River</u>                                | <u>5</u>    |
| <u>KE-98-C</u>                | <u>LEFT FORK HOLLY RIVER</u>       | <u>Tributary of Holly River - section from headwaters downstream to Laurel Fork.</u>                                                            | <u>5.8</u>  |
| <u>KE-98-C-1</u>              | <u>LAUREL PATCH RUN</u>            | <u>Tributary of Left Fork of Holly River of Elk River - section within Elk River WMA</u>                                                        | <u>1.5</u>  |
| <u>KE-98-C-11</u>             | <u>LAUREL FORK/LEFT FORK HOLLY</u> | <u>Begins at the confluence of Right Fork/Middle Fork/Left Fork of Laurel Fork downstream to mouth - tributary of Left Fork of Holly River</u>  | <u>5.6</u>  |
| <u>KE-98-C-14</u>             | <u>FALL RUN</u>                    | <u>Entire length - tributary of Left Fork of Holly River</u>                                                                                    | <u>6.1</u>  |
| <u>Gauley River Watershed</u> |                                    |                                                                                                                                                 |             |
| <u>KG-19-G</u>                | <u>ANGLINS CREEK</u>               | <u>Headwaters downstream to approx. 1.0 mi. downstream of Sugargrove Creek at the confluence of an unnamed trib - tributary of Meadow River</u> | <u>12.8</u> |
| <u>KG-19-U-1</u>              | <u>BROWN CREEK</u>                 | <u>Begins with headwater forks downstream to mouth - tributary of Big Clear Creek of Meadow River</u>                                           | <u>3.2</u>  |
| <u>KG-19-U-2-C</u>            | <u>OLD FIELD BRANCH</u>            | <u>Entire length - tributary of South Fork of Big Clear Creek of Meadow River</u>                                                               | <u>2.9</u>  |
| <u>KG-19-U-2-D</u>            | <u>JOB KNOB BRANCH</u>             | <u>Entire length - tributary of South Fork of Big Clear Creek of Meadow River</u>                                                               | <u>3.8</u>  |
| <u>KG-19-V-7</u>              | <u>KUHN BRANCH</u>                 | <u>Entire length - tributary of Little Clear Creek of Meadow River of Gauley River</u>                                                          | <u>1.9</u>  |
| <u>KG-20</u>                  | <u>COLLISON CREEK</u>              | <u>Entire length - tributary of Gauley River</u>                                                                                                | <u>6.1</u>  |
| <u>KG-24-E-2</u>              | <u>BRUSHY MEADOW CREEK</u>         | <u>Begins with headwater forks downstream to mouth - tributary of Grassy Creek of Hominy Creek</u>                                              | <u>5.2</u>  |
| <u>KG-24-H.8</u>              | <u>PRICE FORK</u>                  | <u>Entire length - tributary of Hominy Creek of Gauley River</u>                                                                                | <u>2.8</u>  |
| <u>KG-32-J</u>                | <u>CRANES NEST RUN</u>             | <u>Entire length - tributary of Panther Creek of Gauley River</u>                                                                               | <u>2.3</u>  |
| <u>KG-34-B</u>                | <u>COAL SIDING RUN</u>             | <u>Begins with headwater forks downstream to mouth - tributary of Cherry River</u>                                                              | <u>1.5</u>  |
| <u>KG-34-E</u>                | <u>LAUREL CREEK/CHERRY RIVER</u>   | <u>From Headwaters downstream to McMillion Ck - tributary of</u>                                                                                | <u>9.2</u>  |

|                   |                                 |                                                                                                                               |             |
|-------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------|
| <u>KG-34-E-11</u> | <u>MIDDLE BRANCH</u>            | <u>Cherry River</u>                                                                                                           |             |
| <u>KG-34-E-13</u> | <u>COLD SPRING BRANCH</u>       | <u>Entire length - tributary of Laurel Creek of Cherry River</u>                                                              | <u>3.3</u>  |
| <u>KG-34-E-8</u>  | <u>BEECH RUN</u>                | <u>Entire length - tributary of Laurel Creek of Cherry River</u>                                                              | <u>3.1</u>  |
| <u>KG-34-E-9</u>  | <u>HOGCAMP RUN</u>              | <u>Entire length - tributary of Laurel Creek of Cherry River</u>                                                              | <u>3.1</u>  |
| <u>KG-34-F</u>    | <u>LITTLE LAUREL CREEK</u>      | <u>Entire length - tributary of Laurel Creek of Cherry River</u>                                                              | <u>2.6</u>  |
| <u>KG-34-G</u>    | <u>SOUTH FORK CHERRY RIVER</u>  | <u>Entire length - tributary of Cherry River</u>                                                                              | <u>9.9</u>  |
|                   |                                 | <u>Headwaters downstream to Rocky Run - tributary of Cherry River of Gauley River</u>                                         | <u>9.2</u>  |
| <u>KG-34-G-10</u> | <u>COLD KNOB FORK</u>           | <u>Entire length - tributary of South Fork of Cherry River of Gauley River</u>                                                | <u>5.6</u>  |
| <u>KG-34-G-6</u>  | <u>ROCKY RUN</u>                | <u>From confluence of headwater forks downstream to mouth - tributary of South Fork of Cherry River of Gauley River</u>       | <u>3.5</u>  |
| <u>KG-34-G-13</u> | <u>BIG RUN</u>                  | <u>Entire length - tributary of South Fork of Cherry River</u>                                                                | <u>1.4</u>  |
| <u>KG-34-G-5</u>  | <u>ELKLICK RUN</u>              | <u>Entire length - tributary of South Fork of Cherry River</u>                                                                | <u>2.1</u>  |
| <u>KG-34-G-8</u>  | <u>BECKY RUN</u>                | <u>Entire length - tributary of South Fork of Cherry River</u>                                                                | <u>2.6</u>  |
| <u>KG-34-H</u>    | <u>NORTH FORK/CHERRY RIVER</u>  | <u>Entire length - tributary of Cherry River</u>                                                                              | <u>16.3</u> |
| <u>KG-34-H-14</u> | <u>BEAR RUN</u>                 | <u>Entire length - tributary of North Fork of Cherry River</u>                                                                | <u>2.2</u>  |
| <u>KG-34-H-4</u>  | <u>HUNTERS RUN</u>              | <u>Entire length - tributary of North Fork of Cherry River</u>                                                                | <u>3.1</u>  |
| <u>KG-34-H-5</u>  | <u>COATS RUN</u>                | <u>Entire length downstream of Summit Lake - tributary of North Fork Cherry</u>                                               | <u>1.1</u>  |
| <u>KG-34-H-9</u>  | <u>ARMSTRONG RUN</u>            | <u>Entire length - tributary of North Fork of Cherry River</u>                                                                | <u>1.2</u>  |
| <u>KG-45</u>      | <u>BIG LAUREL CREEK</u>         | <u>Entire length - tributary of the Gauley River</u>                                                                          | <u>6.6</u>  |
| <u>KG-57</u>      | <u>MILLER MILL RUN</u>          | <u>Entire length - tributary of the Gauley River</u>                                                                          | <u>4.4</u>  |
| <u>KG-59</u>      | <u>BIG RUN</u>                  | <u>Entire length - tributary of the Gauley River</u>                                                                          | <u>2.2</u>  |
| <u>KG-60</u>      | <u>TURKEY CREEK</u>             | <u>Entire length - tributary of Gauley River</u>                                                                              | <u>4.9</u>  |
| <u>KG-67</u>      | <u>STRAIGHT CREEK</u>           | <u>Begins with headwater forks downstream to mouth - tributary of Gauley River</u>                                            | <u>2.7</u>  |
| <u>KG-70</u>      | <u>BIG RUN/GAULEY RIVER</u>     | <u>Entire length - tributary of the Gauley River</u>                                                                          | <u>4.1</u>  |
| <u>KG-72</u>      | <u>MIDDLE FORK/GAULEY RIVER</u> | <u>Entire length - tributary of the Gauley River</u>                                                                          | <u>3</u>    |
| <u>KGC</u>        | <u>CRANBERRY RIVER</u>          | <u>Section from the South Fork shelter (between Red Run and Lost Run) downstream to mouth - tributary of the Gauley River</u> | <u>26.6</u> |
| <u>KGC-14</u>     | <u>LICK BRANCH</u>              | <u>Entire length - tributary of Cranberry River of Gauley River</u>                                                           | <u>1.2</u>  |
| <u>KGC-15</u>     | <u>HANGING ROCK BRANCH</u>      | <u>Entire length - tributary of Cranberry River of Gauley River</u>                                                           | <u>1.2</u>  |
| <u>KGC-19</u>     | <u>DOGWAY FORK</u>              | <u>Entire length - tributary of Cranberry River of Gauley River</u>                                                           | <u>8.8</u>  |
| <u>KGC-21</u>     | <u>BIRCHLOG RUN</u>             | <u>Entire length - tributary of Cranberry River of Gauley River</u>                                                           | <u>2.2</u>  |
| <u>KGC-3</u>      | <u>JAKEMAN RUN</u>              | <u>Entire length - tributary of Cranberry River of Gauley River</u>                                                           | <u>3.2</u>  |
| <u>KGC-4</u>      | <u>BARRENSHEE RUN</u>           | <u>Entire length - tributary of Cranberry River of Gauley River</u>                                                           | <u>4.6</u>  |
| <u>KGC-7</u>      | <u>BEE RUN</u>                  | <u>Entire length - tributary of Cranberry River of Gauley River</u>                                                           | <u>2.2</u>  |

|                 |                                 |                                                                                         |             |
|-----------------|---------------------------------|-----------------------------------------------------------------------------------------|-------------|
| <u>KGC-8</u>    | <u>FOXTREE RUN</u>              | <u>Entire length - tributary of Cranberry River of Gauley River</u>                     | <u>2.3</u>  |
| <u>KGC-9</u>    | <u>ALDRICH BRANCH</u>           | <u>Entire length - tributary of Cranberry River of Gauley River</u>                     | <u>2.2</u>  |
| <u>KGW</u>      | <u>WILLIAMS RIVER</u>           | <u>Tributary of the Gauley River - section from Lick Branch upstream to headwaters.</u> | <u>23.2</u> |
| <u>KGW-1</u>    | <u>CRAIG RUN</u>                | <u>Entire length - tributary of Williams River of Gauley River</u>                      | <u>2.7</u>  |
| <u>KGW-19</u>   | <u>UPPER BANNOCK SHOALS RUN</u> | <u>Entire length - tributary of Williams River of Gauley River</u>                      | <u>1.8</u>  |
| <u>KGW-2</u>    | <u>JONATHAN RUN</u>             | <u>Entire length - tributary of Williams River of Gauley River</u>                      | <u>1.4</u>  |
| <u>KGW-20</u>   | <u>TEA CREEK</u>                | <u>Entire length - tributary of Williams River of Gauley River</u>                      | <u>6</u>    |
| <u>KGW-20-A</u> | <u>LICK CREEK</u>               | <u>Entire length - tributary of Tea Creek of Williams River of Gauley River</u>         | <u>1.8</u>  |
| <u>KGW-21</u>   | <u>SUGAR CREEK</u>              | <u>Entire length - tributary of Williams River of Gauley River</u>                      | <u>3.6</u>  |
| <u>KGW-22</u>   | <u>LITTLE LAUREL CREEK</u>      | <u>Entire length - tributary of Williams River of Gauley River</u>                      | <u>2.5</u>  |
| <u>KGW-25</u>   | <u>DAY RUN</u>                  | <u>Entire length - tributary of Williams River of Gauley River</u>                      | <u>3.1</u>  |
| <u>KGW-26</u>   | <u>BLACK MOUNTAIN RUN</u>       | <u>Entire length - tributary of Williams River of Gauley River</u>                      | <u>1.7</u>  |
| <u>KGW-27</u>   | <u>MOUNTAIN LICK RUN</u>        | <u>Entire length - tributary of Williams River of Gauley River</u>                      | <u>2.1</u>  |
| <u>KGW-3</u>    | <u>SAWYER RUN</u>               | <u>Entire length - tributary of Williams River of Gauley River</u>                      | <u>1.3</u>  |
| <u>KGW-4</u>    | <u>SPICE RUN</u>                | <u>Entire length - tributary of Williams River of Gauley River</u>                      | <u>1.8</u>  |
| <u>KGW-8</u>    | <u>WHITE OAK FORK</u>           | <u>Entire length - tributary of Williams River of Gauley River</u>                      | <u>2.7</u>  |
| <u>KGW-9</u>    | <u>LICK BRANCH</u>              | <u>Entire length - tributary of Williams River of Gauley River</u>                      | <u>1.4</u>  |

#### New River Watershed

|                 |                           |                                                                                                                                                                                            |            |
|-----------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <u>KN-17</u>    | <u>MANNS CREEK</u>        | <u>Entire length within Babcock State park Boundaries</u>                                                                                                                                  | <u>5.2</u> |
| <u>KN-23</u>    | <u>BUFFALO CREEK</u>      | <u>From mouth upstream approx 2.5 mi. to headwater forks - tributary of (Lower) New River</u>                                                                                              | <u>2.4</u> |
| <u>KN-24</u>    | <u>SLATER CREEK</u>       | <u>Section within New River Gorge Nat. River - tributary of (Lower) New River</u>                                                                                                          | <u>0.8</u> |
| <u>KN-27-C</u>  | <u>CHESTNUT KNOB FORK</u> | <u>Entire length - tributary of Laurel Creek of (Lower) New River</u>                                                                                                                      | <u>3.5</u> |
| <u>KN-32</u>    | <u>MEADOW CREEK</u>       | <u>Section w/n New River Gorge National River that is upstream of Lefthand Fork) - tributary of (Lower) New River</u>                                                                      | <u>2.6</u> |
| <u>KN-37</u>    | <u>FALL BRANCH</u>        | <u>Section w/n New River Gorge National River - tributary of (Lower) New River</u>                                                                                                         | <u>1.9</u> |
| <u>KN-51-Q</u>  | <u>TURKEY CREEK</u>       | <u>From headwater forks downstream to mouth - tributary of Indian Creek of (Upper) New River</u>                                                                                           | <u>9.2</u> |
| <u>KNB-13</u>   | <u>CAMP CREEK</u>         | <u>from HW downstream to confluence w/ Mash Fork</u>                                                                                                                                       | <u>9.3</u> |
| <u>KNB-13-D</u> | <u>MASH FORK</u>          | <u>Begins at confluence of Sugar Camp Branch downstream to the confluence of Marsh Fork approx. 0.89 mi. above mouth - tributary of Camp Creek of Bluestone River of (Lower) New River</u> | <u>2.9</u> |

## Greenbrier River

### Watershed

KNG-22.7-A-1-(S)

MILLIGAN CREEK

5.7

KNG-22-E-1-B

FLYNN CREEK

4.3

KNG-28-P-2

TWOMILE RUN

1.6

KNG-28-Q-1

LAUREL RUN / MEADOW CREEK

4.2

KNG-30-0.5A-1-A

BURNS RUN

4.1

KNG-49

SWAGO CREEK

3.8

KNG-53-G

BARCLAY RUN

1.7

KNG-53-H

DOUTHAT CREEK

9

KNG-60

LAUREL RUN / GREENBRIER R

3

KNG-66-D

SHOCK RUN

4.5

KNG-66-E-4

LEFT PRONG

3.3

KNG-68-A

NORTH FORK DEER CREEK

6

KNG-68-A-3

SUTTON RUN

3

KNG-68-A-4

TACKER FORK

2.5

KNG-68-A-5

BLACK RUN

2.4

KNG-68-A-6

ELLEBER RUN

3.1

KNG-68-A-6-A

GRIFFIN RUN

1.7

KNG-70

LEATHERBARK RUN

5.8

KNG-74

TROUT RUN

1.1

KNG-78

EAST FORK GREENBRIER RIVER

5.5

KNG-78-C

LITTLE RIVER / EAST FORK

6.3

GREENBRIER

Two segments - Northern segment begins near State Rt.60 (near Richlands) to "mouth" or where it sinks and; the entire second segment is included - located near boundary of Asbury/Lewisburg topo quads

Entire length (sinking creek) - to confluence w/ Sinking Ck.

Entire length - tributary of North Fork of Anthony Creek of Greenbrier River

Entire length - tributary of Meadow Creek of Anthony Creek of Greenbrier River

Entire length (sinking creek) - to confluence w/ Culverson Ck.

Entire length - tributary of Greenbrier River

Entire length - tributary of Knapps Creek of Greenbrier River

Entire length - tributary of Knapps Creek of Greenbrier R.

Entire length - tributary of Greenbrier R.

Entire length - tributary of Sittling Creek of Greenbrier River

Entire length - tributary of Galford Run of Sittling Creek of Greenbrier River

Tributary of Deer Creek of Greenbrier River - section from headwaters downstream to Sutton Run

Entire length - tributary of North Fork of Deer Creek of Greenbrier River

Entire length - tributary of North Fork of Deer Creek of Greenbrier River

Entire length - tributary of North Fork of Deer Creek of Greenbrier River

Entire length - tributary of North Fork of Deer Creek of Greenbrier River

Entire length - tributary of Elleber Run of North Fork of Deer Creek of Greenbrier River

Entire length - tributary of Greenbrier River

Entire length - tributary of Greenbrier River

Entire length - tributary of Greenbrier River

uppermost 5.5 miles (above Abes Run) - Entire length - tributary of Greenbrier River

From headwaters to confluence of Buffalo Fork - tributary of East Fork of Greenbrier River

|                   |                                   |                                                                                              |             |
|-------------------|-----------------------------------|----------------------------------------------------------------------------------------------|-------------|
| <u>KNG-78-G</u>   | <u>FIVEMILE HOLLOW</u>            | <u>Entire length - tributary of East Fork of Greenbrier River</u>                            | <u>2.3</u>  |
| <u>KNG-78-H</u>   | <u>POCA RUN</u>                   | <u>Entire length - tributary of East Fork of Greenbrier River</u>                            | <u>3</u>    |
| <u>KNG-78-H-1</u> | <u>LONG RUN</u>                   | <u>Entire length - tributary of Poca Run of East Fork of Greenbrier River</u>                | <u>2.8</u>  |
| <u>KNG-78-K</u>   | <u>MULLENAX RUN</u>               | <u>Entire length - tributary of East Fork of Greenbrier River</u>                            | <u>2.9</u>  |
| <u>KNG-78-L</u>   | <u>ABES RUN</u>                   | <u>Entire length - tributary of East Fork of Greenbrier River</u>                            | <u>2.6</u>  |
| <u>KNG-79</u>     | <u>WEST FORK GREENBRIER RIVER</u> | <u>Entire length - tributary of Greenbrier River</u>                                         | <u>18.7</u> |
| <u>KNG-79-B</u>   | <u>FILL RUN</u>                   | <u>Entire length - tributary of West Fork of Greenbrier River</u>                            | <u>1.9</u>  |
| <u>KNG-79-C</u>   | <u>LITTLE RIVER</u>               | <u>From headwater forks downstream to mouth - tributary of West Fork of Greenbrier River</u> | <u>7.6</u>  |
| <u>KNG-79-C-1</u> | <u>SPAN OAK RUN</u>               | <u>Entire length - tributary of Little River of West Fork of Greenbrier River</u>            | <u>2.3</u>  |
| <u>KNG-79-C-2</u> | <u>CLUBHOUSE RUN</u>              | <u>Entire length - tributary of Little River of West Fork of Greenbrier River</u>            | <u>2.7</u>  |
| <u>KNG-79-C-3</u> | <u>HINKLE RUN</u>                 | <u>Entire length - tributary of Little River of West Fork of Greenbrier River</u>            | <u>2.6</u>  |

Little Kanawha River Watershed  
LK-131

|                                                          |          |
|----------------------------------------------------------|----------|
| <u>Entire length - tributary of Little Kanawha River</u> | <u>3</u> |
|----------------------------------------------------------|----------|

Cheat River Watershed  
MC-12-B-6

|                                                                                                              |            |
|--------------------------------------------------------------------------------------------------------------|------------|
| <u>Section from Headwaters downstream to unnamed tributary at Hazelton - tributary of Little Sandy Creek</u> | <u>3.5</u> |
|--------------------------------------------------------------------------------------------------------------|------------|

|              |                      |                                                                                   |          |
|--------------|----------------------|-----------------------------------------------------------------------------------|----------|
| <u>MC-18</u> | <u>ROARING CREEK</u> | <u>Section from headwaters downstream to 1.2 miles above mouth entering Cheat</u> | <u>8</u> |
|--------------|----------------------|-----------------------------------------------------------------------------------|----------|

|               |                       |                                                                                           |            |
|---------------|-----------------------|-------------------------------------------------------------------------------------------|------------|
| <u>MC-20</u>  | <u>ELSEY RUN</u>      | <u>Entire length - tributary of Cheat</u>                                                 | <u>3.4</u> |
| <u>MC-2-A</u> | <u>DARNELL HOLLOW</u> | <u>Section within Coopers Rock State Forest - tributary of Morgan Run of Cheat (Lake)</u> | <u>1.6</u> |

|                  |                    |                                                                                                   |            |
|------------------|--------------------|---------------------------------------------------------------------------------------------------|------------|
| <u>MC-33-A</u>   | <u>FLAG RUN</u>    | <u>Entire length - tributary to Buffalo Creek of Cheat</u>                                        | <u>5.5</u> |
| <u>MC-33-A-2</u> | <u>WATKINS RUN</u> | <u>Entire length - tributary of Flag Run</u>                                                      | <u>1.5</u> |
| <u>MC-36</u>     | <u>WOLF CREEK</u>  | <u>Tributary of Cheat - section from headwaters downstream to point 2 miles from Cheat River.</u> | <u>5</u>   |

|                |                            |                                                       |            |
|----------------|----------------------------|-------------------------------------------------------|------------|
| <u>MC-41</u>   | <u>LONG RUN</u>            | <u>Entire length - tributary of Cheat</u>             | <u>2.1</u> |
| <u>MC-45</u>   | <u>TOBES RUN</u>           | <u>Entire length - tributary of Cheat</u>             | <u>1.2</u> |
| <u>MC-46-B</u> | <u>RIGHT FORK BULL RUN</u> | <u>Entire length - tributary of Bull Run of Cheat</u> | <u>3.8</u> |

|                     |                              |                                                                                                                               |            |
|---------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------|
| <u>MC-51-A</u>      | <u>RIGHT FORK CLOVER RUN</u> | <u>Entire length - Rt Fork of Clover Run of Cheat</u>                                                                         | <u>5.5</u> |
| <u>MC-51-B</u>      | <u>LEFT FORK CLOVER RUN</u>  | <u>Entire length - tributary of Cheat</u>                                                                                     | <u>9.2</u> |
| <u>MC-51-B-5</u>    | <u>INDIAN RUN</u>            | <u>Entire length - Left Fork of Clover Run of Cheat</u>                                                                       | <u>4.2</u> |
| <u>MC-52</u>        | <u>MINEAR RUN</u>            | <u>Entire length - tributary of Cheat</u>                                                                                     | <u>4.3</u> |
| <u>MC-52-0.7A</u>   | <u>BRIDGE RUN</u>            | <u>Entire length - tributary of Minear Run of Cheat. Mainstem entirely on Pub Land</u>                                        | <u>1.1</u> |
| <u>MC-54</u>        | <u>HORSESHOE RUN</u>         | <u>Headwaters downstream to Laurel Run (MC-54-F) - tributary of Cheat</u>                                                     | <u>9.5</u> |
| <u>MC-54-A</u>      | <u>MIKE RUN</u>              | <u>Entire length - tributary of Horseshoe Run of Cheat. Mainstem entirely on Pub Land</u>                                     | <u>3.9</u> |
| <u>MC-54-C</u>      | <u>MAXWELL RUN</u>           | <u>Entire length - tributary of Horseshoe Run of Cheat</u>                                                                    | <u>2.9</u> |
| <u>MC-54-D</u>      | <u>HYLE RUN</u>              | <u>Entire length - tributary of Horseshoe Run of Cheat</u>                                                                    | <u>3.9</u> |
| <u>MC-54-E</u>      | <u>LICK DRAIN</u>            | <u>Entire length - tributary of Horseshoe Run of Cheat</u>                                                                    | <u>1.8</u> |
| <u>MC-54-G</u>      | <u>LYNN RUN</u>              | <u>Entire length - tributary of Horseshoe Run of Cheat</u>                                                                    | <u>1.3</u> |
| <u>MC-54-H</u>      | <u>THUNDERSTRUCK RUN</u>     | <u>Entire length - tributary of Horseshoe Run of Cheat</u>                                                                    | <u>3.9</u> |
| <u>MC-54-I</u>      | <u>LEADMINE RUN</u>          | <u>Entire length - tributary of Horseshoe Run of Cheat</u>                                                                    | <u>4.8</u> |
| <u>MC-54-K</u>      | <u>TWELVEMILE RUN</u>        | <u>Entire length - tributary of Horseshoe Run of Cheat</u>                                                                    | <u>2.2</u> |
| <u>MC-55</u>        | <u>DRY RUN</u>               | <u>Entire length - tributary of Cheat</u>                                                                                     | <u>3.2</u> |
| <u>MC-56</u>        | <u>MILL RUN</u>              | <u>Entire length - tributary of Cheat</u>                                                                                     | <u>2.7</u> |
| <u>MC-57</u>        | <u>WOLF RUN</u>              | <u>Entire length - tributary of Cheat</u>                                                                                     | <u>1.9</u> |
| <u>MC-60-D</u>      | <u>BLACKWATER RIVER</u>      | <u>Section from North Fork upstream approx. 2.6 miles to Blackwater Falls S.P. border.</u>                                    | <u>2.6</u> |
| <u>MC-60-G</u>      | <u>RED RUN</u>               | <u>Beginning at the North/South Forks downstream to edge of Forest boundary. 0.8 miles from mouth - tributary of Dry Fork</u> | <u>4.8</u> |
| <u>MC-60-K-1</u>    | <u>THREE SPRING RUN</u>      | <u>Entire length - tributary of Glady Fork of Dry Fork</u>                                                                    | <u>1.2</u> |
| <u>MC-60-K-11</u>   | <u>MCCRAY CREEK</u>          | <u>Entire length - tributary of Glady Fork of Dry Fork</u>                                                                    | <u>2.4</u> |
| <u>MC-60-K-14</u>   | <u>DANIELS CREEK</u>         | <u>Entire length - tributary of Glady Fork of Dry Fork</u>                                                                    | <u>3.2</u> |
| <u>MC-60-K-16</u>   | <u>WEST FORK GLADY FORK</u>  | <u>From headwaters downstream to 2.0 miles from confluence w/ East Fork - tributary of Glady Fork of Dry Fork</u>             | <u>4.1</u> |
| <u>MC-60-K-17</u>   | <u>EAST FORK GLADY FORK</u>  | <u>Section upstream of Louk Run - tributary of Glady Fork</u>                                                                 | <u>4.8</u> |
| <u>MC-60-K-17-A</u> | <u>LOUK RUN</u>              | <u>Entire length - tributary of East Fork of Glady Fork of Dry Fork</u>                                                       | <u>1.2</u> |
| <u>MC-60-K-2</u>    | <u>PANTHER CAMP RUN</u>      | <u>Entire length - tributary of Glady Fork of Dry Fork</u>                                                                    | <u>1.7</u> |
| <u>MC-60-K-2-A</u>  | <u>HOG RUN</u>               | <u>Entire length - tributary of Panther Camp Run of Glady Fork of Dry Fork</u>                                                | <u>1.2</u> |
| <u>MC-60-K-4</u>    | <u>FIVE LICK CREEK</u>       | <u>Entire length - tributary of Glady Fork of Dry Fork</u>                                                                    | <u>1.7</u> |
| <u>MC-60-K-5</u>    | <u>WOODFORD RUN</u>          | <u>Entire length - tributary of Glady Fork of Dry Fork</u>                                                                    | <u>1.1</u> |
| <u>MC-60-K-6</u>    | <u>BAKER CAMP RUN</u>        | <u>Entire length - tributary of Glady Fork of Dry Fork</u>                                                                    | <u>1.2</u> |
| <u>MC-60-N-4</u>    | <u>BEAVERDAM RUN</u>         | <u>Headwaters downstream to confluence of unnamed tributary -</u>                                                             | <u>2.1</u> |



|                    |                                    |                                                                                                                                                            |             |
|--------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <u>MT-18-E-4-B</u> | <u>FROG RUN</u>                    | <u>Entire length - tributary of Right Fork of Little Sandy Creek of Sandy Creek of Tygart Valley</u>                                                       | <u>3.4</u>  |
| <u>MT-44</u>       | <u>MATHIUS RUN</u>                 | <u>Entire length - tributary of Tygart Valley</u>                                                                                                          | <u>1.7</u>  |
| <u>MT-45-C</u>     | <u>RIGHT FORK CHENOWETH CREEK</u>  | <u>Entire length - tributary of Chenoweth Creek of Tygart Valley</u>                                                                                       | <u>3.2</u>  |
| <u>MT-47</u>       | <u>BEAVER CREEK</u>                | <u>Entire length - tributary of Tygart Valley</u>                                                                                                          | <u>6.2</u>  |
| <u>MT-50-A</u>     | <u>RIGHT FORK FILES CREEK</u>      | <u>Entire length - tributary of Files Creek of Tygart Valley</u>                                                                                           | <u>8.3</u>  |
| <u>MT-50-A-1</u>   | <u>LIMEKILN RUN</u>                | <u>Entire length - tributary of Right Fork of Files Creek of Tygart Valley</u>                                                                             | <u>2.1</u>  |
| <u>MT-50-B</u>     | <u>LEFT FORK FILES CREEK</u>       | <u>Confluence of Hill Run downstream to mouth - tributary of Files Creek of Tygart Valley</u>                                                              | <u>2.8</u>  |
| <u>MT-61</u>       | <u>SHAVERS RUN</u>                 | <u>Entire length - tributary of Tygart Valley</u>                                                                                                          | <u>7</u>    |
| <u>MT-64</u>       | <u>MILL CREEK</u>                  | <u>Begins with headwater forks downstream to confluence of unnamed trib approx. 0.47 mi. above the confluence of Buck Run - tributary of Tygart Valley</u> | <u>10.7</u> |
| <u>MT-64-C</u>     | <u>GLADE RUN</u>                   | <u>Entire length - tributary of Mill Creek of Tygart Valley</u>                                                                                            | <u>1.6</u>  |
| <u>MT-64-E</u>     | <u>MEATBOX RUN</u>                 | <u>Entire length - tributary of Mill Creek of Tygart Valley</u>                                                                                            | <u>1.2</u>  |
| <u>MT-64-F</u>     | <u>POTATOHOLE RUN</u>              | <u>Entire length - tributary of Mill Creek of Tygart Valley</u>                                                                                            | <u>1.8</u>  |
| <u>MT-66</u>       | <u>RIFFLE CREEK</u>                | <u>Headwaters downstream to confluence of McGee Run - tributary of Tygart Valley</u>                                                                       | <u>1.9</u>  |
| <u>MT-66-B</u>     | <u>MCGEE RUN</u>                   | <u>Entire length - tributary of Riffle Creek Tygart Valley</u>                                                                                             | <u>3.4</u>  |
| <u>MT-66-C</u>     | <u>BACK FORK</u>                   | <u>Entire length - tributary of Riffle Creek Tygart Valley</u>                                                                                             | <u>2</u>    |
| <u>MT-67</u>       | <u>RAFE RUN</u>                    | <u>Entire length - tributary of Tygart Valley</u>                                                                                                          | <u>1.5</u>  |
| <u>MT-68</u>       | <u>BECKY CREEK</u>                 | <u>from CR 56 bridge upstream</u>                                                                                                                          | <u>7.5</u>  |
| <u>MT-68-A</u>     | <u>BIG BRANCH</u>                  | <u>Entire length - tributary of Becky Creek of Tygart Valley</u>                                                                                           | <u>2.3</u>  |
| <u>MT-72</u>       | <u>HAMILTON RUN</u>                | <u>Entire length - tributary of Tygart Valley</u>                                                                                                          | <u>2.5</u>  |
| <u>MT-73</u>       | <u>CLAY RUN</u>                    | <u>Entire length - tributary of Tygart Valley</u>                                                                                                          | <u>2.6</u>  |
| <u>MT-74</u>       | <u>ELKWATER FORK</u>               | <u>Headwaters downstream to confluence of Mowry Run - tributary of Tygart Valley</u>                                                                       | <u>5.2</u>  |
| <u>MT-74-A</u>     | <u>MOWRY RUN</u>                   | <u>Entire length - tributary of Elkwater Fork of Tygart Valley</u>                                                                                         | <u>2.3</u>  |
| <u>MT-74-B</u>     | <u>LIMEKILN RUN</u>                | <u>Entire length - tributary of Elkwater Fork of Tygart Valley</u>                                                                                         | <u>1.9</u>  |
| <u>MT-75</u>       | <u>STEWART RUN</u>                 | <u>Entire length - tributary of Tygart Valley</u>                                                                                                          | <u>8.1</u>  |
| <u>MT-77</u>       | <u>CONLEY RUN</u>                  | <u>Entire length - tributary of Tygart Valley</u>                                                                                                          | <u>4.3</u>  |
| <u>MT-78</u>       | <u>RALSTON RUN</u>                 | <u>Entire length - tributary of Tygart Valley</u>                                                                                                          | <u>7</u>    |
| <u>MT-79</u>       | <u>WINDY RUN</u>                   | <u>Entire length - tributary of Tygart Valley</u>                                                                                                          | <u>4.6</u>  |
| <u>MT-80</u>       | <u>LOGAN RUN</u>                   | <u>Entire length - tributary of Tygart Valley</u>                                                                                                          | <u>2.5</u>  |
| <u>MT-81</u>       | <u>BIG RUN</u>                     | <u>Entire length - tributary of Tygart Valley</u>                                                                                                          | <u>5.1</u>  |
| <u>MTB-28</u>      | <u>BIG RUN</u>                     | <u>Entire length - tributary of Buckhannon of Tygart Valley</u>                                                                                            | <u>4.7</u>  |
| <u>MTB-31</u>      | <u>RIGHT FORK BUCKHANNON RIVER</u> | <u>From headwaters downstream to UNT at Pickens</u>                                                                                                        | <u>2.1</u>  |

|                                   |                           |                                                                                                                                                             |            |
|-----------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <u>MTB-31-B</u>                   | <u>REGER RUN</u>          | <u>Entire length - tributary of Right Fork of Buckhannon of Tygart Valley</u>                                                                               | <u>1.1</u> |
| <u>MTB-31-C</u>                   | <u>ALEC RUN</u>           | <u>Entire length - tributary of Right Fork of Buckhannon of Tygart Valley</u>                                                                               | <u>1.9</u> |
| <u>MTB-31-D</u>                   | <u>MILLSITE RUN</u>       | <u>Entire length - tributary of Right Fork of Buckhannon of Tygart Valley</u>                                                                               | <u>3.8</u> |
| <u>MTM</u>                        | <u>MIDDLE FORK RIVER</u>  | <u>Begins at confluence of Birch Fork (at Adolph) downstream to confluence of Cassity Fork - tributary of Tygart Valley</u>                                 | <u>7.3</u> |
| <u>MTM-11-D</u>                   | <u>JACKSON FORK</u>       | <u>Entire length - tributary of Right Fork of Middle Fork of Tygart Valley</u>                                                                              | <u>3.9</u> |
| <u>MTM-16</u>                     | <u>CASSITY FORK</u>       | <u>Headwaters downstream to confluence of Mulberry Fork - tributary of Middle Fork of Tygart Valley</u>                                                     | <u>4.2</u> |
| <u>MTM-16-A</u>                   | <u>PANTHER RUN</u>        | <u>Headwaters downstream to confluence of an unnamed tributary approx. 0.64 mi. above mouth - tributary of Cassity Fork of Middle Fork of Tygart Valley</u> | <u>4.4</u> |
| <u>MTM-21</u>                     | <u>PLEASANT RUN</u>       | <u>Entire length - tributary of Middle Fork of Tygart Valley</u>                                                                                            | <u>1.8</u> |
| <u>MTM-22</u>                     | <u>LAUREL RUN</u>         | <u>Entire length - tributary of Middle Fork of Tygart Valley</u>                                                                                            | <u>2.6</u> |
| <u>MTM-23</u>                     | <u>LAUREL BRANCH</u>      | <u>Entire length - tributary of Middle Fork of Tygart Valley</u>                                                                                            | <u>4</u>   |
| <u>MTM-24</u>                     | <u>SUGAR RUN</u>          | <u>Entire length - tributary of Middle Fork of Tygart Valley</u>                                                                                            | <u>2.3</u> |
| <u>MTM-25</u>                     | <u>SCHOOLCRAFT RUN</u>    | <u>Entire length - tributary of Middle Fork of Tygart Valley</u>                                                                                            | <u>3.1</u> |
| <u>MTM-26</u>                     | <u>BIRCH FORK</u>         | <u>Begins at confluence of Sugar Drain downstream - tributary of Middle Fork of Tygart Valley</u>                                                           | <u>3.6</u> |
| <u>MTM-27</u>                     | <u>MITCHELL LICK FORK</u> | <u>Entire length - tributary of Middle Fork of Tygart Valley</u>                                                                                            | <u>2.5</u> |
| <u>Upper Ohio North</u>           |                           |                                                                                                                                                             |            |
| <u>O-102-A</u>                    | <u>WHITEOAK RUN</u>       | <u>Section of White Oak Run (including forks) w/in Tomlinson Run S.P. - tributary of Tomlinson Run of Ohio River</u>                                        | <u>0.5</u> |
| <u>Twelvepole Creek Watershed</u> |                           |                                                                                                                                                             |            |
| <u>O-2-H-2-A</u>                  | <u>STOWERS BRANCH</u>     | <u>Begins with headwater forks downstream to entering Beech Fork Lake - tributary of Beech Fork of Twelvepole Creek</u>                                     | <u>1</u>   |
| <u>O-2-P-23</u>                   | <u>ARKANSAS BRANCH</u>    | <u>Entire length - tributary of West Fork of Twelvepole Creek</u>                                                                                           | <u>2</u>   |
| <u>O-2-P-25</u>                   | <u>SWEETWATER BRANCH</u>  | <u>Entire length w/in Cabwaylingo S.P. - tributary of West Fork of Twelvepole Creek</u>                                                                     | <u>0.9</u> |
| <u>O-2-P-26</u>                   | <u>LONG BRANCH</u>        | <u>Entire length - tributary of West Fork of Twelvepole Creek</u>                                                                                           | <u>2.6</u> |
| <u>O-2-P-27</u>                   | <u>SPRUCE FORK</u>        | <u>Entire length - tributary of West Fork of Twelvepole Creek</u>                                                                                           | <u>1.8</u> |
| <u>O-2-Q-14</u>                   | <u>RICH CREEK</u>         | <u>The section of Rich Creek w/in East Lynn Lake WMA - tributary of East Fork of Twelvepole Creek</u>                                                       | <u>1.3</u> |

|                                             |                              |                                                                                                                                                                                                        |             |
|---------------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <u>O-2-Q-16</u>                             | <u>BLUELICK BRANCH</u>       | <u>Entire length to East Lynn Lake - tributary of East Fork of Twelvepole Creek</u>                                                                                                                    | <u>2.3</u>  |
| <u>Guyandotte River Watershed</u>           |                              |                                                                                                                                                                                                        |             |
| <u>OG-102</u>                               | <u>BRICKLE BRANCH</u>        | <u>Entire length - tributary of Guyandotte River</u>                                                                                                                                                   | <u>1.6</u>  |
| <u>OG-29-C</u>                              | <u>HORSESHOE BRANCH</u>      | <u>Entire length - tributary of Sixmile of Guyandotte River</u>                                                                                                                                        | <u>1</u>    |
| <u>OG-38-D</u>                              | <u>LAUREL CREEK</u>          | <u>Headwaters downstream to unnamed tributary between Doss Fork and Chestnut Oak Creek</u>                                                                                                             | <u>1.6</u>  |
| <u>OG-61</u>                                | <u>BUFFALO CREEK</u>         | <u>Entire length of stream that is w/n Chief Logan S.P. - tributary of Guyandotte River</u>                                                                                                            | <u>2.8</u>  |
| <u>OG-96-A</u>                              | <u>STURGEON BRANCH</u>       | <u>Entire length - tributary of Big Run Creek to Guyandotte River</u>                                                                                                                                  | <u>1.6</u>  |
| <u>OGM-8-B</u>                              | <u>LEFT FORK MILL CREEK</u>  | <u>Begins with headwater forks downstream to approx. 0.93 mi. upstream of the convergence of the Left Fork and Right Fork of Mill Creek - tributary of Mill Creek of Mud River of Guyandotte River</u> | <u>2.7</u>  |
| <u>Potomac Direct Drains Watershed</u>      |                              |                                                                                                                                                                                                        |             |
| <u>P-9-G-2</u>                              | <u>SOUTH FORK INDIAN RUN</u> | <u>Entire length - tributary of Indian Creek</u>                                                                                                                                                       | <u>3.8</u>  |
| <u>Cacapon River Watershed</u>              |                              |                                                                                                                                                                                                        |             |
| <u>PC-0.9</u>                               | <u>CONNER HOLLOW</u>         | <u>Entire length - tributary of Cacapon</u>                                                                                                                                                            | <u>3.8</u>  |
| <u>PC-1</u>                                 | <u>CONSTANT RUN</u>          | <u>Entire length - tributary of Cacapon</u>                                                                                                                                                            | <u>2.6</u>  |
| <u>PC-10</u>                                | <u>EDWARDS RUN</u>           | <u>Headwaters downstream to about 0.9 mi. from mouth - tributary of Cacapon</u>                                                                                                                        | <u>7</u>    |
| <u>PC-17</u>                                | <u>HAWK RUN</u>              | <u>Entire length - tributary of Cacapon</u>                                                                                                                                                            | <u>4.6</u>  |
| <u>PC-23</u>                                | <u>TROUT RUN</u>             | <u>Entire length - tributary of Cacapon</u>                                                                                                                                                            | <u>16.6</u> |
| <u>PC-24-H</u>                              | <u>LOWER COVE RUN</u>        | <u>Entire length - tributary of Lost River of Cacapon</u>                                                                                                                                              | <u>4.6</u>  |
| <u>North Branch/Potomac River Watershed</u> |                              |                                                                                                                                                                                                        |             |
| <u>PNB-14</u>                               | <u>HOWELL RUN</u>            | <u>Entire length - tributary of North Branch Potomac</u>                                                                                                                                               | <u>3.8</u>  |
| <u>PNB-15</u>                               | <u>DEEP RUN</u>              | <u>Entire length - tributary of North Branch Potomac</u>                                                                                                                                               | <u>4.8</u>  |
| <u>PNB-15-A</u>                             | <u>CRANBERRY RUN</u>         | <u>Entire length - tributary of Deep Run of North Branch Potomac</u>                                                                                                                                   | <u>2.7</u>  |
| <u>South Branch/Potomac River Watershed</u> |                              |                                                                                                                                                                                                        |             |
| <u>PSB-13</u>                               | <u>MILL RUN</u>              | <u>Entire length - tributary of South Branch Potomac</u>                                                                                                                                               | <u>8.9</u>  |

|                      |                                |                                                                                                          |             |
|----------------------|--------------------------------|----------------------------------------------------------------------------------------------------------|-------------|
| <u>PSB-21-F</u>      | <u>DUMPLING RUN</u>            | <u>Beginning at the headwater forks to mouth - tributary of South Fork of South Branch Potomac</u>       | <u>2.6</u>  |
| <u>PSB-21-K</u>      | <u>ROUGH RUN</u>               | <u>Entire length - tributary of South Fork of South Branch Potomac</u>                                   | <u>6.9</u>  |
| <u>PSB-25-C-2</u>    | <u>SPRING RUN</u>              | <u>Entire length - tributary of South Mill Creek of Mill Creek of South Branch Potomac</u>               | <u>3</u>    |
| <u>PSB-28-A-1</u>    | <u>BIG RUN</u>                 | <u>Entire length - tributary of Jordan Run of North Fork of South Branch Potomac</u>                     | <u>2.6</u>  |
| <u>PSB-28-A-2</u>    | <u>LAUREL RUN / JORDAN RUN</u> | <u>Entire length - tributary of Jordan Run of North Fork of South Branch Potomac</u>                     | <u>3.2</u>  |
| <u>PSB-28-B</u>      | <u>SAMUEL RUN</u>              | <u>Entire length - tributary of North Fork of South Branch Potomac</u>                                   | <u>2.8</u>  |
| <u>PSB-28-C</u>      | <u>BROAD RUN</u>               | <u>Entire length - tributary of North Fork of South Branch Potomac</u>                                   | <u>2.4</u>  |
| <u>PSB-28-E</u>      | <u>HIGH RIDGE RUN</u>          | <u>Entire length - tributary of North Fork of South Branch Potomac</u>                                   | <u>2.3</u>  |
| <u>PSB-28-EE</u>     | <u>BIG RUN</u>                 | <u>Entire length - tributary of North Fork of South Branch Potomac</u>                                   | <u>12.8</u> |
| <u>PSB-28-EE-2</u>   | <u>SAWMILL BRANCH</u>          | <u>Entire length - tributary of North Fork of the South Branch Potomac</u>                               | <u>3.2</u>  |
| <u>PSB-28-EE-2-A</u> | <u>BACK RUN</u>                | <u>Entire length - tributary of Sawmill Branch of Big Run of North Fork of the South Branch Potomac</u>  | <u>3.4</u>  |
| <u>PSB-28-EE-3</u>   | <u>TEETER CAMP RUN</u>         | <u>Entire length - tributary of Big Run of North Fork of the South Branch Potomac</u>                    | <u>3.7</u>  |
| <u>PSB-28-EE-3-A</u> | <u>HEMLOCK RUN</u>             | <u>Entire length - tributary of Teeter Camp Run of Big Run of North Fork of the South Branch Potomac</u> | <u>1.9</u>  |
| <u>PSB-28-EE-3-B</u> | <u>LEONARD SPRING HOLLOW</u>   | <u>Entire length - tributary of Teeter Camp Run of Big Run of North Fork of the South Branch Potomac</u> | <u>1.2</u>  |
| <u>PSB-28-EE-3-C</u> | <u>MIDDLE RIDGE HOLLOW</u>     | <u>Entire length - tributary of Teeter Camp Run of Big Run of North Fork of the South Branch Potomac</u> | <u>1.2</u>  |
| <u>PSB-28-EE-3-D</u> | <u>BUD HOLLOW</u>              | <u>Entire length - tributary of Teeter Camp Run of Big Run of North Fork of the South Branch Potomac</u> | <u>0.9</u>  |
| <u>PSB-28-EE-4</u>   | <u>ELK RUN</u>                 | <u>Entire length - tributary of Big Run of North Fork of the South Branch Potomac</u>                    | <u>3.9</u>  |
| <u>PSB-28-G</u>      | <u>ZEKE RUN</u>                | <u>Entire length - tributary of North Fork of South Branch Potomac</u>                                   | <u>3.7</u>  |
| <u>PSB-28-GG-1</u>   | <u>VANCE RUN</u>               | <u>Entire length - tributary of Laurel Fork of North Fork of South Branch Potomac</u>                    | <u>3.3</u>  |
| <u>PSB-28-GG-1-A</u> | <u>SAMS RUN</u>                | <u>Entire length - tributary of Vance Run of Laurel Fork of North Fork of South Branch Potomac</u>       | <u>1.1</u>  |
| <u>PSB-28-GG-1-B</u> | <u>LITTLE LOW PLACE HOLLOW</u> | <u>Entire length - tributary of Vance Run of Laurel Fork of North Fork of South Branch Potomac</u>       | <u>1.1</u>  |
| <u>PSB-28-I</u>      | <u>POWDERMILL RUN</u>          | <u>Entire length - tributary of North Fork of South Branch Potomac</u>                                   | <u>2.8</u>  |
| <u>PSB-28-K</u>      | <u>SENECA CREEK</u>            | <u>Headwaters (Slab Camp Run) to mouth - tributary of North Fork of</u>                                  | <u>20.3</u> |

|                     |                       |                                                                                                                          |             |
|---------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------|-------------|
| <u>PSB-28-K-1</u>   | <u>BRUSHY RUN</u>     | <u>South Branch Potomac</u>                                                                                              | <u>7.8</u>  |
| <u>PSB-28-K-2</u>   | <u>ROARING CREEK</u>  | <u>Entire length - tributary of Seneca Creek</u>                                                                         | <u>6.1</u>  |
| <u>PSB-28-K-2-B</u> | <u>LONG RUN</u>       | <u>Entire length - tributary of Seneca Creek</u>                                                                         | <u>2.2</u>  |
|                     |                       | <u>Beginning at the N/S Forks downstream to mouth - tributary of Roaring Creek of Seneca Creek</u>                       |             |
| <u>PSB-28-K-3</u>   | <u>HORSECAMP RUN</u>  | <u>Headwaters to mouth - tributary of Seneca Creek</u>                                                                   | <u>4.1</u>  |
| <u>PSB-28-K-3-B</u> | <u>WAMSLEY RUN</u>    | <u>Entire length - tributary of Horsecamp Run of Seneca Creek</u>                                                        | <u>1.5</u>  |
| <u>PSB-28-K-4</u>   | <u>STRADER RUN</u>    | <u>Entire length - tributary of Seneca Creek</u>                                                                         | <u>2.6</u>  |
| <u>PSB-28-K-6</u>   | <u>WHITES RUN</u>     | <u>Entire length - tributary of Seneca Creek</u>                                                                         | <u>3.9</u>  |
| <u>PSB-28-K-6-B</u> | <u>UPPER GULF RUN</u> | <u>Entire length - tributary of Whites Run of Seneca Creek</u>                                                           | <u>2.7</u>  |
| <u>PSB-28-R</u>     | <u>BLIZZARD RUN</u>   | <u>Section from headwaters downstream to within 0.5 miles of mouth - tributary of North Fork of South Branch Potomac</u> | <u>3.1</u>  |
| <u>PSB-28-S</u>     | <u>BRIERY GAP RUN</u> | <u>Entire length - tributary of North Fork of South Branch Potomac</u>                                                   | <u>2.7</u>  |
| <u>PSB-28-T</u>     | <u>LAUREL RUN</u>     | <u>Entire length - tributary of North Fork of South Branch Potomac</u>                                                   | <u>2.7</u>  |
| <u>PSB-29</u>       | <u>REDMAN RUN</u>     | <u>Entire length - tributary of South Branch Potomac</u>                                                                 | <u>3.4</u>  |
| <u>PSB-30</u>       | <u>LONG RUN</u>       | <u>Entire length - tributary of South Branch Potomac</u>                                                                 | <u>2.9</u>  |
| <u>PSB-32</u>       | <u>BRIGGS RUN</u>     | <u>Entire length - tributary of South Branch Potomac</u>                                                                 | <u>4.6</u>  |
| <u>PSB-33</u>       | <u>REEDS CREEK</u>    | <u>Entire length - tributary of South Branch Potomac</u>                                                                 | <u>11.2</u> |
|                     |                       | <u>From headwater downstream to the convergence of Long Hollow - tributary of South Branch Potomac</u>                   |             |
| <u>PSB-47</u>       | <u>THORN CREEK</u>    | <u>Begins at forks of Blackthorn Creek and Whitethorn Creek to mouth - tributary of South Branch Potomac</u>             | <u>9.1</u>  |

Shenandoah River  
Watershed (Hardy County)  
SNF-1

CAPON RUN  
Headwater section downstream to Hunkerson Gap - Tributary of the Shenandoah River

2.2

**APPENDIX B**

**ANTIDEGRADATION IMPLEMENTATION PROCEDURES  
INTERGOVERNMENTAL COORDINATION AGENCIES**

**STATE AGENCIES**

**Bureau of Commerce**

Department of Natural Resources  
Division of Forestry  
Development Office

**Department of Health and Human Resources**

Bureau for Public Health

**Bureau of the Environment**

Department of Environmental Protection - all offices

**Department of Agriculture**

Soil Conservation Agency

Department of Transportation  
Division of Highways

FEDERAL AGENCIES

US Environmental Protection Agency, Region III  
US Fish and Wildlife Service  
US Army Corps of Engineers  
US Forest Service  
US Office of Surface Mining

APPENDIX G

Initial Presumptive Listing for Tier 2.5

| <u>DNR CODE</u>                                    | <u>STREAM NAME</u>        | <u>LENGTH (miles)</u> |
|----------------------------------------------------|---------------------------|-----------------------|
| <b>Fug Fork Watershed</b>                          |                           |                       |
| BST-60-D                                           | CUB BRANCH                | 0.72                  |
| BST-60-E                                           | GEORGE BRANCH             | 3.79                  |
| BST-60-F                                           | GRANE CREEK               | 1.22                  |
| BST-60-G                                           | HURRICANE BRANCH          | 2.99                  |
| BST-60-H-2                                         | WHITE OAK BRANCH          | 1.78                  |
| BST-70-N                                           | LITTLE SLATE CREEK        | 3.42                  |
| BST-70-U-1                                         | BIG BRANCH                | 1.86                  |
| BST-70-W                                           | JACOBS FORK               | 10.50                 |
| BST-70-Z                                           | VALL CREEK                | 2.31                  |
| BST-76-E                                           | DAYCAMP BRANCH            | 1.67                  |
| BST-99                                             | ELKHORN CREEK             | 8.41                  |
|                                                    |                           | 38.68 total miles     |
| <b>James River Watershed</b>                       |                           |                       |
| J-1-A                                              | EWING RUN                 | 2.64                  |
| J-1-C                                              | NORTH FORK                | 5.88                  |
| J-2                                                | SWEET SPRINGS CREEK       | 6.10                  |
| J-3                                                | GOVE CREEK                | 6.66                  |
|                                                    |                           | 21.27 total miles     |
| <b>Kanawha River Watershed (Upper &amp; Lower)</b> |                           |                       |
| K-13                                               | LITTLE SIXTEEN MILE CREEK | 4.45                  |

|          |                        |                   |
|----------|------------------------|-------------------|
| K-14-B-1 | UNT OF FIVEFORK BRANCH | 1.87              |
| K-39-E-3 | BAYS BRANCH            | 1.89              |
| K-39-M-1 | HOFFMAN HOLLOW         | 2.32              |
| K-39-O   | SHREWSBURY HOLLOW      | 1.54              |
| K-76     | LOOP CREEK             | 19.98             |
|          |                        | 32.06 total miles |

#### Goat River Watershed

|          |                  |                   |
|----------|------------------|-------------------|
| KG-10-22 | WHITE OAK BRANCH | 2.08              |
| KG-31-B  | HOPKINS FORK     | 8.95              |
|          |                  | 11.03 total miles |

#### Elk River Watershed

|            |                    |       |
|------------|--------------------|-------|
| KE         | ELK RIVER          | 5.00  |
| KE-102-A   | CAMP CREEK         | 14.19 |
| KE-111-K   | SUGAR CREEK        | 10.51 |
| KE-111-K-2 | LITTLE SUGAR CREEK | 7.61  |
| KE-117-B   | RIGHT FORK         | 13.60 |
| KE-118     | BERGOO CREEK       | 8.19  |
| KE-127     | BIG RUN            | 2.53  |
| KE-129     | VALLEY FORK        | 2.68  |
| KE-133     | DRY FORK           | 3.80  |
| KE-135     | BIG RUN            | 1.94  |
| KE-136     | PROPS RUN          | 1.38  |
| KE-137     | LAUREL RUN         | 2.63  |
| KE-138     | BIG SPRING FORK    | 9.67  |
| KE-138-B   | CUP RUN            | 2.02  |
| KE-139-5A  | SLATY FORK         | 4.79  |
| KE-139-B   | CROOKED FORK       | 2.51  |
| KE-14-P    | PANTHER HOLLOW     | 1.55  |
| KE-50-B-10 | IKE FORK           | 1.88  |
| KE-50-I    | ROCKCAMP RUN       | 6.66  |
| KE-76-L-5  | TUG FORK           | 3.83  |
| KE-76-O    | POPLAR CREEK       | 6.29  |
| KE-76-U    | JOHNSON BRANCH     | 2.44  |
| KE-98-B-16 | DESERT FORK        | 4.97  |
| KE-98-C    | LEFT FORK          | 5.73  |
| KE-98-C-1  | LAURELPATCH RUN    | 1.51  |
| KE-98-C-11 | LAUREL FORK        | 5.59  |
| KE-98-G-14 | FALL RUN           | 6.06  |

|             |           |                    |
|-------------|-----------|--------------------|
| KE-98-G-15  | BIG RUN   | 3.79               |
| KE-98-G-1-A | LONG FORK | 2.56               |
|             |           | 145.90 total miles |

#### Gauley River Watershed

|             |                     |       |
|-------------|---------------------|-------|
| KG          | GAULEY RIVER        | 26.56 |
| KG-19-A     | DOGWOOD CREEK       | 5.08  |
| KG-19-G     | ANGLING CREEK       | 12.77 |
| KG-19-J     | BRACKENS CREEK      | 6.55  |
| KG-19-U-1   | BROWN CREEK         | 3.19  |
| KG-19-U-2-C | OLD FIELD BRANCH    | 2.88  |
| KG-19-U-2-D | JOB KNOB BRANCH     | 3.85  |
| KG-19-V-5   | LAUREL CREEK        | 3.61  |
| KG-19-V-7   | KUHN BRANCH         | 1.91  |
| KG-20       | COLLISON CREEK      | 4.98  |
| KG-24       | HOMINY CREEK        | 23.40 |
| KG-24-E     | GRASSY CREEK        | 5.68  |
| KG-24-E-2   | BRUSHY MEADOW CREEK | 5.23  |
| KG-24-J     | PRICE FORK          | 2.83  |
| KG-26-K     | BRUSHY FORK         | 5.53  |
| KG-32-J     | CRANES NEST RUN     | 2.26  |
| KG-34-B     | COAL SIDING RUN     | 1.50  |
| KG-34-E     | LAUREL CREEK        | 9.18  |
| KG-34-E-11  | MIDDLE BRANCH       | 3.34  |
| KG-34-E-13  | COLD SPRING BRANCH  | 1.71  |
| KG-34-E-3   | SPRING RUN          | 1.52  |
| KG-34-E-8   | BEECH RUN           | 3.08  |
| KG-34-E-9   | HOGGAMP RUN         | 2.55  |
| KG-34-F     | LITTLE LAUREL CREEK | 9.87  |
| KG-34-F-2   | IMPROVEMENT BRANCH  | 1.86  |
| KG-34-G     | SOUTH FORK          | 7.21  |
| KG-34-G-10  | GOLD KNOB FORK      | 5.60  |
| KG-34-G-13  | BIG RUN             | 1.44  |
| KG-34-G-5   | ELKICK RUN          | 2.10  |
| KG-34-G-6   | ROCKY RUN           | 3.54  |
| KG-34-G-8   | BEGKY RUN           | 2.56  |
| KG-34-H     | NORTH FORK          | 16.37 |
| KG-34-H-14  | BEAR RUN            | 2.21  |
| KG-34-H-4   | HUNTERS RUN         | 3.09  |
| KG-34-H-5   | COATS RUN           | 1.08  |

|           |                          |       |
|-----------|--------------------------|-------|
| KG-34-H-9 | ARMSTRONG RUN            | 1.24  |
| KG-45-BIG | LAUREL CREEK             | 6.56  |
| KG-57     | MILLER MILL RUN          | 4.37  |
| KG-58     | LAUREL CREEK             | 2.07  |
| KG-59     | BIG RUN                  | 1.32  |
| KG-5-F-3  | BEARPEN FORK             | 1.27  |
| KG-5-H    | ASH FORK                 | 3.09  |
| KG-5-J    | NEIL BRANCH              | 2.65  |
| KG-6      | RIGH CREEK               | 6.74  |
| KG-60     | TURKEY CREEK             | 4.86  |
| KG-61     | HUGHES RUN               | 2.79  |
| KG-65     | WILLIAMS CAMP RUN        | 1.66  |
| KG-67     | STRAIGHT CREEK           | 1.83  |
| KG-70     | BIG RUN                  | 3.22  |
| KG-72     | MIDDLE FORK              | 1.96  |
| KG-73     | NORTH FORK               | 3.29  |
| KG-8      | GRANBERRY RIVER          | 38.39 |
| KG-14     | LICK BRANCH              | 1.22  |
| KG-15     | HANGING ROCK BRANCH      | 1.24  |
| KG-19     | DOGWAY FORK              | 8.75  |
| KG-21     | BIRCH LONG RUN           | 2.18  |
| KG-23-E   | CHARLES CREEK            | 2.59  |
| KG-24-C   | LEFT FORK                | 1.52  |
| KG-3      | JAKEMAN RUN              | 2.06  |
| KG-4      | BARRENSHE RUN            | 4.59  |
| KG-7      | BEE RUN                  | 1.57  |
| KG-8      | FOXTREE RUN              | 1.56  |
| KG-9      | ALDRIGH BRANCH           | 1.25  |
| KGW       | WILLIAMS RIVER           | 34.70 |
| KGW-1     | CRAIG RUN                | 2.00  |
| KGW-19    | UPPER DANNOCK SHOALS RUN | 1.83  |
| KGW-2     | JONATHAN RUN             | 1.38  |
| KGW-20    | TEA CREEK                | 5.96  |
| KGW-20-A  | LICK CREEK               | 1.82  |
| KGW-21    | SUGAR CREEK              | 3.63  |
| KGW-22    | LITTLE LAUREL CREEK      | 2.47  |
| KGW-25    | DAY RUN                  | 3.08  |
| KGW-26    | BLACK MOUNTAIN RUN       | 1.65  |
| KGW-27    | MOUNTAIN LICK RUN        | 2.11  |
| KGW-3     | SAWYER RUN               | 1.33  |

|       |                |                    |
|-------|----------------|--------------------|
| KGW-4 | SPICE RUN      | 1.84               |
| KGW-8 | WHITE OAK FORK | 2.14               |
| KGW-9 | LICK BRANCH    | 1.43               |
|       |                | 379.30 total miles |

#### New River Watershed (Upper & Lower)

|          |                        |                    |
|----------|------------------------|--------------------|
| KN-17    | MANN'S CREEK           | 3.37               |
| KN-18    | EPHRAIM CREEK          | 4.22               |
| KN-23    | BUFFALO CREEK          | 2.41               |
| KN-24    | SLATER CREEK           | 5.08               |
| KN-26    | PINEY CREEK            | 16.91              |
| KN-26-B  | FAT CREEK              | 6.56               |
| KN-27    | LAUREL CREEK           | 12.37              |
| KN-27-C  | CHESTNUT KNOB FORK     | 3.54               |
| KN-29    | GLADE CREEK            | 5.76               |
| KN-29-E  | PING CREEK             | 5.71               |
| KN-32    | MEADOW CREEK           | 2.59               |
| KN-37    | FALL BRANCH            | 1.93               |
| KN-51-O  | TURKEY CREEK           | 9.19               |
| KN-61    | RICH CREEK             | 2.85               |
| KNB-12-B | LAUREL CREEK           | 4.86               |
| KNB-13   | CAMP CREEK             | 9.29               |
| KNB-13-D | MASH FORK              | 2.91               |
| KNB-13-G | SENG BRANCH            | 1.48               |
| KNB-3    | LITTLE BLUESTONE RIVER | 4.73               |
| KNB-30   | CRANE CREEK            | 5.40               |
|          |                        | 111.16 total miles |

#### Greenbrier River Watershed

|            |                  |       |
|------------|------------------|-------|
| KNB        | GREENBRIER RIVER | 25.30 |
| KNB(S)-1   | MILLIGAN CREEK   | 5.71  |
| KNB(S)-2-B | FLYNN CREEK      | 4.27  |
| KNB(S)-3-A | BURNS RUN        | 4.08  |
| KNB-23     | SECOND CREEK     | 6.06  |
| KNB-28     | ANTHONY CREEK    | 15.70 |
| KNB-28-D   | LITTLE CREEK     | 8.08  |
| KNB-28-P-1 | LAUREL RUN       | 4.20  |
| KNB-28-Q-2 | TWOMILE RUN      | 1.55  |
| KNB-47     | BEAVER CREEK     | 8.18  |
| KNB-49     | SWAGO CREEK      | 3.77  |

|                                |                 |                    |
|--------------------------------|-----------------|--------------------|
| KNG-53-G                       | BARGLAY RUN     | 1.74               |
| KNG-53-H                       | DOUTHAT CREEK   | 9.02               |
| KNG-60                         | LAUREL RUN      | 3.00               |
| KNG-66-D                       | SHOCK RUN       | 4.46               |
| KNG-66-H-2                     | LEFT PRONG      | 3.29               |
| KNG-68                         | DEER CREEK      | 8.75               |
| KNG-68-A                       | NORTH FORK      | 10.73              |
| KNG-68-A-3                     | SUTTON RUN      | 1.60               |
| KNG-68-A-4                     | TACKER FORK     | 2.46               |
| KNG-68-A-5                     | BLACK RUN       | 2.43               |
| KNG-68-A-6                     | ELLEBER RUN     | 3.08               |
| KNG-68-A-6-A                   | GRIFFIN RUN     | 1.69               |
| KNG-70                         | LEATHERBARK RUN | 4.69               |
| KNG-74                         | TROUT RUN       | 1.14               |
| KNG-75                         | ALLEGHENY RUN   | 5.33               |
| KNG-77                         | ELK CREEK       | 2.56               |
| KNG-78                         | EAST FORK       | 19.87              |
| KNG-78-A                       | JOHNS RUN       | 2.24               |
| KNG-78-C                       | LITTLE RIVER    | 6.28               |
| KNG-78-G                       | FIVEMILE HOLLOW | 2.29               |
| KNG-78-H                       | POGA RUN        | 2.73               |
| KNG-78-H-1                     | LONG RUN        | 2.85               |
| KNG-78-K                       | MULLENAX RUN    | 2.92               |
| KNG-78-L                       | ABES RUN        | 2.65               |
| KNG-79                         | WEST FORK       | 17.68              |
| KNG-79-B                       | FILL RUN        | 1.91               |
| KNG-79-C                       | LITTLE RIVER    | 7.59               |
| KNG-79-C-1                     | SPAN OAK RUN    | 2.32               |
| KNG-79-C-2                     | CLUBHOUSE RUN   | 11.02              |
| KNG-79-C-3                     | HINKLE RUN      | 10.41              |
|                                |                 | 245.59 total miles |
| Little Kanawha River Watershed |                 |                    |
| LK-111                         | LAUREL RUN      | 6.04               |
| LK-131                         | GETOUT RUN      | 3.01               |
| LK-86-E-4                      | PINE RUN        | 1.57               |
| LK-95-L                        | CARPENTER FORK  | 5.04               |
|                                |                 | 15.66 total miles  |

#### Gheat River Watershed

|           |                     |       |
|-----------|---------------------|-------|
| MC-12-A   | LAUREL RUN          | 6.13  |
| MC-12-B-3 | HOG RUN             | 4.42  |
| MC-12-B-6 | MILL RUN            | 3.95  |
| MC-18     | ROARING CREEK       | 8.03  |
| MC-1-A    | RYAN HOLLOW         | 2.33  |
| MC-20     | ELSEY RUN           | 3.40  |
| MC-2-A    | DARNELL RUN         | 2.08  |
| MC-33-A   | FLAG RUN            | 5.51  |
| MC-36     | WOLF CREEK          | 6.90  |
| MC-41     | LONG RUN            | 1.22  |
| MC-45     | TOBES RUN           | 1.16  |
| MC-46-B   | RIGHT FORK          | 3.80  |
| MC-47     | JOHNATHAN RUN       | 1.86  |
| MC-50     | UPPER JOHNATHAN RUN | 2.53  |
| MC-51     | GLOVER RUN          | 1.34  |
| MC-51     | LEFT FORK           | 9.16  |
| MC-51-A   | RIGHT FORK          | 5.45  |
| MC-51-B   | INDIAN FORK         | 4.16  |
| MC-52     | MINEAR RUN          | 6.63  |
| MC-52-0.7 | BRIDGE RUN          | 1.12  |
| MC-52-A   | ROARING RUN         | 2.12  |
| MC-53     | DRY RUN             | 2.73  |
| MC-54     | HORSESHOE RUN       | 15.55 |
| MC-54-A   | MIKE RUN            | 3.86  |
| MC-54-C   | MAXWELL RUN         | 2.92  |
| MC-54-D   | HYLE RUN            | 3.92  |
| MC-54-E   | LICK DRAIN          | 1.79  |
| MC-54-F   | LAUREL RUN          | 2.87  |
| MC-54-G   | LYNN RUN            | 1.33  |
| MC-54-H   | THUNDERSTRUCK RUN   | 3.89  |
| MC-54-I   | LEADMINE RUN        | 4.81  |
| MC-54-I-1 | LIME HOLLOW RUN     | 1.14  |
| MC-54-J   | WOLF RUN            | 1.80  |
| MC-54-K   | TWELVEMILE RUN      | 2.25  |
| MC-55     | DRY RUN             | 3.19  |
| MC-56     | MILL RUN            | 4.77  |
| MC-57     | WOLF RUN            | 1.90  |
| MC-60     | DRY FORK            | 3.76  |
| MC-60-A   | ROARING RUN         | 0.77  |
| MC-60-C   | ELKLICK RUN         | 4.52  |

|              |                        |       |
|--------------|------------------------|-------|
| MG-60-C-3    | JOHN B. HOLLOW         | 1.12  |
| MG-60-D-10   | SAND RUN               | 3.19  |
| MG-60-D-11   | YOAKUM RUN             | 2.48  |
| MG-60-D-     | LOWER BLACKWATER RIVER | 2.62  |
| MG-60-G      | RED RUN                | 5.56  |
| MG-60-I      | MILL RUN               | 2.92  |
| MG-60-J      | ELK LICK RUN           | 2.59  |
| MG-60-K      | GLADY FORK             | 31.31 |
| MG-60-K-1    | THREE SPRING RUN       | 1.25  |
| MG-60-K-11   | MCGRAY CREEK           | 2.41  |
| MG-60-K-15   | DANIELS CREEK          | 3.18  |
| MG-60-K-16   | WEST FORK GLADY FORK   | 6.13  |
| MG-60-K-16   | WEST FORK GLADY FORK   | 4.27  |
| MG-60-K-17   | EAST FORK GLADY FORK   | 7.28  |
| MG-60-K-17-A | LOUK RUN               | 1.19  |
| MG-60-K-2    | PANTHER CAMP RUN       | 1.73  |
| MG-60-K-2-A  | HOG RUN                | 1.17  |
| MG-60-K-4    | FIVE LICK CREEK        | 1.74  |
| MG-60-K-5    | WOODFORD RUN           | 1.14  |
| MG-60-K-6    | BAKER CAMP RUN         | 1.19  |
| MG-60-L      | BIG RUN                | 3.69  |
| MG-60-N      | LAUREL FORK            | 21.52 |
| MG-60-N-4    | BEAVERDAM RUN          | 2.12  |
| MG-60-N-8    | FIVE LICK RUN          | 2.45  |
| MG-60-O      | RED CREEK              | 6.77  |
| MG-60-O-1    | BIG RUN                | 3.47  |
| MG-60-O-2    | FLATROCK RUN           | 2.89  |
| MG-60-O-3    | GANDY RUN              | 2.26  |
| MG-60-P      | SPRUGE RUN             | 3.25  |
| MG-60-Q      | HORSE CAMP RUN         | 4.59  |
| MG-60-R      | TORY CAMP RUN          | 2.43  |
| MG-60-T      | GANDY CREEK            | 15.68 |
| MG-60-T-1    | LOWER TWO SPRING RUN   | 2.29  |
| MG-60-T-10   | NARROW RIDGE RUN       | 2.16  |
| MG-60-T-11   | WARNER RUN             | 2.21  |
| MG-60-T-2    | UPPER TWO SPRING RUN   | 2.53  |
| MG-60-T-3    | SWALLOW ROCK RUN       | 1.82  |
| MG-60-T-6    | TAYLOR RUN             | 0.87  |
| MG-60-T-8    | BIG RUN                | 3.75  |
| MG-60-T-9    | GRANTS BRANCH          | 2.80  |

|          |                    |                    |
|----------|--------------------|--------------------|
| MGS      | SHAVERS-FORK       | 7.26               |
| MGS-12   | LITTLE-LAUREL-RUN  | 1.31               |
| MGS-13   | LITTLE-BLACK-RUN   | 4.74               |
| MGS-14   | CLIFTON-RUN        | 2.11               |
| MGS-15   | RATTLESNAKE-RUN    | 5.03               |
| MGS-16   | JOHNS-RUN          | 2.70               |
| MGS-2    | HAWK-RUN           | 1.09               |
| MGS-22   | TAYLOR-RUN         | 2.97               |
| MGS-22-A | STALNAKER-RUN      | 1.61               |
| MGS-28   | UPPER-POND-LICK    | 6.29               |
| MGS-3    | HADBIT-RUN         | 2.68               |
| MGS-33   | FISHING-HAWK-CREEK | 3.60               |
| MGS-3-A  | SOUTH-BRANCH       | 3.56               |
| MGS-4    | JOBS-RUN           | 1.72               |
| MGS-40   | YOKUM-RUN          | 2.56               |
| MGS-43   | GLADE-RUN          | 2.67               |
| MGS-46   | RED-RUN            | 2.75               |
| MGS-47   | BLISTER-RUN        | 1.95               |
| MGS-48   | FISH-HATCHERY-RUN  | 2.66               |
| MGS-49   | LAMBERT-RUN        | 3.23               |
| MGS-5    | LAUREL-RUN         | 3.48               |
| MGS-50   | FIRST-FORK         | 5.42               |
| MGS-54   | BEAVER-CREEK       | 1.74               |
| MGS-55   | SECOND-FORK        | 4.15               |
| MGS-57   | BLACK-RUN          | 2.28               |
| MGS-6    | PLEASANT-RUN       | 3.52               |
| MGS-6-B  | AARONS-RUN         | 2.35               |
| MGS-7    | STONE-LICK-RUN     | 1.68               |
| MGS-8    | LAUREL-RUN         | 1.18               |
| MGS-9    | NAIL-RUN           | 1.74               |
|          |                    | 415.11 total miles |

#### Tygart River Watershed

|             |              |      |
|-------------|--------------|------|
| MT-18-E-5-B | FROG-RUN     | 2.36 |
| MT-23-F     | MILL-RUN     | 4.03 |
| MT-23-H     | MILL-RUN     | 3.72 |
| MT-38       | ZEDS-CREEK   | 4.04 |
| MT-44       | MATHEUS-RUN  | 1.66 |
| MT-45-C     | RIGHT-FORK   | 3.24 |
| MT-47       | BEAVER-CREEK | 6.20 |

|           |                              |       |
|-----------|------------------------------|-------|
| MT-50-A   | RIGHT FORK OF FILES CREEK    | 8.33  |
| MT-50-A-1 | LIMEKILN RUN                 | 2.12  |
| MT-50-B   | LEFT FORK FILES CREEK        | 2.84  |
| MT-61     | SHAYERS RUN                  | 6.95  |
| MT-64     | MILL CREEK                   | 10.69 |
| MT-64-C   | GLADE RUN                    | 1.59  |
| MT-64-E   | MEATBOX RUN                  | 1.19  |
| MT-64-F   | POTATOHOLE FORK              | 1.84  |
| MT-66     | RIFFLE CREEK                 | 1.91  |
| MT-66-B   | MGEEE RUN                    | 3.40  |
| MT-66-C   | BAGK FORK                    | 2.01  |
| MT-67     | RAFE RUN                     | 1.54  |
| MT-68     | BECKY CREEK                  | 9.41  |
| MT-68-A   | BIG BRANCH                   | 2.25  |
| MT-72     | HAMILTON RUN                 | 2.49  |
| MT-73     | CLAY RUN                     | 2.61  |
| MT-74     | ELK WATER FORK               | 5.20  |
| MT-74-A   | MOWRY RUN                    | 2.34  |
| MT-74-B   | LIMEKILN RUN                 | 1.93  |
| MT-75     | STEWART RUN                  | 8.08  |
| MT-77     | CONLEY RUN                   | 7.10  |
| MT-78     | RALSTON RUN                  | 6.99  |
| MT-79     | WINDY RUN                    | 4.60  |
| MT-80     | LOGAN RUN                    | 2.49  |
| MT-81     | BIG RUN                      | 5.14  |
| MTB-25-A  | RIGHT FORK                   | 3.88  |
| MTB-27    | PANTHER FORK                 | 4.08  |
| MTB-28    | BIG RUN                      | 3.03  |
| MTB-31    | RIGHT FORK                   | 2.24  |
| MTB-31-B  | REGER RUN                    | 1.13  |
| MTB-31-C  | ALEG RUN                     | 1.93  |
| MTB-31-D  | MILLSITE RUN                 | 3.76  |
| MTB-32    | LEFT FORK                    | 6.85  |
| MTB-32-D  | BEARGAMP RUN                 | 5.00  |
| MTB-32-H  | BEECH RUN                    | 4.62  |
| MTM       | MIDDLE FORK RIVER            | 7.32  |
| MTM-1     | HANGING RUN                  | 4.68  |
| MTM-11    | RIGHT FORK MIDDLE FORK RIVER | 7.42  |
| MTM-11-D  | JACKSON FORK                 | 3.88  |
| MTM-11-E  | JENKS FORK                   | 3.70  |

|          |                    |                    |
|----------|--------------------|--------------------|
| MTM-13   | LONG RUN           | 7.66               |
| MTM-16   | CASSITY FORK       | 4.25               |
| MTM-16-A | PANTHER RUN        | 4.43               |
| MTM-21   | PLEASANT RUN       | 1.82               |
| MTM-22   | LAUREL RUN         | 2.57               |
| MTM-23   | LAUREL BRANCH      | 4.00               |
| MTM-24   | SUGAR RUN          | 2.30               |
| MTM-25   | SCHOOLCRAFT RUN    | 3.08               |
| MTM-25-A | BIRCH FORK         | 1.48               |
| MTM-26   | BIRCH FORK         | 3.56               |
| MTM-27   | MITCHELL LICK FORK | 2.52               |
|          |                    | 231.49 total miles |

#### Upper Ohio North

|         |               |      |
|---------|---------------|------|
| O-102-A | WHITE OAK RUN | 0.48 |
|---------|---------------|------|

#### Twelvepole Creek Watershed

|            |                     |                   |
|------------|---------------------|-------------------|
| O-2-H-2-A  | STOWERS BRANCH      | 0.46              |
| O-2-P-23   | ARKANSAS BRANCH     | 0.75              |
| O-2-P-25   | SWEETWATER BRANCH   | 2.00              |
| O-2-P-26   | LONG BRANCH         | 2.59              |
| O-2-P-27   | SPRUGE FORK         | 1.84              |
| O-2-Q-14   | RICH CREEK          | 1.32              |
| O-2-Q-16   | BLUE LICK BRANCH    | 2.28              |
| O-2-Q-18-A | LITTLE LAUREL CREEK | 2.09              |
|            |                     | 13.33 total miles |

#### Upper Ohio South

|        |          |      |
|--------|----------|------|
| O-77-B | LONG RUN | 4.51 |
|--------|----------|------|

#### Guyandotte River Watershed

|         |                    |      |
|---------|--------------------|------|
| OG-102  | BRIGKLE BRANCH     | 1.64 |
| OG-29-C | HORSESHOE BRANCH   | 1.98 |
| OG-32-F | PLUM BRANCH        | 2.35 |
| OG-34-E | STEER FORK         | 1.64 |
| OG-37   | LITTLE UGLY CREEK  | 1.42 |
| OG-38   | BIG UGLY CREEK     | 8.49 |
| OG-38-A | PIGEON ROOST CREEK | 3.62 |
| OG-38-B | LAUREL CREEK       | 2.60 |
| OG-61   | BUFFALO CREEK      | 3.01 |

|         |                 |                   |
|---------|-----------------|-------------------|
| OG-96-A | STURGEON BRANCH | 1.57              |
| OGM-8-B | LEFT FORK       | 2.75              |
|         |                 | 31.06 total miles |

#### Potomac Direct Brains Watershed

|         |                       |                   |
|---------|-----------------------|-------------------|
| P-16    | ROCKWELL RUN          | 10.39             |
| P-9-G-1 | NORTH FORK INDIAN RUN | 1.49              |
| P-9-G-2 | SOUTH FORK INDIAN RUN | 3.76              |
|         |                       | 15.63 total miles |

#### Gacapon River Watershed

|         |                |                   |
|---------|----------------|-------------------|
| PG-0-9  | CONOR HOLLOW   | 7.73              |
| PG-1    | CONSTANT RUN   | 5.23              |
| PG-10   | EDWARDS RUN    | 7.00              |
| PG-17   | HAWK RUN       | 4.62              |
| PG-23   | TROUT RUN      | 16.62             |
| PG-24-H | LOWER COVE RUN | 4.63              |
|         |                | 45.83 total miles |

#### North Branch / Potomac River Watershed

|            |                 |                   |
|------------|-----------------|-------------------|
| PNB-14     | HOWELL RUN      | 3.83              |
| PNB-15     | DEEP RUN        | 4.75              |
| PNB-15-A   | GRANBERRY RUN   | 2.66              |
| PNB-16-B   | WYCKOFF RUN     | 2.43              |
| PNB-18     | DIFFICULT CREEK | 5.17              |
| PNB-18-B-1 | JOHNNYCAKE RUN  | 3.28              |
|            |                 | 22.11 total miles |

#### South Branch / Potomac River Watershed

|               |                |       |
|---------------|----------------|-------|
| PSB-13        | MILL RUN       | 8.95  |
| PSB-21-F      | DUMPLING RUN   | 2.60  |
| PSB-21-K      | ROUGH RUN      | 6.92  |
| PSB-25-G-2    | SPRING RUN     | 2.98  |
| PSB-28-A-1    | DIG RUN        | 2.61  |
| PSB-28-A-2    | LAUREL RUN     | 3.17  |
| PSB-28-B      | SAMUEL RUN     | 2.85  |
| PSB-28-C      | BROAD RUN      | 2.39  |
| PSB-28-D      | MOYER FORK     | 7.92  |
| PSB-28-E      | HIGH RIDGE RUN | 2.28  |
| PSB-28-EE     | DIG RUN        | 12.84 |
| PSB-28-EE-2   | SAWMILL BRANCH | 3.22  |
| PSB-28-EE-2-A | BAGK RUN       | 3.39  |

|               |                         |        |
|---------------|-------------------------|--------|
| PSB-28-EE-3   | TEETER CAMP RUN         | 3.74   |
| PSB-28-EE-3-A | HEMLOCK RUN             | 1.94   |
| PSB-28-EE-3-B | LEONARD SPRING HOLLOW   | 4.64   |
| PSB-28-EE-3-C | MIDDLE RIDGE HOLLOW     | 4.84   |
| PSB-28-EE-3-D | BUD HOLLOW              | 3.54   |
| PSB-28-EE-4   | ELK RUN                 | 3.93   |
| PSB-28-G      | ZEKE RUN                | 3.70   |
| PSB-28-GG-1   | VANGE RUN               | 3.27   |
| PSB-28-GG-2   | SAMS RUN                | 1.10   |
| PSB-28-GG-2-A | LITTLE LOW PLAGE HOLLOW | 1.10   |
| PSB-28-I      | POWDERMILL RUN          | 2.84   |
| PSB-28-K      | SENEGA CREEK            | 20.26  |
| PSB-28-K-1    | BRUSHY RUN              | 7.79   |
| PSB-28-K-2    | ROARING CREEK           | 6.13   |
| PSB-28-K-2-B  | LONG RUN                | 2.23   |
| PSB-28-K-3    | HORSEGAMP RUN           | 4.06   |
| PSB-28-K-3-B  | WAMSLEY RUN             | 1.52   |
| PSB-28-K-4    | STRADER RUN             | 2.56   |
| PSB-28-K-5    | GULF RUN                | 1.46   |
| PSB-28-K-6    | WHITES RUN              | 3.86   |
| PSB-28-K-6-A  | LOWER GULF RUN          | 4.67   |
| PSB-28-K-6-B  | UPPER GULF RUN          | 2.67   |
| PSB-28-R      | BLIZZARD RUN            | 3.60   |
| PSB-28-S      | BRIERY GAP RUN          | 2.65   |
| PSB-28-T      | LAUREL RUN              | 2.74   |
| PSB-29        | REDMAN RUN              | 3.44   |
| PSB-30        | LONG RUN                | 2.88   |
| PSB-32        | BRIGGS RUN              | 4.57   |
| PSB-33        | REEDS CREEK             | 11.16  |
| PSB-40        | PETERS RUN              | 5.08   |
| PSB-47        | THORN CREEK             | 9.08   |
| PSB-9         | MILL CREEK              | 25.38  |
|               |                         | 224.40 |

**Sherandoah River Watershed (Hardy County)**

S-9-A GAPON RUN 2.19

Total number of streams 444

