

## CHAPTER 7. MANAGEMENT RECOMMENDATIONS

This section highlights recommendations to improve the quality of life. These management recommendations are non-regulatory and available for use by any citizen, group, or agency. Potential partners are groups with the resources best suited to assist in meeting these objectives. Potential funding avenues are included in the matrix. Groups listed as possible partners or funding sources are suggestion and should not be limited to those provided due to ever-changing circumstances. Identified in the general classification of conservation organizations are groups such as Bennett Branch Watershed Association, Bucktail Watershed Association, First Fork Watershed Association, Penn State Cooperative Extension, Susquehanna River Basin Commission, Northcentral Pennsylvania Conservancy, Western Pennsylvania Conservancy, and Pennsylvania Organization for Watersheds and Rivers, etc.

Derived from correspondences, comments, issues, and concerns the recommendations reflect the views expressed by local citizens. Discussed in further detail in the Issues and Concerns chapter are the issues, topics, and concerns identified throughout the planning process. The watershed community developed the management recommendations through comments, interview, public meeting workshops, and the completion of surveys. The prioritization of the recommendations was determined by the local steering and advisory committees and by the public during the draft review phase. Committee members prioritized the recommendations based upon impacts to the watershed, feasibility, and probability of funding.

This matrix of recommendations includes goals, methods to achieve the goals, potential partners, and potential funding sources. They are listed by priority, with the higher priorities for each goal listed first. An additional listing of potential funding sources and the types of projects funded by each source is included in Appendix L. Listed in Table 7-1 are acronyms used in the management recommendations.

**Table 7-1. Acronyms used in Management Recommendations Matrix**

|       |  |          |   |
|-------|--|----------|---|
| BAMR  | Pennsylvania Department of Environmental Protection Bureau of Abandoned Mine Reclamation | PASA     | Pennsylvania Association for Sustainable Agriculture          |
| DCED  | Pennsylvania Department of Community and Economic Development                            | PDA      | Pennsylvania Department of Agriculture                        |
| DCNR  | Pennsylvania Department of Conservation and Natural Resources                            | PEMA     | Pennsylvania Emergency Management Agency                      |
| DEP   | Pennsylvania Department of Environmental Protection                                      | PennDOT  | Pennsylvania Department of Transportation                     |
| EPA   | United States Environmental Protection Agency  | PENNVEST | Pennsylvania Infrastructure Investment Authority              |
| FEMA  | Federal Emergency Management Agency  | PGC      | Pennsylvania Game Commission                                  |
| HUD   | Housing and Urban Development  | PNHP     | Pennsylvania Natural Heritage Program                         |
| LWV   | League of Women Voters   | PSAB     | Pennsylvania State Association of Boroughs                    |
| NRCS  | United States Department of Agriculture Natural Resources Conservation Service           | PSATS    | Pennsylvania State Association of Townships                   |
| OSM   | United States Department of Interior Office of Surface Mining                            | RWA      | Rural Water Authority   |
| PABS  | Pennsylvania Biological Survey   | SEO      | Sewage Enforcement Officer                                    |
| PACD  | Pennsylvania Association of Conservation Districts                                       | USACE    | United States Army Corps of Engineers                         |
| PALMS | Pennsylvania Lake Management Society   | USDA     | United State Department of Agriculture                        |
|       |  | USFS     | United States Forest Service                                  |
|       |  | USFWS    | United States Fish and Wildlife Service                       |
|       |  | USGS     | United States Geological Survey                               |
|       |  | WPCAMR   | Western Pennsylvania Coalition for Abandoned Mine Reclamation |
|       |  | WREN     | Water Resources Education Network                             |

## Project Area Characteristics

### Goal 1-1: Become proactive, and establish land-use ordinances to protect communities from unwanted land uses and businesses before they are proposed or established.

| <i>Method to Achieve Goal:</i>  | <i>Potential Partners</i>   | <i>Potential Funding</i>           | <i>Priority</i> |
|---|---|------------------------------------|-----------------|
| 1. Utilize responsible zoning to protect communities without significantly impeding landowner rights.   | Municipalities, Planning Commissions, Conservation Groups, Landowners | DCED, Foundations, Private Sources | High            |
| 2. Encourage municipalities and counties to utilize regulation control powers available to them, such as zoning and subdivision ordinances, to preserve and improve the quality of life and manage growth within their community. | Municipalities, Planning Commissions, Conservation Groups, Landowners | DCED, Foundations, Private Sources | High            |
| 3. Develop land-use ordinances or subdivision regulations in accordance with municipal and county comprehensive plans to protect the character of communities and valuable resources from undesirable land uses.                  | Municipalities, Planning Commissions, Conservation Groups, Landowners | DCED, Foundations, Private Sources | High            |
| 4. Encourage municipalities and counties to maintain up-to-date comprehensive plans, reviewing and updating their plan every 10 years.  | Municipalities, Planning Commissions, Conservation Groups, Landowners | DCED, Foundations, Private Sources | High            |
| 5. Build partnerships with municipal officials, businesses, developers, and other stakeholders to enforce existing ordinances and alter negative perceptions of zoning through education and awareness programs.                  | Municipalities, Counties, Planning Commissions                        | DCED, Foundations, Private Sources | Medium          |
| 6. Strengthen the regulation of land-use ordinances, so they are not easily changed.  | Municipalities, Counties, Planning Commissions                        | DCED, Foundations, Private Sources | Medium          |

### Goal 1-2: Enhance area roadways, minimizing impacts and improving safety for residents and visitors.

| <i>Method to Achieve Goal:</i>   | <i>Potential Partners</i>  | <i>Potential Funding</i>                         | <i>Priority</i> |
|--|--|--|-----------------|
| 1. Implement best management practices that protect water resources when improving and upgrading dirt and gravel roads, secondary, and rural roadways. | Conservation Groups, Municipalities, Road Masters, DEP, PFBC   | PennDOT, DCED, Foundations, Private Sources      | High            |
| 2. Educate road masters about best management practices and techniques for dirt and gravel roadways maintenance.                                       | Conservation Groups, Road Masters, Penn State Dirt & Gravel Road Program, Municipalities, DEP, PennDOT | PennDOT, DCED, DEP, Foundations, Private Sources | High            |
| 3. Include sound geologic investigation and best management practices during maintenance and construction of roadways to minimize impacts.             | Conservation Groups, Road Masters, PennDOT   | PennDOT, DCED, Foundations, Private Sources      | High            |

**Goal 1-2: Enhance area roadways, minimizing impacts and improving safety for residents and visitors (continued).**

| <i>Method to Achieve Goal:</i>   | <i>Potential Partners</i>   | <i>Potential Funding</i>                                      | <i>Priority</i> |
|--|---|---|-----------------|
| 4. Support municipal participation in the Dirt and Gravel Roads Program to reduce erosion and sedimentation. | Municipalities, Conservation Groups, Conservation Districts, DEP  | PennDOT, DCED, Foundations, Private Sources                   | High            |
| 5. Increase funding to fix and address impacts caused by poorly managed dirt and gravel roads.               | Conservation Groups, Road Masters, Penn State Dirt & Gravel Road Program, Municipalities, Legislators, DEP, PennDOT, DCED | PennDOT, DCED, DEP, Foundations, Private Sources, Legislature | Medium          |
| 6. Increase maintenance on roadways, especially those used heavily by the trucking industry.                 | Municipalities, PennDOT   | PennDOT, DCED, Private Sources                                | Medium          |
| 7. Determine impacts that salt and ashes have on the water quality, and investigate alternative practices.   | Conservation Groups, Universities, Road Masters, Municipalities, DEP, EPA, PennDOT  | PennDOT, DCED, DEP, Foundations, Private Sources              | Medium          |
| 8. Combine state forest and municipal dirt and gravel road programs, and expand it to logging roads.         | Municipalities, Legislators, DCNR, PennDOT  | PennDOT, DCED, DEP, Foundations, Private Sources, Legislature | Medium          |
| 9. Establish dirt and gravel road legislation for coldwater fisheries and lower quality streams.             | Conservation Groups, Road Masters, Penn State Dirt & Gravel Road Program, Municipalities, DEP, PennDOT                    | PennDOT, DCED, DEP, Foundations, Private Sources              | Medium          |
| 10. Control unregulated traffic along the Elk Scenic Drive through increased, collaborative enforcement.     | Municipalities, State Police, PennDOT, DCNR   | Foundations, Private Sources, Legislature                     | Low             |

**Goal 1-3: Support the Pennsylvania Wilds initiative to encourage growth of tourism and tourism related businesses enhancing visitors' experience, while protecting the natural resources that make this region unique.**

| <i>Method to Achieve Goal:</i>  | <i>Potential Partners</i>   | <i>Potential Funding</i>           | <i>Priority</i> |
|---|---|------------------------------------|-----------------|
| 1. Revitalize downtown areas to encourage the establishment of small businesses that compliment the community character.  | Planning Departments, Municipalities, Chambers of Commerce, HUD, TPAs           | DCED, Foundations, Private Sources | High            |
| 2. Plan for development based upon limitations of the physical characteristics of the region, including the consideration of water use limitations in permitting decisions, water quantity, soil type, etc. | Planning Departments, Municipalities, Conservation Groups, NRCS, DEP, USGS, HUD | DCED, Foundations, Private Sources | High            |

**Goal 1-3: Support the Pennsylvania Wilds initiative to encourage growth of tourism and tourism related businesses enhancing visitors' experience, while protecting the natural resources that make this region unique (continued) .**

| <u>Method to Achieve Goal:</u>   | <u>Potential Partners</u>   | <u>Potential Funding</u>                 | <u>Priority</u> |
|--|---|--|-----------------|
| 3. Encourage landowners and engineers to implement Conservation by Design, Smart Growth, or Pennsylvania Wilds Design Guide principals when development opportunities arise. | Planning Departments, Municipalities, Landowners, Engineers, HUD  | DCED, Foundations, Private Sources       | Medium          |
| 4. Consult the Pennsylvania Wilds Design Guide before establishing, designing, or altering properties.   | Municipalities, Engineers, Planning Departments, HUD              | DCED, Foundations, Private Sources       | Medium          |
| 5. Conduct a demonstration project utilizing PA Wilds Design Guide at a local site for educational purposes.   | Wilds Planning Team, Planning Departments, Conservation Districts | DCED, DCNR, Foundations, Private Sources | Medium          |

**Goal 1-4: Open lines of communication among municipalities, counties, states, agencies, conservation groups, businesses, and organizations to development partnerships needed to discuss and address issues.**

| <u>Method to Achieve Goal:</u>   | <u>Potential Partners</u>   | <u>Potential Funding</u>           | <u>Priority</u> |
|--|---|------------------------------------|-----------------|
| 1. Build partnerships with municipal officials, businesses, developers, and other stakeholders to enforce existing ordinances and alter negative perceptions of zoning through education and awareness programs.   | Municipalities, Counties, Planning Commissions                                | DCED, Foundations, Private Sources | Medium          |
| 2. Foster communication and cooperation between municipalities and counties.   | Municipalities, Counties  | DCED, Private Sources              | Medium          |
| 3. Establish an agreement between local municipalities, conservation organizations, and railroad companies to establish public access to obtain permission for the public to cross tracks or establish designated paths to cross tracks, opening area waterways for recreational purposes. | Municipalities, Counties, Conservation Groups, Railroad Companies, DCNR, PFBC | Private Sources                    | Medium          |
| 4. Establish joint or shared management of non-road issues among townships and boroughs.   | Municipalities, Counties  | DCED, Private Sources              | Medium          |
| 5. Establish memorandums of understanding between municipalities and public entities to share equipment to clean up after local disasters, such as flooding and tornados.  | Municipalities, Counties, DEP, DCNR, DCED, PFBC, PGC                          | Private Sources                    | Medium          |
| 6. Encourage collaboration amongst environmental groups, including the development and support for more groups.  | Conservation Groups, Conservation Districts                                   | Private Sources, Foundations       | Medium          |

**Goal 1-5: Carefully plan development to ensure economic stability needed to maintain a balanced workforce and enhance marketability of the region, without altering its rural character.**

| <u>Method to Achieve Goal:</u>   | <u>Potential Partners</u>                              | <u>Potential Funding</u>     | <u>Priority</u> |
|--|--|------------------------------|-----------------|
| 1. Forge an alliance or network among local business owners to support each other's businesses and develop a website promoting these local businesses. | Businesses, Chambers of Commerce, Planning Commissions | Foundations, Private Sources | Medium          |

**Goal 1-5: Carefully plan development to ensure economic stability needed to maintain a balanced workforce and enhance marketability of the region, without altering its rural character (continued).**

| <i>Method to Achieve Goal:</i>   | <i>Potential Partners</i>   | <i>Potential Funding</i>                 | <i>Priority</i> |
|--|---|--|-----------------|
| 2. Diversify the local job market by developing and offering incentives and tax breaks to attract new businesses.  | Municipalities, Legislators, Planning Departments, Counties                               | DCED, Foundations, Private Sources       | Medium          |
| 3. Promote sustainable industries to keep young adults in the region and improve economic viability.   | Municipalities, Counties, Planning Commissions  | DCED, Foundations, Private Sources       | Medium          |
| 4. Utilize nature-based tourism opportunities to increase revenue (i.e. bike rentals, canoe rentals, bed and breakfasts, gas stations, and restaurants).   | Conservation Groups, Businesses, DCNR, TPA  | DCNR, DCED, Foundations, Private Sources | Medium          |
| 5. Upgrade and maintain technology, such as high-speed internet and cable, to enable the region to be competitive and attract new businesses.  | Telephone, Cable, and Satellite Companies   | DCED, Foundations, Private Sources       | Medium          |
| 6. Increase economic stability that promotes sustainable natural resource use, such as establishing local resource-oriented sustainable industries like value-added products and farmers markets.  | Businesses, Chambers of Commerce, Planning Commissions, DCNR, PDA                         | DCNR, DCED, Foundations, Private Sources | Medium          |
| 7. Promote alternative energy practices, increasing job markets and decreasing dependency on gas and oil.  | Conservation Groups, DEP, EPA   | DEP, EPA, Private Sources, Foundations   | Medium          |
| 8. Establish incentives for local residents to develop businesses. Restaurants and overnight accommodations are especially needed.   | Municipalities, Planning Commissions, DCNR, DCED  | DCED, DCNR, Foundations, Private Sources | Medium          |
| 9. Offer incentives to help keep young adults in the area.   | Municipalities, Counties, Businesses  | DCED, Foundations, Private Sources       | Low             |
| 10. Conduct a study to determine if wireless communication using technology to mask communication towers would be feasible and/or desired enabling the region to be competitive and attract new business, while maintaining the viewscape. | Telephone, Cable, and Satellite Companies, Municipalities, Citizens, Emergency Responders | DCED, Foundations, Private Sources       | Low             |

**Goal 1-6: Identify impacts of acid precipitation to minimize or remediate these impacts.**

| <i>Method to Achieve Goal:</i>  | <i>Potential Partners</i>                                   | <i>Potential Funding</i>                     | <i>Priority</i> |
|---|---|--|-----------------|
| 1. Develop a network of volunteers to identify waterways that may be impaired by acid precipitation by collecting rainwater and measuring its pH. | Conservation Groups, Conservation Districts, DEP, EPA, DCNR | DEP, EPA, PFBC, Private Sources, Foundations | Medium          |
| 2. Map and identify acid precipitation patterns to determine if aquatic life is being altered by impacts of acid precipitation.                   | Conservation Groups, Conservation Districts, PFBC, DEP, EPA | DEP, EPA, PFBC, Private Sources, Foundations | Medium          |

**Goal 1-7: Enhance financial support and services to prepare and train emergency response providers.**

| <u>Method to Achieve Goal:</u>  | <u>Potential Partners</u>  | <u>Potential Funding</u>                | <u>Priority</u> |
|---|--|---|-----------------|
| 1. Improve emergency management services through additional funding, upgraded equipment, and training for volunteer or professional responders. | First Responders, Paramedics, Police and Fire Departments, Hospitals, Emergency Call Operators | DCED, Foundations, Private Sources      | Medium          |
| 2. Install dry hydrants in rural areas of the watershed where public water supply is limited.   | Conservation Districts, Fire Departments, DEP, DCNR  | DEP, DCED, Private Sources, Foundations | Medium          |
| 3. Develop a maintenance program for dry hydrants.  | Conservation Districts, Fire Departments, DEP, DCNR  | DEP, DCED, Private Sources, Foundations | Low             |

**Land Resources****Goal 2-1: Protect agricultural, forest, and ecologically significant lands, and establish incentives to protect these resources.**

| <u>Method to Achieve Goal:</u>   | <u>Potential Partners</u>   | <u>Potential Funding</u>                  | <u>Priority</u> |
|--|---|---|-----------------|
| 1. Encourage laws to protect surface owners' rights and property from damage caused by subsurface mineral rights owners' access and resource extraction operations.  | Conservation Groups, Conservation Districts, Landowners, Legislators, DEP           | Legislature, Private Sources, Foundations | High            |
| 2. Encourage farmland/forestland tax matching programs to provide incentives to keep land in agriculture/forest and not convert it to residential use.   | Conservation Groups, Conservation Districts, Legislators, Counties, DEP, NRCS, DCNR | Legislature, Private Sources, Foundations | High            |
| 3. Protect large forest tracts and key riparian areas by working with landowners to keep these tracts intact through enrollment in forestland stewardship programs, purchase of conservation easements, or establishing zoning ordinances. | Conservation Groups, Planning Commissions, Municipalities, Landowners, DCNR         | DCNR, Foundations, Private Sources        | High            |
| 4. Protect prime farmlands from conversion to other uses by purchasing conservation easements, assisting in the multi-generation transfer of ownership, or utilizing farmland preservation programs.                                       | Conservation Groups, Planning Commissions, Municipalities, Landowners, DCNR         | NRCS, Foundations, Private Sources        | High            |
| 5. Ensure incentives, such as tax advantages for establishing conservation easements, remain as an encouragement to landowners.  | Conservation Groups, Legislators, DEP, EPA, NRCS, PDA, USDA                         | Legislature, Private Sources, Foundations | High            |
| 6. Develop a strategic plan to prioritize and protect ecologically significant areas through conservation easement purchases or other conservation practices.  | Conservation Groups, Municipalities, DCNR   | DCNR, Foundations, Private Sources        | High            |

**Goal 2-1: Protect agricultural, forest, and ecologically significant lands, and establish incentives to protect these resources (continued).**

| <i>Method to Achieve Goal:</i>   | <i>Potential Partners</i>   | <i>Potential Funding</i>                         | <i>Priority</i> |
|--|---|--|-----------------|
| 7. Develop a program or means through which landowners can obtain conservation easements for biologically diverse and prime habitat areas on their properties. | Conservation Groups, Municipalities, Legislators, Landowners, USDA, DEP, EPA, NRCS, PDA | DCNR, Legislature, Private Sources, Foundations, | High            |

**Goal 2-2: Promote management practices on active mine sites to minimize impacts, prevent mine drainage, and improve conditions where possible.**

| <i>Method to Achieve Goal:</i>   | <i>Potential Partners</i>                        | <i>Potential Funding</i>               | <i>Priority</i> |
|--|--|--|-----------------|
| 1. Promote strict enforcement of erosion and sedimentation regulations on active mine sites.   | Conservation Districts, DEP, EPA                 | DEP                                    | High            |
| 2. Encourage active mine sites to utilize management techniques, such as land liming, alkaline addition in backfill, and filling mine voids with flyash to prevent future mine drainage discharges.  | Conservation Districts, Conservation Groups, DEP | DEP, EPA, Private Sources, Foundations | High            |
| 3. Encourage Pennsylvania Department of Environmental Protection to establish and enforce requirements for sealing core-drillings to prevent the contamination of water sources.   | Conservation Districts, Conservation Groups, DEP | DEP, EPA, Private Sources, Foundations | High            |
| 4. Encourage high-value hardwood tree plantings as one method to reclaim mine lands, and support the Pennsylvania Department of Environmental Protection and U.S. Department of Interior's Office of Surface Mining Reforestation Initiative on active mine sites. | Conservation Districts, Conservation Groups, DEP | DEP, EPA, Private Sources, Foundations | High            |

**Goal 2-3: Minimize impacts from exploration, production, retirement, and abandonment of wells.**

| <i>Method to Achieve Goal:</i>  | <i>Potential Partners</i>                        | <i>Potential Funding</i>          | <i>Priority</i> |
|---|--|-----------------------------------|-----------------|
| 1. Develop, enforce, and implement best management practices specific to gas and oil exploration.   | Conservation Groups, Conservation Districts, DEP | DEP, Private Sources, Foundations | High            |
| 2. Monitor cumulative impacts of oil and gas wells to protect watershed resources and rural character of the region.                                  | Conservation Groups, Conservation Districts, DEP | DEP, Private Sources, Foundation  | High            |
| 3. Institute closer government oversight on gas well exploration and production, including impacts to natural resources.                              | Conservation Groups, Landowners                  | DEP, Private Sources, Foundations | High            |
| 4. Plug abandoned gas wells in the watershed to prevent brine water and abandoned mine drainage from entering the streams and potable water supplies. | Conservation Groups, Conservation Districts, DEP | DEP, Private Sources, Foundation  | High            |

**Goal 2-3: Minimize impacts from exploration, production, retirement, and abandonment of wells (continued).**

| <u>Method to Achieve Goal:</u>  | <u>Potential Partners</u>                              | <u>Potential Funding</u>             | <u>Priority</u> |
|---|--|--------------------------------------|-----------------|
| 5. Remove leaking underground fuel storage tanks.   | Conservation Groups,<br>Conservation Districts,<br>DEP | DEP, Private Sources,<br>Foundations | High            |
| 6. Organize third-party moderated discussions between surface and subsurface rights owners prior to beginning exploration, construction, and production activities to address and resolve issues. | Subsurface Rights<br>Owners, Landowners,<br>DEP        | Private Sources,<br>Foundations      | Medium          |
| 7. Encourage cooperation between surface and subsurface rights owners to minimize conflicts and impacts to the natural resources.   | Conservation Groups,<br>Conservation Districts,<br>DEP | DEP, Private Sources,<br>Foundations | Medium          |

**Goal 2-4: Reclaim abandoned wells, mines, and quarries.**

| <u>Method to Achieve Goal:</u>   | <u>Potential Partners</u>   | <u>Potential Funding</u>                          | <u>Priority</u> |
|--|---|---|-----------------|
| 1. Reduce hazards, such as highwalls and mine drainage, on active and abandoned mine sites, and continue working with Pennsylvania Bureau of Abandoned Mine Reclamation to eliminate these hazards.                        | Conservation Districts,<br>Conservation Groups,<br>DEP, BAMR, OSM | DEP, EPA, OSM,<br>Private Sources,<br>Foundations | High            |
| 2. Implement strategies to remediate abandoned mine drainage, including the upgrading of treatment systems based on continued monitoring results and identifying discharges with suitable deposits of iron oxide recovery. | Conservation Districts,<br>Conservation Groups,<br>DEP, BAMR, OSM | DEP, EPA, OSM,<br>Private Sources,<br>Foundations | High            |
| 3. Conduct an assessment of abandoned mine drainage contamination and develop a prioritized remediation and implementation plan.   | Conservation Districts,<br>Conservation Groups,<br>DEP, BAMR, OSM | DEP, EPA, OSM,<br>Private Sources,<br>Foundations | High            |
| 4. Continue support for industry reclamation incentives and expand current reclamation programs to implement higher quality reclamation techniques.  | Conservation Districts,<br>Conservation Groups,<br>DEP            | DEP, EPA, Private<br>Sources, Foundations         | High            |
| 5. Promote redevelopment of abandoned sites through programs similar to brownfield redevelopment.  | Conservation Districts,<br>Conservation Groups,<br>DEP            | DEP, EPA, Private<br>Sources, Foundations         | Medium          |
| 6. Inventory abandoned wells and mines, and plan for remediation.  | Conservation Districts,<br>Conservation Groups,<br>DEP            | DEP, EPA, Private<br>Sources, Foundations         | Medium          |

**Goal 2-5: Work with the agricultural community to implement best management practices and maintain land for agricultural uses.**

| <u>Method to Achieve Goal:</u>   | <u>Potential Partners</u>   | <u>Potential Funding</u>                           | <u>Priority</u> |
|--|---|--|-----------------|
| 1. Promote conservation practices, such as cover crops, crop residue, contour strips, riparian buffers, barnyard stabilization, nutrient management planning, streambank fencing, and responsible pesticide/herbicide use. | NRCS, Municipalities,<br>Conservation Districts,<br>Conservation Groups,<br>Cooperative Extension,<br>PDA | DEP, NRCS, PDA,<br>Private Sources,<br>Foundations | High            |

**Goal 2-5: Work with the agricultural community to implement best management practices and maintain land for agricultural uses (continued).**

| <i>Method to Achieve Goal:</i>  | <i>Potential Partners</i>  | <i>Potential Funding</i>                                    | <i>Priority</i> |
|---|--|---|-----------------|
| 2. Implement a riparian restoration program to install streambank fencing to exclude livestock from streams, stabilize stream crossings, provide alternative watering sources, and enhance riparian corridors with plantings of native species. | Municipalities, Conservation Groups, Conservation Districts, Cooperative Extension, PDA, NRCS, PennDOT | DEP, NRCS, PGC, Private Sources, Foundations                | High            |
| 3. Encourage agricultural landowners to develop nutrient management plans to boost activity and protect water resources.  | Conservation Districts, Conservation Groups, NRCS  | DEP, EPA, Private Sources, Foundations, Cost Share Programs | Medium          |
| 4. Encourage landowners to enroll in cost-incentive programs, such as Environmental Quality Incentive Program, Conservation Reserve Enhancement Program, Conservation Reserve Program, Agricultural Security Program, etc.                      | Conservation Groups, Cooperative Extension, Municipalities, Conservation Districts, NRCS               | DEP, NRCS, PGC, Private Sources, Foundations                | Medium          |

**Goal 2-6: Work with forestland owners to implement best management practices on their property.**

| <i>Method to Achieve Goal:</i>   | <i>Potential Partners</i>                   | <i>Potential Funding</i>                | <i>Priority</i> |
|--|---|---|-----------------|
| 1. Enforce forestry and logging laws.  | Logging Companies, Conservation Groups, DEP | DCNR, DEP, Private Sources, Foundations | High            |
| 2. Forestland owners should work with a professional forester to manage their land in a sustainable way. | Forestland Owners, Foresters, DCNR          | DCNR, Private Sources, Foundations      | Medium          |
| 3. Forestland owners should develop a Forest Management Plan for their property.                         | Forestland Owners, DCNR                     | DCNR, Private Sources, Foundations      | Medium          |

**Goal 2-7: Identify, inventory, cleanup illegal dumpsites, and prosecute violators using illegal dumpsites.**

| <i>Method to Achieve Goal:</i>  | <i>Potential Partners</i>  | <i>Potential Funding</i>          | <i>Priority</i> |
|---|--|-----------------------------------|-----------------|
| 1. Monitor dumpsites for recent activity and prosecute violators.   | Conservation Groups, Police Departments, County Prosecutors, Counties, Solid Waste Authorities, PA CleanWays | Private Sources, Foundations      | Medium          |
| 2. Encourage PA CleanWays to conduct illegal dump surveys in Cameron, Clearfield, Clinton, and Potter counties. | Conservation Groups, Counties, Solid Waste Authorities, PA CleanWays, PennDOT                                | DEP, Private Sources, Foundations | Medium          |
| 3. Establish PA CleanWays chapters or affiliates in Cameron, Clearfield, and Potter counties.                   | Conservation Groups, Civilian Groups, Solid Waste Authorities, PA CleanWays, PennDOT                         | DEP, Private Sources, Foundations | Medium          |

**Goal 2-8: Promote local agricultural and forestry products, producers, markets, and related program.**

| <u>Method to Achieve Goal:</u>   | <u>Potential Partners</u>  | <u>Potential Funding</u>          | <u>Priority</u> |
|--|--|-----------------------------------|-----------------|
| 1. Encourage community support for small "family" farms through "Buy Local" campaigns and farmers markets.   | Conservation Groups, Cooperative Extensions, Agricultural Land Owners, Citizens, PDA | Private Sources, Foundations      | Medium          |
| 2. Promote the importance and economic viability of small farms through marketing, education, and creation of avenues for adding value to locally produced agricultural commodities. | Conservation Groups, Citizens, Cooperative Extensions, Agricultural Landowners, PDA  | Private Sources, Foundations      | Medium          |
| 3. Establish periodic peer-to-peer tours highlighting best management practices utilized by forest and agricultural landowners.  | Conservation Districts, Conservation Groups, Cooperative Extensions, PDA, NRCS       | DEP, Private Sources, Foundations | Low             |

**Goal 2-9: Minimize the risk of injury, property damages, and financial hardship caused by inactive and abandoned mine sites.**

| <u>Method to Achieve Goal:</u>  | <u>Potential Partners</u>                        | <u>Potential Funding</u>                    | <u>Priority</u> |
|---|--|---|-----------------|
| 1. Seal abandoned and inactive mine entrances to eliminate unauthorized access.   | Conservation Districts, Conservation Groups, DEP | DEP, EPA, Private Sources, Foundations      | Medium          |
| 2. Determine areas at risk for mine subsidence by mapping inactive, closed, and abandoned mines.  | Landowners, DEP                                  | DEP, Foundations, Private Sources           | Medium          |
| 3. Homeowners with property susceptible to mine subsidence should secure insurance through the Pennsylvania Mine Subsidence Insurance Fund. | Landowners, DEP                                  | DEP, Foundations, Private Sources           | Low             |
| 4. Develop a web-based abandoned mine mapping database.   | DEP, BAMR, OSM, WPCAMR                           | DEP, EPA, OSM, Private Sources, Foundations | Low             |

**Water Resources****Goal 3-1: Reduce erosion and sedimentation and minimize impacts when they reach area waterways.**

| <u>Method to Achieve Goal:</u>   | <u>Potential Partners</u>  | <u>Potential Funding</u>                       | <u>Priority</u> |
|--|--|--|-----------------|
| 1. Establish a permit process requiring all earth moving industries to abide by the same erosion and sedimentation control standards, and strengthen requirements on steep sloped areas. | Conservation Groups, Conservation Districts, Legislators, Resource Extraction Industries, DEP, PDA | DEP, Legislature, Private Sources, Foundations | High            |
| 2. Incorporate environmentally sensitive construction and maintenance techniques on dirt and gravel roads.   | Conservation Groups, Conservation Districts, Municipalities, DEP, PennDOT                          | DEP, EPA, Private Sources, Foundations         | High            |

**Goal 3-1: Reduce erosion and sedimentation and minimize impacts when they reach area waterways (continued).**

| <i>Method to Achieve Goal:</i>   | <i>Potential Partners</i>                              | <i>Potential Funding</i>                     | <i>Priority</i> |
|--|--|--|-----------------|
| 3. Incorporate best management practices to control erosion and sedimentation in any earth moving activity, including farming, forestry, development, and mining industries. | Conservation Groups, Conservation Districts, DEP, NRCS | DEP, EPA, NRCS, Private Sources, Foundations | High            |
| 4. Conduct a watershed assessment to determine sources of sedimentation, and develop strategies to reduce impacts by implementing best management practices.                 | Conservation Groups, Conservation Districts, DEP       | DEP, EPA, Private Sources, Foundations       | Medium          |

**Goal 3-2: Minimize potential flooding damages by taking a proactive approach to managing floodplains.**

| <i>Method to Achieve Goal:</i>  | <i>Potential Partners</i>   | <i>Potential Funding</i>                       | <i>Priority</i> |
|---|---|--|-----------------|
| 1. Discourage development of primary and secondary residences in floodplain areas.  | Conservation Groups, Planning Commissions, Municipalities, SEO          | PEMA, FEMA, Private Sources, Foundations       | High            |
| 2. Establish adequate riparian area vegetation and floodplain integrity to limit degradation of water quality and biological resources, and identify areas where floodplains can be re-established. | Conservation Districts, Conservation Groups, Municipalities, PEMA, NRCS | NRCS, DEP, EPA, Private Sources, Foundations   | High            |
| 3. Conduct a detailed flood-prone area assessment and update floodplain maps.   | Municipalities, Planning Commissions, Conservation Groups, PEMA, FEMA   | PEMA, FEMA, DCED, Private Sources, Foundations | Medium          |
| 4. Acquire properties that are frequently impacted by serious flooding and convert them into open spaces, such as parks or natural areas.   | Conservation Districts, DEP, EPA, FEMA, PEMA, DCED                      | PEMA, FEMA, DCED, Private Sources, Foundations | Medium          |
| 5. Implement channel improvement projects that use natural stream channel design techniques and/or bioremediation techniques to decrease flooding.  | Conservation Districts, Conservation Groups, PFBC, DEP                  | PFBC, DEP, Private Sources, Foundations        | Medium          |

**Goal 3-3: Utilize riparian corridors to improve water quality and wildlife habitat.**

| <i>Method to Achieve Goal:</i>   | <i>Potential Partners</i>   | <i>Potential Funding</i>  | <i>Priority</i> |
|--|---|---|-----------------|
| 1. Establish, enhance, and maintain vegetated buffers along waterways as a cost-effective means of controlling non-point source pollution runoff, especially along Driftwood Branch and Portage Creek. | Conservation Groups, Conservation Districts, Landowners, DEP, PennDOT | DEP, EPA, NRCS, Private Sources, Foundations, Cost-Share Programs | High            |
| 2. Encourage streamside property owners to maintain an adequate vegetative buffer from the edge of the stream.   | Conservation Groups, Conservation Districts, Landowners, DEP, PennDOT | DEP, EPA, NRCS, Private Sources, Foundations, Cost-Share Programs | High            |
| 3. Conduct an assessment of streambanks and riparian areas, and prioritize areas in need of restoration.   | Conservation Groups, Conservation Districts, Landowners, DEP, PennDOT | DEP, EPA, NRCS, Private Sources, Foundations, Cost-Share Programs | Medium          |

**Goal 3-3: Utilize riparian corridors to improve water quality and wildlife habitat (continued).**

| <u>Method to Achieve Goal:</u>  | <u>Potential Partners</u>   | <u>Potential Funding</u>  | <u>Priority</u> |
|---|---|---|-----------------|
| 4. Increase wildlife habitat by planting diverse native plant communities along riparian buffers. | Conservation Groups, Conservation Districts, Landowners, DEP, PFBC, USACE | DEP, EPA, NRCS, Private Sources, Foundations, Cost-Share Programs | Medium          |

**Goal 3-4: Protect wetlands.**

| <u>Method to achieve goal:</u>  | <u>Potential Partners</u>                                      | <u>Potential Funding</u>                | <u>Priority</u> |
|---|--|---|-----------------|
| 1. Encourage state acquisition of important wetlands for protection.  | Conservation Groups, Planning Commissions, DCNR, PGC, DEP      | DEP, DCNR, Private Sources, Foundations | High            |
| 2. Protect wetland habitats and surrounding buffers for birds and wildlife, as well as their ecological services value, by limiting development, stormwater runoff, and other disturbances. | Conservation Groups, Planning Commissions, DCNR, PGC, DEP      | DEP, DCNR, Private Sources, Foundations | High            |
| 3. Enhance and promote programs that restore wetlands to agricultural and streamside areas of limited value.  | Conservation Groups, Planning Commissions, DCNR, PGC, DEP      | DEP, Private Sources, Foundations       | Medium          |
| 4. Modify municipal ordinances to protect wetland areas that are of biological importance.  | Conservation Groups, Municipalities, Planning Commissions, DEP | DEP, DCED, Private Sources              | Medium          |

**Goal 3-5: Minimize abandoned mine drainage and impacts of abandoned mine drainage on area waterways.**

| <u>Method to achieve goal:</u>   | <u>Potential Partners</u>  | <u>Potential Funding</u>                    | <u>Priority</u> |
|--|--|---|-----------------|
| 1. Encourage active mine sites to take precautions to prevent future discharges by conducting land liming, alkaline addition, and filling mine voids with flyash.  | Conservation Districts, Conservation Groups, DEP, BAMR, OSM, EPA | DEP, EPA, OSM, Private Sources, Foundations | High            |
| 2. Address impacts from abandoned mine drainage in Sterling Run, West Creek, and Bennett Branch subwatersheds.   | Conservation Groups, Conservation Districts, DEP, BAMR, OSM      | DEP, EPA, OSM, Private Sources, Foundations | Medium          |
| 3. Conduct an assessment of abandoned mine drainage contamination, and develop a prioritized remediation and implementation plan.  | Conservation Districts, Conservation Groups, DEP, BAMR, OSM      | DEP, EPA, OSM, Private Sources, Foundations | Medium          |
| 4. Identify areas where water is lost to underground mines, which contribute to the production of land voids, and develop remediation strategies.  | Conservation Districts, Conservation Groups, DEP, BAMR, OSM, EPA | DEP, EPA, OSM, Private Sources, Foundations | Medium          |
| 5. Implement strategies to remediate abandoned mine drainage, including the upgrading of treatment systems based on continued monitoring results and identifying discharges with suitable deposits of iron oxide for recovery. | Conservation Districts, Conservation Groups, DEP, BAMR, OSM      | DEP, EPA, OSM, Private Sources, Foundations | Medium          |

**Goal 3-6: Monitor water quality and quantity.**

| <u>Method to Achieve Goal:</u>   | <u>Potential Partners</u>   | <u>Potential Funding</u>                     | <u>Priority</u> |
|--|---|--|-----------------|
| 1. Study and monitor the effects of well drilling and fracing on surface water and groundwater to determine impacts on water quality and quantity, and work to minimize those impacts.                       | Conservation Groups, Conservation Districts, DEP                      | DEP, EPA, Private Sources, Foundations       | High            |
| 2. Develop a water budget in order to better understand the sources and amounts of water available and the types of development activity that can be supported with the available resources.                 | USGS, Conservation Groups, Conservation Districts, PFBC, DEP          | USGS, DEP, EPA, Private Sources, Foundations | Medium          |
| 3. Encourage area residents to monitor groundwater levels in critical areas to be used as baseline data to determine loss of groundwater.  | Conservation Groups, Conservation Districts, Citizens, Schools        | DEP, EPA, Private Sources, Foundations       | Medium          |
| 4. Develop a locally-based program for disseminating information about protecting private well supplies to homeowners; include information about bacteria in wells, since the issue is common in the region. | Conservation Groups, Conservation Districts, DEP, LWV, RWA            | DEP, WREN, Private Sources, Foundations      | Medium          |
| 5. Conduct source water or well-head protection plans, in order to identify and protect drinking water sources, especially in the Nanny Run area.  | Conservation Groups, Conservation Districts, Municipalities, LWV, RWA | WREN, Private Sources, Foundations           | Medium          |
| 6. Assess the need and desire for increased or improved public water supplies, especially in Driftwood.  | Municipalities, Conservation Groups, DEP, RWA                         | DCED, Private Sources, Foundations           | Low             |

**Goal 3-7: Reduce impacts caused by point and non-point source impairments.**

| <u>Method to Achieve Goal:</u>  | <u>Potential Partners</u>                                  | <u>Potential Funding</u>                        | <u>Priority</u> |
|---|--|---|-----------------|
| 1. Install best management practices to decrease erosion and sedimentation along dirt and gravel roadways.  | Conservation Groups, Municipalities, DEP, PennDOT          | DEP, EPA, Private Sources, Foundations          | High            |
| 2. Encourage the transfer of permit violation fees to Sinnemahoning Stakeholders Committee to be incorporated into the Sinnemahoning Watershed Grant Program. | Sinnemahoning Stakeholder Committee, Headwaters RC&D, DEP  | DEP   | Medium          |
| 3. Utilize and support updates to the Pennsylvania Non-Point Source Management Plan.  | Conservation Groups, DEP, NRCS, PDA                        | DEP, Private Sources, Foundations               | Medium          |
| 4. Determine the impacts on water quality of salt and ash used for snow/ice removal, and investigate alternatives.  | Conservation Groups, Municipalities, Universities, PennDOT | DEP, EPA, PennDOT, Private Sources, Foundations | Medium          |

**Goal 3-8: Conduct an assessment of natural and man-made impoundments, and implement recommendations to enhance their ecosystems.**

| <u>Method to Achieve Goal:</u>  | <u>Potential Partners</u>   | <u>Potential Funding</u>                           | <u>Priority</u> |
|---|---|--|-----------------|
| 1. Inventory dams for their uses, and evaluate maintenance versus removal of those dams, while considering public safety, recreation, and present use.  | Conservation Groups, Conservation Districts, American Rivers, DEP, USACE  | DEP, EPA, Private Sources, Foundations             | Medium          |
| 2. Assess, control, monitor, and mitigate exotic species that directly affect lake uses.  | Conservation Groups, Conservation Districts, DEP, PALMS                   | DEP, EPA, Private Sources, Foundations             | Medium          |
| 3. Assess and inventory lakes and ponds in the watershed for size, use, water quality, and aquatic life.  | Conservation Groups, Conservation Districts, DEP, PALMS, DCNR             | DEP, EPA, DCNR, Private Sources, Foundations       | Medium          |
| 4. Investigate the cause of the decreased flow to First Fork Sinnemahoning Creek and the George B. Stevenson Dam reservoir at Sinnemahoning State Park during Summer 2008, and implement conservation practices to prevent similar future events. | Conservation Groups, Conservation Districts, DEP, DCNR, PFBC, USACE, USGS | DEP, PFBC, DCNR, Private Sources, Foundations      | Medium          |
| 5. Work with landowners where old dams are located to educate them about benefits of removing old dams, such as the Pickrick Dam in Driftwood.  | Conservation Groups, American Rivers, DEP, PFBC                           | DEP, American Rivers, Private Sources, Foundations | Medium          |
| 6. Encourage operators to protect aquatic life and stream habitats by gradually discharging overflows from flood control structures.  | Conservation Groups, USACE, DCNR, DEP, PFBC                               | USACE, PFBC, DCNR, Private Sources                 | Medium          |

**Goal 3-9: Establish and implement water conservation practices to reduce water consumption.**

| <u>Method to achieve goal:</u>  | <u>Potential Partners</u>                                     | <u>Potential Funding</u>                | <u>Priority</u> |
|---|---|---|-----------------|
| 1. Launch a watershed-wide water conservation program to educate the public about the value of reducing water consumption and utilizing water conservation products and techniques. | Conservation Groups, Conservation Districts, DEP              | DEP, WREN, Private Sources, Foundations | Medium          |
| 2. Work with landowners and developers to incorporate environmentally friendly water conservation practices in their homes and businesses.  | Conservation Groups, Developers, Legislators, DEP             | Private Sources                         | Medium          |
| 3. Establish guidelines that require installation of low-flow devices for all new construction.   | Conservation Groups, Developers, Legislators, DEP             | DEP, Private Sources                    | Medium          |
| 4. Establish an ongoing program for regional schools to promote water conservation.   | Conservation Groups, Conservation Districts, Schools          | DEP, Private Sources, Foundations       | Medium          |
| 5. Promote and establish a program for retrofitting homes and businesses for water conservation practices through tax breaks, rebates, and other incentives.                        | Conservation Groups, Developers, Legislators, Landowners, DEP | DEP, Private Sources                    | Medium          |

**Goal 3-10: Minimize impacts from stormwater through comprehensive stormwater management planning.**

| <u>Method to Achieve Goal:</u>  | <u>Potential Partners</u>   | <u>Potential Funding</u>                | <u>Priority</u> |
|---|---|---|-----------------|
| 1. Incorporate water quality design and pollution reduction strategies in stormwater management, especially in Emporium and St. Marys where stormwater flows directly into the waterways. | Conservation Districts, Conservation Groups, Counties, Planning Commissions                 | DEP, DCED, Private Sources, Foundations | Medium          |
| 2. Develop and implement a watershed-wide stormwater management plan.   | Conservation Districts, Conservation Groups, Planning Commissions, Municipalities, Counties | DEP, DCED, Private Sources, Foundations | Medium          |
| 3. Develop a demonstration area of stormwater best management practices that incorporates water quality improvement techniques.   | Conservation Districts, Conservation Groups, Counties, Planning Commissions                 | DEP, DCED, Private Sources, Foundations | Medium          |

**Goal 3-11: Develop a collaborative watershed monitoring plan, integrating quality assurance and quality control standards.**

| <u>Method to Achieve Goal:</u>   | <u>Potential Partners</u>   | <u>Potential Funding</u>                | <u>Priority</u> |
|--|---|---|-----------------|
| 1. Establish watershed monitoring protocols to be used by each organization participating in watershed monitoring, and develop a centralized database where all monitoring data can be compiled and made available to the public and other groups. | Conservation Groups, Conservation Districts, DEP, PFBC, DCNR                      | DEP, EPA, Private Sources, Foundations  | Medium          |
| 2. Incorporate school districts, community groups, and interested residents to participate in water quality monitoring programs, such as DCNR's Watershed Education Program.   | Conservation Groups, Conservation Districts, Community Groups, Schools, Residents | DEP, WREN, Private Sources, Foundations | Medium          |
| 3. Conduct seasonal chemical, biological, and visual assessments for at least one year to provide background data for prioritization of future projects.   | Conservation Groups, Conservation Districts, DEP, PFBC, DCNR                      | DEP, EPA, Private Sources, Foundations  | Medium          |

**Goal 3-12: Encourage and support alternative and traditional sewage treatment opportunities to reduce sewage pollution entering streams and groundwater.**

| <u>Method to Achieve Goal:</u>  | <u>Potential Partners</u>  | <u>Potential Funding</u>                     | <u>Priority</u> |
|---|--|--|-----------------|
| 1. Work with municipalities and landowners to install proper septic tanks, wastewater treatment systems, or other alternatives to reduce the amount of untreated sewage entering streams and groundwater.       | Conservation Groups, Municipalities, Landowners, Municipal Authorities, DEP, DCED, SEO | DEP, DCED, Private Sources, Foundations      | Medium          |
| 2. Establish county or regional wastewater management systems, providing alternative sewage treatment options in rural communities, similar to program established in Broadtop Township, Huntington County, Pa. | Conservation Groups, Municipalities, Landowners, Municipal Authorities, DEP, DCED, SEO | DEP, DCED, EPA, Private Sources, Foundations | Medium          |

**Goal 3-12: Encourage and support alternative and traditional sewage treatment opportunities to reduce sewage pollution entering streams and groundwater (continued).**

| <i>Method to Achieve Goal:</i>   | <i>Potential Partners</i>   | <i>Potential Funding</i>                | <i>Priority</i> |
|--|---|---|-----------------|
| 3. Encourage municipalities with older Act 537 Sewage Facility Plans to update their plans to prepare for potential developments spurred by PA Wilds initiative. | Municipalities, Conservation Groups, Municipal Authorities, DEP, DCED | DEP, DCED, Private Sources, Foundations | Medium          |

**Goal 3-13: Investigate methods to reduce impacts of acidic precipitation.**

| <i>Method to Achieve Goal:</i>  | <i>Potential Partners</i>                                  | <i>Potential Funding</i>               | <i>Priority</i> |
|---|--|--|-----------------|
| 1. Develop a monitoring network to identify area streams impaired by acid precipitation and its effects on aquatic life.                              | Conservation Groups, Conservation Districts, Citizens, DEP | DEP, EPA, Private Sources, Foundations | Medium          |
| 2. Continue conducting the liming project on Laurel Run, while investigating alternative methods to increase the streams alkalinity.                  | Conservation Groups, Conservation Districts, DEP           | DEP, EPA, Private Sources, Foundations | Medium          |
| 3. Conduct an alkalinity study and implement in-stream liming to adjust alkalinity levels, focusing on Medix Run, Mix Run, and headwater tributaries. | Conservation Groups, Conservation Districts, DEP           | DEP, EPA, Private Sources, Foundations | Medium          |

**Goal 3-14: Further investigate wetlands and their functions.**

| <i>Method to achieve goal:</i>   | <i>Potential Partners</i>  | <i>Potential Funding</i>                      | <i>Priority</i> |
|--|--|---|-----------------|
| 1. Protect hydrology supporting wetlands.  | Conservation Groups, Planning Commissions, DCNR, PGC, DEP          | DEP, Private Sources, Foundations             | Medium          |
| 2. Update wetland maps and develop a digital coverage database.  | Conservation Groups, Planning Commissions, DCNR, PGC, DEP, PennDOT | DEP, Private Sources, Foundations             | Medium          |
| 3. Inventory and assess the functionality of watershed wetlands, and develop restoration strategies based upon the assessment. | Conservation Groups, Planning Commissions, DCNR, PGC, DEP          | DEP, DCNR, Private Sources, Foundations       | Medium          |
| 4. Study the impacts that economic development has had on historical wetland loss.   | Conservation Groups, Planning Commissions, DCNR, PGC, DEP          | DEP, DCNR, DCED, Private Sources, Foundations | Low             |
| 5. Encourage interstate collaboration to standardize methods used to delineate and identify wetlands.                          | Conservation Groups, Legislators, DEP, EPA, USACE, PennDOT         | EPA, USACE, DEP, Legislature                  | Low             |

## Biological Resources

### Goal 4-1: Implement best management practices to protect forest resources.

| <i>Method to achieve goal</i>   | <i>Potential Partners</i>  | <i>Potential Funding</i>                | <i>Priority</i> |
|---|--|---|-----------------|
| 1. Promote tree plantings, sustainable harvesting, and other best management practices.   | Conservation Groups, Landowners, Civic Groups, DCNR                | DCNR, Private Sources, Foundations      | High            |
| 2. Encourage cooperation between conservation districts and state agencies to enforce regulations on the logging industry to minimize erosion and sedimentation.  | Conservation Groups, Conservation Districts, Landowners, DCNR, DEP | DCNR, Private Sources, Foundations      | High            |
| 3. Discourage the use of high-grading practices, such as diameter-limit harvest and selective cutting, and encourage timber harvesters to use sustainable best management practices based upon forest type and size under the direction of a professional forester. | Conservation Groups, Landowners, DCNR                              | DCNR, Private Sources, Foundations      | Medium          |
| 4. Work with woodland owner associations to educate the public, restore degraded areas, and develop demonstration areas.  | Conservation Groups, Landowners, DCNR                              | DCNR, Private Sources, Foundations      | Medium          |
| 5. Decrease forest fragmentation by maintaining contiguous forest tracts and/or travel corridors between existing non-contiguous forest tracts.   | Conservation Groups, Sportsmen Groups, Landowners, DCNR            | DCNR, PGC, Private Sources, Foundations | Medium          |

### Goal 4-2: Increase the use of native plants.

| <i>Method to achieve goal</i>   | <i>Potential Partners</i>                                  | <i>Potential Funding</i>           | <i>Priority</i> |
|---|--|------------------------------------|-----------------|
| 1. Promote native tree plantings in remediation projects, such as streambank fencing or streambank stabilization. | Conservation Groups, Conservation Districts, DCNR          | DCNR, Private Sources, Foundations | High            |
| 2. Encourage the use of native plants in landscaping, wildlife habitat plantings, and educational activities.     | Conservation Groups, Conservation Districts, DCNR, PennDOT | DCNR, Private Sources, Foundations | High            |
| 3. Promote native tree plantings as part of surface mine reclamation plans.                                       | Conservation Groups, Conservation Districts, DCNR          | DCNR, Private Sources, Foundations | Medium          |
| 4. Conduct an assessment and develop a management plan for native species.  | Conservation Groups, Conservation Districts, DCNR          | DCNR, Private Sources, Foundations | Medium          |
| 5. Establish a reserve seed bank of native species that can be used in remediation efforts.                       | Conservation Groups, Conservation Districts, DCNR          | DCNR, Private Sources, Foundations | Medium          |

**Goal 4-3: Enhance aquatic habitats.**

| <i>Method to achieve goal</i>   | <i>Potential Partners</i>  | <i>Potential Funding</i>                                 | <i>Priority</i> |
|---|--|--|-----------------|
| 1. Incorporate aquatic habitat improvements into streambank stabilization and water quality remediation projects.   | Conservation Groups, Landowners, DEP, PFBC                               | DEP, PFBC, Private Sources, Foundations                  | High            |
| 2. Improve aquatic habitat for fish, mussels, and other organisms by implementing best management practices and other restoration activities.             | Conservation Groups, Landowners, DEP, PFBC                               | DEP, PFBC, Private Sources, Foundations                  | Medium          |
| 3. Increase habitat and passage for fish, mussels, and other aquatic organisms by removing dams on small tributaries and maintaining stable flow regimes. | Conservation Groups, Landowners, DEP, PFBC, USACE                        | DEP, PFBC, American Rivers, Private Sources, Foundations | Medium          |
| 4. Utilize volunteers to quantify the amount of large woody debris in key stream reaches and headwater areas.   | Conservation Groups, Conservation Districts, Sportsmen Groups, PFBC, DEP | PFBC, DEP, Private Sources, Foundations                  | Low             |

**Goal 4-4: Identify and protect important habitats for plant and animal species.**

| <i>Method to achieve goal</i>  | <i>Potential Partners</i>                              | <i>Potential Funding</i>                 | <i>Priority</i> |
|--|--|--|-----------------|
| 1. Identify high quality wetlands located in the watershed.  | Conservation Groups, DCNR, DEP, PFBC                   | DCNR, DEP, Private Sources, Foundations  | High            |
| 2. Encourage landowners of fallow fields to delay mowing until July to protect ground nesting sites.   | Conservation Groups, Landowners, PNHP, PFBC, DCNR, PGC | DCNR, PFBC, Private Sources, Foundations | High            |
| 3. Identify and protect additional environmentally sensitive areas and areas of high biodiversity.   | Conservation Groups, Landowners, PNHP, PFBC, DCNR      | DCNR, PFBC, Private Sources, Foundations | Medium          |
| 4. Encourage a no mowing strategy for some fields in public ownership allowing them to regrow and provide habitat for wildlife.                              | Conservation Groups, Landowners, PNHP, PFBC, DCNR, PGC | DCNR, PFBC, Private Sources, Foundations | Medium          |
| 5. Encourage farmers to delay the first hay harvest until July providing young wildlife the opportunity to mature, if economic situation permits.            | Conservation Groups, Landowners, PNHP, PFBC, DCNR, PGC | DCNR, PFBC, Private Sources, Foundations | Medium          |
| 6. Monitor activities in critical habitat areas.   | Conservation Groups, Landowners, DCNR                  | DCNR, PGC, Private Sources, Foundations  | Medium          |
| 7. Maintain grassland species habitats on public lands through practices, such as controlled burns and limited mowing activity.                              | Conservation Groups, Landowners, PNHP, PFBC, DCNR      | DCNR, PFBC, Private Sources, Foundations | Medium          |
| 8. Establish more private backyard conservation areas to serve as wildlife habitat and travel corridors by providing activities and programs for landowners. | Conservation Groups, Landowners, PNHP, PFBC, DCNR      | DCNR, PFBC, Private Sources, Foundations | Medium          |
| 9. Preserve native habitats by using smart land use planning strategies as defined in the Project Area Characteristics section.                              | Conservation Groups, Landowners, PNHP, PFBC, DCNR      | DCNR, PFBC, Private Sources, Foundations | Medium          |

**Goal 4-5: Protect rare, threatened, and endangered species and their habitats.**

| <u>Method to achieve goal</u>   | <u>Potential Partners</u>                                    | <u>Potential Funding</u>                      | <u>Priority</u> |
|---|--|---|-----------------|
| 1. Develop monitoring strategies and management plans for species of concern that are particularly vulnerable to habitat destruction by working with Pennsylvania Natural Heritage Program.                                     | Conservation Groups, Landowners, PNHP, PFBC, DCNR, PGC       | DCNR, PFBC, PGC, Private Sources, Foundations | Medium          |
| 2. Protect or improve habitats that support species of concern through acquisition, easements, and/or landowner education.  | Conservation Groups, Landowners, PNHP, PFBC, DCNR, PGC       | DCNR, PFBC, PGC, Private Sources, Foundations | Medium          |
| 3. Appoint a liaison to work with a member of the PA Biological Survey to submit recent identification of rare, threatened, and endangered species within the watershed and to report the condition of these species' habitats. | Conservation Groups, Landowners, PNHP, PFBC, DCNR, PGC, PABS | DCNR, PFBC, Private Sources, Foundations      | Medium          |

**Goal 4-6: Identify Important Bird and Mammal Areas.**

| <u>Method to achieve goal</u>   | <u>Potential Partners</u>                                   | <u>Potential Funding</u>                                 | <u>Priority</u> |
|---|---|--|-----------------|
| 1. Identify specific recommendations to improve habitat related to Important Bird Areas and Important Mammal Areas.     | Conservation Groups, Landowners, PGC, DCNR, Audubon Society | DCNR, PGC, Audubon Society, Private Sources, Foundations | Medium          |
| 2. Partner with local Audubon chapters and birding clubs to identify, characterize, and recommend Important Bird Areas. | Conservation Groups, Landowners, DCNR, Audubon Society      | DCNR, Audubon Society, Private Sources, Foundations      | Medium          |
| 3. Identify and recommend Important Mammal Areas to expand upon areas already designated.                               | Conservation Groups, Landowners, PGC                        | DCNR, PGC, Private Sources, Foundations                  | Medium          |

**Goal 4-7: Implement wildlife management practices to protect biodiversity.**

| <u>Method to achieve</u>  | <u>Potential Partners</u>                                    | <u>Potential Funding</u>                | <u>Priority</u> |
|---|--|---|-----------------|
| 1. Work with sportsmen's groups and landowners to increase public and private lands available for hunting.  | Conservation Groups, Sportsmen Groups, Landowners, DCNR, PGC | PGC, Private Sources, Foundations       | High            |
| 2. Support laws, regulations, and programs to maintain whitetail deer populations at levels that will ensure healthy forests, productive agricultural lands, and healthy deer populations.            | Conservation Groups, Sportsmen Groups, DCNR, PGC             | PGC, Private Sources, Foundations       | High            |
| 3. Follow the goals and objectives, as well as elk habitat management practices, as identified in the <i>Management Plan for Elk in Pennsylvania</i> (PGC, 2006) when managing elk herds and habitat. | Conservation Groups, Sportsmen Groups, DCNR, PGC             | DCNR, PGC, Private Sources, Foundations | Medium          |
| 4. Foster continued involvement in hunting activities among all age groups, and educate hunters on the importance of population control.  | Conservation Groups, Sportsmen Groups, DCNR, PGC             | PGC, Private Sources, Foundations       | Medium          |

**Goal 4-7: Implement wildlife management practices to protect biodiversity (continued).**

| <u>Method to achieve</u>   | <u>Potential Partners</u>                                    | <u>Potential Funding</u>                | <u>Priority</u> |
|--|--|---|-----------------|
| 5. Promote and support deer management strategies, such as special hunting tags and deer exclosures in natural areas.  | Conservation Groups, Sportsmen Groups, DCNR, PGC             | PGC, Private Sources, Foundations       | Medium          |
| 6. Survey and develop management techniques for unique species, such as bald eagles, elk, timber rattlesnakes, bobcats, etc.   | Conservation Groups, Sportsmen Groups, Landowners, DCNR, PGC | PGC, Private Sources, Foundations       | Medium          |
| 7. Study the occurrence of fern overabundance to determine causes; and develop an approach to restore natural biodiversity in those areas using integrated pest management and native plant restoration. | Conservation Groups, Sportsmen Groups, Landowners, DCNR, PGC | PGC, DCNR, Private Sources, Foundations | Medium          |
| 8. Encourage private landowners to register their land in Deer Management Assistance Program to keep deer herds at ecologically healthy levels.  | Conservation Groups, Sportsmen Groups, DCNR, PGC             | PGC, Private Sources, Foundations       | Medium          |
| 9. Develop areas for wildlife viewing and education to raise awareness about biodiversity.   | Conservation Groups, Sportsmen Groups, Landowners, DCNR, PGC | PGC, Private Sources, Foundations       | High            |
| 10. Determine or confirm the presence of mountain lions within the watershed through hunter/landowner education and surveys, evidence documentation, etc.  | Conservation Groups, Sportsmen Groups, Landowners, DCNR, PGC | PGC, Private Sources, Foundations       | Low             |

**Goal 4-8: Monitor and control invasive species, pests, and diseases.**

| <u>Method to achieve goal</u>   | <u>Potential Partners</u>  | <u>Potential Funding</u>           | <u>Priority</u> |
|---|--|------------------------------------|-----------------|
| 1. Continue implementing invasive species control projects at known sites using caution not to disperse seeds and spread invasive species to other areas of the watershed.      | Conservation Groups, Conservation Districts, Landowners, DCNR, PennDOT | DCNR, Private Sources, Foundations | Medium          |
| 2. Develop a prioritized early detection and rapid response control strategy for removing invasive species (plant and animal) by partnering with public and private landowners. | Conservation Groups, Conservation Districts, DCNR, Landowners          | DCNR, Private Sources, Foundations | Medium          |
| 3. Monitor riparian buffers for invasive species, and implement control practices.  | Conservation Groups, Conservation Districts, Landowners, DCNR          | DCNR, Private Sources, Foundations | Medium          |
| 4. Conduct a watershed-wide invasive species plant survey to develop a list of areas where invasive species pose the greatest threats to biodiversity.                          | Conservation Groups, Conservation Districts, DCNR                      | DCNR, Private Sources, Foundations | Medium          |

**Goal 4-8: Monitor and control invasive species, pests, and diseases (continued).**

| <i>Method to achieve goal</i>  | <i>Potential Partners</i>  | <i>Potential Funding</i>           | <i>Priority</i> |
|--|--|------------------------------------|-----------------|
| 5. Develop a demonstration project to control invasive species, and restore natural communities, while providing educational opportunities at Sinnemahoning, Sizerville, and Parker Dam State Parks. | Conservation Groups, Conservation Districts, DCNR  | DCNR, Private Sources, Foundations | Medium          |
| 6. Compile a publicly accessible Internet database of exotic and invasive species that allows moderated submissions from the public.   | Conservation Groups, Conservation Districts, DCNR  | DCNR, Private Sources, Foundations | Low             |
| 7. Develop a partnership and build on lessons learned from Natural Biodiversity and National Park Service invasive species control projects.   | Conservation Groups, Conservation Districts, National Park Service, Natural Biodiversity, DCNR | DCNR, Private Sources, Foundations | Low             |

**Goal 4-9: Identify and protect biologically diverse areas.**

| <i>Method to achieve goal</i>   | <i>Potential Partners</i>  | <i>Potential Funding</i>  | <i>Priority</i> |
|---|--|---|-----------------|
| 1. Develop an incentive program to encourage and reward landowners who develop management plans, decrease development, and employ other conservation practices in and around riparian corridors and biologically diverse areas. | Conservation Groups, Sportsmen Groups, Landowners, DCNR, PGC, DEP  | DCNR, DEP, PGC, Cost-share Programs, Private Sources, Foundations | Medium          |
| 2. Restrict activities, such as grazing and off-road vehicles, and control invasive species within biological diversity areas.  | Conservation Groups, Landowners, DCNR, PGC                         | DCNR, Private Sources, Foundations                                | Medium          |
| 3. Establish biodiversity indices for selected stream segments to document the current status of biodiversity and to track changes over time as management recommendations are implemented.                                     | Conservation Groups, Sportsmen Groups, DCNR, DEP, PFBC, USFWS      | DEP, DCNR, PFBC, PGC, USFWS, Private Sources, Foundations         | Medium          |
| 4. Protect biological diversity areas through collaborative partnerships among the present owner, citizens, local organizations, and Pennsylvania Department of Transportation.   | Conservation Groups, Landowners, DCNR, PGC, PennDOT                | DCNR, Private Sources, Foundations                                | Medium          |
| 5. Work with utility companies to limit herbicide use and to utilize alternative management techniques in right-of-ways.  | Conservation Groups, Utility Company, Adjacent Landowners, PennDOT | DCNR, Private Sources, Foundations                                | Medium          |
| 6. Refine information on Biological Diversity Areas contained in County Natural Heritage Inventories.   | Conservation Groups, Counties, DCNR, PNHP, PGC, PFBC               | DCNR, Private Sources, Foundations                                | Medium          |
| 7. Implement strategies to improve habitat within Biological Diversity Areas.   | Conservation Groups, Landowners, DCNR                              | DCNR, Private Sources, Foundations                                | Medium          |

**Goal 4-9: Identify and protect biologically diverse areas (continued).**

| <i>Method to achieve goal</i>  | <i>Potential Partners</i>  | <i>Potential Funding</i>                         | <i>Priority</i> |
|--|--|--|-----------------|
| 8. Develop new biotic study areas throughout the watershed, and encourage local schools to utilize this resource, thereby fulfilling state curriculum requirements and broadening educational understanding of ecological resources. | Conservation Groups, Landowners, Universities, School Districts, DCNR, PGC | DCNR, Universities, Private Sources, Foundations | Medium          |
| 9. Develop a land steward program for Biological Diversity Areas through which volunteers would be responsible for regular monitoring of these areas and educating landowners.   | Conservation Groups, Landowners, DCNR, PGC                                 | DCNR, Private Sources, Foundations               | Low             |

**Goal 4-10: Develop, adopt, and implement management plans to protect forest and wildlife resources.**

| <i>Method to achieve goal</i>   | <i>Potential Partners</i>                                   | <i>Potential Funding</i>           | <i>Priority</i> |
|---|---|------------------------------------|-----------------|
| 1. Encourage planning departments to adopt and utilize management plans that protect forest landscapes.   | DCNR, Landowners, Conservation Groups, Planning Departments | DCNR, Private Sources, Foundations | Medium          |
| 2. Conduct studies in conjunction with the Pennsylvania Natural Heritage Program to monitor biodiversity, including surveys for historical species of concern, for which the current status is unknown.   | Conservation Groups, Sportsmen Groups, DCNR, PGC, PNHP      | DCNR, Private Sources, Foundations | Medium          |
| 3. Encourage landowners to utilize available programs and resources, such as the Private Landowner Assistance Program (PLAP), Wildlife Habitat Incentives Program (WHIP), Environmental Quality Incentive Program (EQUIP), habitat management department of PFBC and PGC, Portage Creek train derailment settlement grant programs through DEP and PFBC, Conservation Reserve Enhancement Program (CREP), and the Service Forester Program of DCNR. | PGC, PFBC, DCNR, DEP, USDA-NRCS, PDA, County FSAs           | PGC, PFBC, DCNR, DEP, USDA-NRCS    | Medium          |
| 4. Encourage the development and use of forest stewardship or forest management plans and participation in the Pennsylvania Forest Stewardship Program and/or the Tree Farm Program.  | DCNR, Landowners, Conservation Groups, Planning Departments | DCNR, Private Sources, Foundations | Medium          |
| 5. Develop detailed management plans for landowners of biologically diverse areas, including inventories of natural features and invasive or exotic species monitoring and control plans.   | Conservation Groups, Landowners, PGC, DCNR, PNHP            | DCNR, PGC, Private Sources         | Medium          |
| 6. Develop wildlife management plans.   | Conservation Groups, Landowners, PGC, DCNR                  | DCNR, PGC, Private Sources         | Medium          |
| 7. Encourage landowners to contact a Pennsylvania Game Commission biologist to develop a wildlife management plan for their property.   | Conservation Groups, Landowners, PGC, DCNR                  | PGC, Private Sources               | Low             |

**Goal 4-10: Develop, adopt, and implement management plans to protect forest and wildlife resources (continued).**

| <u>Method to Achieve Goal:</u>   | <u>Potential Partners</u>                       | <u>Potential Funding</u>           | <u>Priority</u> |
|--|---|------------------------------------|-----------------|
| 8. Conduct a more detailed assessment of the Kojancic tract and develop a plan to manage the site. | Conservation Groups, DCNR, PNHP, PGC, PFBC, WPC | DCNR, Private Sources, Foundations | Low             |

**Goal 4-11: Implement strategies to conserve rare and unique plant and animal communities.**

| <u>Method to Achieve Goal:</u>  | <u>Potential Partners</u>  | <u>Potential Funding</u>   | <u>Priority</u> |
|---|--|--|-----------------|
| 1. Conduct an eastern hellbender salamander survey on Driftwood Branch, initially, and continue investigation to other streams of the watershed to determine population distribution.   | Pittsburgh Zoo, Conservation Groups, Conservation Districts, WPC, PFBC | PFBC, USFWS, Train Derailment Settlement Funds, Private Sources, Foundations | High            |
| 2. Further investigate the unique features of the cranberry bogs, sundew colonies, and pitcher plants near Wallace Run and Beaver Dam Run.  | Conservation Groups, Conservation Districts, DCNR                      | DCNR, USFWS, PFBC, Private Sources, Foundations                              | Medium          |
| 3. Study biodiversity and habitat features and foster an appreciation of the old growth forest areas within the watershed, including the Johnson Run Natural Area, Lower Jerry Run Natural Area, and the Wycoff Run Natural Area within the Quehanna Wild Natural Area. | Conservation Groups, Conservation Districts, DCNR, PFBC, PGC           | DCNR, USFWS, Private Sources, Foundations                                    | Medium          |
| 4. Further investigate the palustine forest habitat found in the headwaters of Medix Run.   | Conservation Groups, Conservation Districts, DCNR, PGC                 | DCNR, USFWS, Private Sources, Foundations                                    | Low             |
| 5. Identify and study unique wildflower communities, such as those in the Cowley Run subwatershed.  | Conservation Groups, Conservation Districts, DCNR                      | DCNR, USFWS, Private Sources, Foundations                                    | Low             |

**Cultural Resources****Goal 5-1: Encourage environmentally sound practices when operating recreational vehicles, and enforce existing laws to minimize intrusions on private lands.**

| <u>Method to achieve goal:</u>  | <u>Potential Partners</u>  | <u>Potential Funding</u>                | <u>Priority</u> |
|---|--|---|-----------------|
| 1. Prohibit the use of recreational vehicles in areas at risk of being affected by their use, such as steep slopes, streambanks, stream crossings, and habitat for rare, threatened, or endangered species. | Conservation Groups, Police Departments, Municipalities, Counties, PGC, DCNR | DCNR, PGC, Private Sources, Foundations | High            |
| 2. Increase enforcement of illegal off-road vehicle use on private and public lands.  | Municipalities, Counties, Police Departments, DCNR                           | Police Departments, Municipalities      | High            |
| 3. Monitor the use of recreational vehicles to minimize their impacts on the environment.   | Conservation Groups, Conservation Districts, Municipalities, DEP             | DCNR, DEP, Private Sources, Foundations | High            |
| 4. Establish off-road vehicle rider education courses.  | Conservation Groups, Riding Clubs, DCNR                                      | DCNR, Private Sources, Foundations      | Medium          |

**Goal 5-1: Encourage environmentally sound practices when operating recreational vehicles, and enforce existing laws to minimize intrusions on private lands (continued).**

| <i>Method to achieve goal</i>  | <i>Potential Partners</i>  | <i>Potential Funding</i>                       | <i>Priority</i> |
|--|--|--|-----------------|
| 5. Establish environmentally sound public trails or parks for off-road vehicles.                           | Conservation Groups, Counties, Recreational Vehicle Riding Clubs, Municipalities, DCNR | DCNR, DEP, Private Sources, Foundations        | Medium          |
| 6. Conduct feasibility studies for the development of recreational areas and trails for off-road vehicles. | Recreational Vehicle Riding Clubs, Counties, Conservation Groups, Municipalities, DCNR | DCNR, Private Sources, Foundations             | Medium          |
| 7. Work with dealerships to offer incentives for customers attending riding etiquette and safety programs. | Businesses, Riding Clubs, Recreational Vehicle Conservation Groups, DCNR               | DCNR, Businesses, Private Sources, Foundations | Low             |

**Goal 5-2: Highlight and preserve historical sites and promote an appreciation for local history.**

| <i>Method to achieve goal</i>  | <i>Potential Partners</i>                            | <i>Potential Funding</i>     | <i>Priority</i> |
|--|--|------------------------------|-----------------|
| 1. Protect historical sites from vandalism.  | Municipalities, Citizens, Historical Societies, DCNR | Private Sources, Foundations | Medium          |
| 2. Increase awareness of the watershed's historical Native American culture and lumbering heritage.  | Historical Societies, Ancestors, Schools             | Private Sources, Foundations | Medium          |
| 3. Establish driving, walking, and/or biking tours that highlight local history.   | Municipalities, Citizens, Historical Societies, DCNR | Private Sources, Foundations | Medium          |
| 4. Preserve historical sites and landmarks, and educate about historical significance through interpretive signage.  | Municipalities, Citizens, Historical Societies, PHMC | Private Sources, Foundations | Medium          |
| 5. Incorporate local history into classes taught at local school districts to foster an appreciation and understanding of cultural and historical legacies.                          | Schools, Historical Societies, Citizens              | Private Sources, Foundations | Medium          |
| 6. Inventory historical sites throughout the watershed.  | Municipalities, Citizens, Historical Societies       | Private Sources, Foundations | Medium          |
| 7. Work with Pennsylvania Historical and Museum Commission, individuals, and agencies to determine if local historical sites and structures would qualify for the National Register. | Municipalities, Citizens, Historical Societies, PHMC | Private Sources, Foundations | Medium          |

**Goal 5-3: Promote and manage tourism.**

| <u>Method to Achieve Goal:</u>  | <u>Potential Partners</u>   | <u>Potential Funding</u>                | <u>Priority</u> |
|---|---|---|-----------------|
| 1. Support local tourism promotion agencies' efforts to highlight recreational opportunities, as well as cultural tourism and local businesses.   | Conservation Groups, Sportsmen, DCNR, TPA                                   | TPA, DCNR, Private Sources, Foundations | Medium          |
| 2. Conduct an economic impact study of recreational activities to determine revenue from tourism.   | Conservation Groups, Sportsmen, Businesses, DCNR, TPA                       | DCNR, Private Sources, Foundations      | Medium          |
| 3. Support the efforts of PA Wilds Planning Team and Cameron County Chamber of Commerce in their efforts to establish a co-op with the artisan network connection to natural resources. | Artisans, Citizens, PA Wilds Planning Team, PA Wilds Artisan Workgroup, TPA | Private Sources, Foundations            | Medium          |

**Goal 5-4: Link recreational facilities.**

| <u>Method to achieve goal:</u>   | <u>Potential Partners</u>   | <u>Potential Funding</u>                    | <u>Priority</u> |
|--|---|---|-----------------|
| 1. Develop highway bike/hike trails, connecting communities by enhanced existing roadways.                         | Conservation Groups, Park and Recreation Authorities, Counties, Municipalities, PennDOT | DCNR, PennDOT, Private Sources, Foundations | Medium          |
| 2. Explore the possibility of connecting railroad corridors and trails from surrounding areas to existing trails.  | Municipalities, Conservation Groups, Park and Recreation Authorities, Counties          | DCNR, Private Sources, Foundations          | Medium          |
| 3. Establish a network of multi-use trails by connecting existing and new recreational trails.                     | Municipalities, Conservation Groups, Park and Recreation Authorities, Counties          | DCNR, DCED, Private Sources, Foundations    | Medium          |
| 4. Establish greenway corridors and trails in the watershed to connect activity hubs and greenways for public use. | Conservation Groups, Conservation Districts, Planning Commissions                       | DCNR, Private Sources, Foundations          | Low             |

**Goal 5-5: Establish a balanced tourism industry, supplying adequate infrastructure to cover demand without changing the character of the region.**

| <u>Method to Achieve Goal:</u>  | <u>Potential Partners</u>  | <u>Potential Funding</u>                | <u>Priority</u> |
|---|--|---|-----------------|
| 1. Establish a visitor's guide, informing potential visitors about what resources are available and where they are located, including gas stations, public restrooms, restaurants, hospitals, fire stations, police stations, and pay phones. | Counties, Chambers of Commerce, Planning Departments, Municipalities, DCNR, TPA, PennDOT | DCNR, TPA, Private Sources, Foundations | Medium          |
| 2. Establish small, locally-owned businesses, as opposed to chain franchises, to address the needs of residents and visitors to the region.   | Citizens, Chambers of Commerce, Planning Departments, Municipalities                     | Private Sources, Foundations            | Medium          |

**Goal 5-5: Establish a balanced tourism industry, supplying adequate infrastructure to cover demand without changing the character of the region (continued).**

| <u>Method to Achieve Goal:</u>  | <u>Potential Partners</u>  | <u>Potential Funding</u>           | <u>Priority</u> |
|---|--|------------------------------------|-----------------|
| 3. Enhance visitor resources, such as restaurants, gas stations, motels, and public restrooms and their availability. | Citizens, Chambers of Commerce, Planning Departments, Municipalities, DCNR | DCNR, Private Sources, Foundations | Medium          |
| 4. Establish an environmental education center at Sinnemahoning State Park.   | Conservation Groups, DCNR  | DCNR, Private Sources, Foundations | Low             |

**Goal 5-6: Enhance recreational opportunities for sportsmen and outdoor enthusiasts.**

| <u>Method to Achieve Goal:</u>  | <u>Potential Partners</u>   | <u>Potential Funding</u>                 | <u>Priority</u>           |
|---|---|--|---------------------------|
| 1. Establish a water trail by identifying and establishing public access points for canoeing and kayaking, along Bennett Branch, First Fork, Driftwood Branch, and Sinnemahoning Creek mainstem that includes maps and signage. | Conservation Groups, Citizens, Businesses, Municipalities, PFBC, DCNR, TPA  | PFBC, DCNR, Private Sources, Foundations | Medium                    |
| 2. Encourage private landowners to participate in programs, opening their land to public hunting or to allow hunting by written permission on their property.   | Conservation Groups, Sportsmen, Landowners, PGC   | PGC, Private Sources, Foundations        | Medium                    |
| 3. Work with private landowners to provide access to waterways for anglers and small, non-powered watercraft.   | Conservation Groups, Landowners, PFBC, DCNR   | PFBC, DCNR, Private Sources, Foundations | Medium                    |
| 4. Establish a public waterway access plan by working with elected officials, municipalities, sportsmen, conservation groups, state agencies, landowners, and railroad officials.   | Municipalities, Conservation Groups, Elected Officials, Sportsmen, Planning Departments, Railroad Officials, PFBC, PGC, DCNR, PennDOT | PFBC, Private Sources, Foundations       | Medium                    |
| 5. Expand educational programs and recreational opportunities at Sinnemahoning, Sizerville, Parker Dam, and Hemlock Springs to provide services year-round.   | Conservation Groups, Environmental Education Facilities, DCNR   | DCNR, Private Sources, Foundations       | Low                       |
| 6. Enhance camping experiences through facility and program updates, encouraging more visitors to experience the natural environment.   | Conservation Groups, Businesses, DCNR   | PFBC, DCNR, Private Sources, Foundations | Low                       |
| 7. Establish a Pennsylvania Wilds Explorer recognition award after completing a set of criteria, such as Susquehannock Trail Club's Circuit Hiker Award or Allegheny Geocoin.   | Conservation Groups, PA Wilds Planning Team, DCNR, TPA  | TPA, DCNR, Private Sources, Foundations  | Added Post Prioritization |

**Goal 5-7: Improve recreational facilities, and ensure availability and access.**

| <u>Method to Achieve Goal:</u>   | <u>Potential Partners</u>                                       | <u>Potential Funding</u>                 | <u>Priority</u> |
|--|---|--|-----------------|
| 1. Encourage and educate visitors to utilize recreational resources available to the public and respect private property owner rights.                                   | Conservation Groups, Municipalities, Sportsmen, Landowners      | DCNR, Private Sources, Foundations       | Medium          |
| 2. Provide and enhance amenities, such as bathrooms and parking lots, at recreational facilities, including trail heads and municipal parks.                             | Community Groups, Municipalities, PFBC, DCNR                    | DCNR, PFBC, Private Sources, Foundations | Medium          |
| 3. Utilize Sinnemahoning Creek, First Fork, Driftwood Branch, and Bennett Branch resources for recreational opportunities.   | Conservation Groups, Businesses                                 | DCNR, Private Sources, Foundations       | Medium          |
| 4. Maintain existing public lands for recreational purposes and closely monitor the impacts of the local communities before adding additional public lands to the state. | Conservation Groups, Citizens, DCNR, PGC, PFBC                  | Private Sources                          | Low             |
| 5. Redevelop recreational facilities for multiple uses, providing a variety of activities and amenities.   | Municipalities, Park and Recreation Authorities, Citizens, DCNR | DCNR, Private Sources, Foundations       | Low             |
| 6. Update equipment and safety features at existing community and state parks.   | Municipalities, Park and Recreation Authorities, Citizens, DCNR | DCNR, Private Sources, Foundations       | Low             |

**Goal 5-8: Enhance and expand trails.**

| <u>Method to Achieve Goal:</u>  | <u>Potential Partners</u>   | <u>Potential Funding</u>                 | <u>Priority</u> |
|---|---|--|-----------------|
| 1. Conduct a feasibility study, investigating the preservation of railroad corridors for uses, such as rails-to-trails, that preserve these corridors and offer recreational opportunities. | Conservation Groups, Historical Societies, Municipalities, Civic Groups, Landowners, Trail Groups | DCNR, Private Sources, Foundations       | Medium          |
| 2. Establish a rail tour highlighting scenery and history of the railroad.  | Historical Societies, Conservation Groups, Railroad Companies                                     | DCNR, Private Sources, Foundations       | Medium          |
| 3. Increase maintenance to provide trail corridors free of debris and hazards for a safer recreational opportunity.   | Trail Groups, Civic Groups, Conservation Groups, DCNR   | DCNR, Private Sources, Foundations       | Low             |
| 4. Establish well-defined trailheads, including amenities, such as parking lots and restrooms.  | Trail Groups, Civic Groups, Conservation Groups, DCNR   | DCNR, DCED, Private Sources, Foundations | Low             |
| 5. Develop or designate certain areas of trails for specific uses, such as off-road vehicle riding, snowmobiling, hiking, biking, and horseback riding.                                     | Conservation Groups, Trail Groups, Civic Groups, Riding Clubs, DCNR, PGC                          | DCNR, Private Sources, Foundations       | Low             |

**Goal 5-9: Expand awareness, appreciation, and support for the arts.**

| <u>Method to achieve goal:</u>  | <u>Potential Partners</u>  | <u>Potential Funding</u>     | <u>Priority</u> |
|---|--|------------------------------|-----------------|
| 1. Increase awareness for the visual and performing arts, especially as it relates to nature art. | Businesses, Schools, Universities, Cultural Council, Local Artists | Private Sources, Foundations | Low             |
| 2. Broaden quantity and quality of the volunteer pool to support the arts.                        | Citizens, Schools, Universities                                    | Private Sources, Foundations | Low             |

**Education and Funding****Goal 6-1: Educate recreation users about proper and safe practices.**

| <u>Method to achieve goal:</u>  | <u>Potential Partners</u>                                    | <u>Potential Funding</u>                | <u>Priority</u> |
|---|--|---|-----------------|
| 1. Educate off-road vehicle operators to recreate in an environmentally sound manner.               | Conservation Groups, Recreational Vehicle Riding Clubs, DCNR | DCNR, Private Sources, Foundations      | High            |
| 2. Educate hunters, fishermen, and other outdoor enthusiast on the importance of land etiquette.    | Conservation Groups, Sportsmen Groups, PFBC, PGC, DCNR       | PFBC, PGC, Private Sources, Foundations | Medium          |
| 3. Educate sportsmen about areas open to public usage, providing detailed maps of public-use areas. | Conservation Groups, Sportsmen Groups, PFBC, PGC, DCNR       | PFBC, PGC, Private Sources, Foundations | Medium          |

**Goal 6-2: Increase awareness about the benefits of riparian corridors.**

| <u>Method to achieve goal:</u>  | <u>Potential Partners</u>                            | <u>Potential Funding</u>                                       | <u>Priority</u> |
|---|--|--|-----------------|
| 1. Educate landowners about the value of riparian buffers.  | Conservation Groups, DEP, NRCS, PFBC, PGC, USDA, EPA | EPA, DCNR, NRCS, PFBC, PGC, USDA, Private Sources, Foundations | High            |
| 2. Conduct outreach, education, and implementation programs on cost share and easements for streamside corridor conservation.   | Conservation Groups, DEP, NRCS, PFBC, PGC, USDA, EPA | EPA, DCNR, NRCS, PFBC, PGC, USDA, Private Sources, Foundations | High            |
| 3. Promote the preservation and enhancement of vegetated streamside buffers through education about their benefits for wildlife, water quality, and flood prevention. | Conservation Groups, DEP, NRCS, PFBC, PGC, USDA, EPA | EPA, DCNR, NRCS, PFBC, PGC, USDA, Private Sources, Foundations | High            |
| 4. Educate watershed stakeholders about the importance of riparian corridors, and encourage establishment of riparian buffers.  | Conservation Groups, DEP, NRCS, PFBC, PGC, USDA, EPA | EPA, DCNR, NRCS, PFBC, PGC, USDA, Private Sources, Foundations | Medium          |

**Goal 6-3: Increase awareness about water quality, quantity, and conservation practices.**

| <u>Method to achieve goal:</u>  | <u>Potential Partners</u>                         | <u>Potential Funding</u>          | <u>Priority</u> |
|---|---|-----------------------------------|-----------------|
| 1. Educate citizens on the importance of water quantity and the benefits of water conservation. | Conservation Districts, Conservation Groups, DCNR | DEP, Private Sources, Foundations | High            |

**Goal 6-3: Increase awareness about water quality, quantity, and conservation practices (continued).**

| <u>Method to achieve goal:</u>  | <u>Potential Partners</u>  | <u>Potential Funding</u>                     | <u>Priority</u> |
|---|--|--|-----------------|
| 2. Develop and implement educational outreach programs for private well owners, specifically concerning sole source aquifer protection programs and protecting ground water supplies. | Conservation Groups, Conservation Districts, Landowners, DEP, RWA, DCNR            | DEP, Private Sources, Foundations            | High            |
| 3. Educate homeowners about the effects of the overuse of fertilizers, pesticides, and herbicides on groundwater.   | Conservation Groups, Conservation Districts, Landowners, DCNR                      | DEP, Private Sources, Foundations            | High            |
| 4. Promote groundwater quality awareness when conducting education and outreach programs, and provide information about potential threats to water supplies.                          | Conservation Groups, Municipalities, Water Suppliers, Conservation Districts, DCNR | DEP, DCED, EPA, Private Sources, Foundations | Medium          |
| 5. Educate community residents and water suppliers about potential threats to the public water supply.  | Conservation Groups, Conservation Districts, Citizens, Water Suppliers, DCNR       | DEP, Private Sources, Foundations            | Medium          |
| 6. Educate homeowners about the significance of water-use designations and ways to minimize non-point source pollution.   | Conservation Groups, Conservation Districts, Citizens                              | DEP, Private Sources, Foundations            | Medium          |

**Goal 6-4: Educate stakeholders about the value and importance of wetlands.**

| <u>Method to achieve goal:</u>  | <u>Potential Partners</u>  | <u>Potential Funding</u>                           | <u>Priority</u> |
|---|--|--|-----------------|
| 1. Develop or expand outreach programs on the function and value of wetlands.   | Conservation Groups, DEP, EPA                                    | DEP, EPA, Private Sources, Foundations             | Medium          |
| 2. Educate municipal, county, state, and federal officials about planning and implementation of wetland mitigation and the establishment of replacement wetlands. | Conservation Groups, Municipalities, DEP, EPA                    | DEP, EPA, Private Sources, Foundations             | Medium          |
| 3. Partner with local conservation districts to educate stakeholders about ways to reduce erosion and sedimentation through wetland development.                  | Conservation Groups, Conservation Districts, Citizens, DEP, NRCS | DEP, EPA, NRCS, Private Sources, Foundations       | Medium          |
| 4. Develop an education program addressing flood issues, flood prevention, flood recovery, and floodplain protection.   | Conservation Groups, Municipalities, PEMA                        | DEP, EPA, PEMA, FEMA, Private Sources, Foundations | Medium          |

**Goal 6-5: Increase awareness of services available to assist agricultural and forest landowners in managing their lands effectively.**

| <u>Method to achieve goal:</u>  | <u>Potential Partners</u>                              | <u>Potential Funding</u>           | <u>Priority</u> |
|---|--|------------------------------------|-----------------|
| 1. Educate loggers, landowners, and municipal officials about forestry best management practices, sustainable forestry management, and sustainable forestry certification through workshops and other programs. | Conservation Groups, Landowners, Foresters, DCNR, USFS | DCNR, Private Sources, Foundations | Medium          |

**Goal 6-5: Increase awareness of services available to assist agricultural and forest landowners in managing their lands effectively (continued).**

| <i>Method to achieve goal:</i>   | <i>Potential Partners</i>  | <i>Potential Funding</i>           | <i>Priority</i> |
|--|--|------------------------------------|-----------------|
| 2. Educate agricultural landowners, through workshops and other programs, to manage lands in a sustainable and financially efficient way, by utilizing best management practices and new technology. | Conservation Groups, Conservation Districts, Landowners, NRCS, PDA, USDA | DEP, Private Sources, Foundations  | Medium          |
| 3. Educate forestland owners, by providing them with accurate information regarding sound silviculture practices, forest management plan development, and insect and disease management.             | Conservation Groups, Landowners, Foresters, DCNR                         | DCNR, Private Sources, Foundations | Medium          |

**Goal 6-6: Educate stakeholders how land-use planning can be effective.**

| <i>Method to achieve goal:</i>  | <i>Potential Partners</i>   | <i>Potential Funding</i>                       | <i>Priority</i> |
|---|---|--|-----------------|
| 1. Provide public education and awareness programs about the economic benefits and importance of watershed protection.  | Citizens, Conservation Groups, Conservation Districts                       | DEP, DCNR, Private Sources, Foundations        | High            |
| 2. Encourage and provide education sessions for municipal officials on integrated land-use planning, habitat conservation, and biodiversity.  | Municipalities, Conservation Groups, DCED, PSAT, PSAB                       | DCED, PSAT, PSAB, Private Sources, Foundations | High            |
| 3. Host workshops to educate and encourage municipal officials to create, review, update, and enforce ordinances that support watershed-wide planning; provide sample ordinances to municipalities.                 | Municipalities, DCED, PSAT, PSAB  | DCED, PSAT, PSAB, Private Sources, Foundations | Medium          |
| 4. Conduct workshops, seminars, and demonstrations for decision-makers, from developers to government leaders, emphasizing best management practices.   | Municipalities, Developers, Conservation Groups, DEP, DCNR                  | DEP, DCNR, Private Sources, Foundations        | Medium          |
| 5. Increase municipal awareness of the values of preserving, protecting, and restoring the natural resources within the watershed, and promote inter-municipal cooperation.   | Municipalities, Conservation Groups, Conservation Districts                 | DCED, DCNR, DEP, Private Sources, Foundations  | Medium          |
| 6. Provide required workshops and/or training sessions on sustainable maintenance practices.  | Municipalities, Conservation Groups, DCED, PSAT, PSAB                       | DCED, PSAT, PSAB, Private Sources, Foundations | Medium          |
| 7. Educate residents and developers about environmentally friendly development practices, such as Smart Growth or Conservation by Design.   | Municipalities, Developers, Citizens, Conservation Groups, DEP, DCNR        | DEP, Private Sources, Foundations              | Medium          |
| 8. Provide educational programs for municipal and county officials about land-use planning and other tools that incorporate conservation goals into making communities more attractive and protecting biodiversity. | Conservation Groups, Conservation Districts, Municipal and County Officials | DEP, Private Sources, Foundations              | Medium          |

**Goal 6-6: Educate stakeholders how land-use planning can be effective (continued).**

| <u>Method to achieve goal:</u>  | <u>Potential Partners</u>                                     | <u>Potential Funding</u>                       | <u>Priority</u> |
|---|---|--|-----------------|
| 9. Educate taxpayers about the connection between taxes and available services and how their tax dollars are being spent. | Citizens, Elected Officials, Municipalities, DCED, PSAT, PSAB | DCED, PSAT, PSAB, Private Sources, Foundations | Medium          |

**Goal 6-7: Increase awareness of the importance of biodiversity and protecting wildlife habitats.**

| <u>Method to achieve goal:</u>   | <u>Potential Partners</u>                                | <u>Potential Funding</u>           | <u>Priority</u> |
|--|--|------------------------------------|-----------------|
| 1. Educate citizens about biological diversity and the vital importance of conserving habitats and protecting species.                 | Conservation Groups, PGC, DCNR, USFWS                    | DCNR, Private Sources, Foundations | Medium          |
| 2. Provide educational field trips to elected officials, emphasizing natural resources and the value of those resources to the region. | Conservation Groups, Elected Officials, PGC, DCNR, USFWS | DCNR, Private Sources, Foundations | Medium          |

**Goal 6-8: Increase funding to address issues important to Sinnemahoning Creek watershed communities.****Project Area**

| <u>Method to achieve goal:</u>   | <u>Potential Partners</u>   | <u>Potential Funding</u>                                     | <u>Priority</u> |
|--|---|--|-----------------|
| 1. Increase lobbying and funding support for watershed projects and the environment in federal and state budgets.                    | Conservation Groups, Legislators, DEP, DCNR   | DEP, DCNR, Conservation Groups, Legislature, Private Sources | High            |
| 2. Increase funding available to provide sustainable maintenance practices on roadways, including the dirt and gravel roads program. | Municipalities, Penn State Dirt & Gravel Road Program, Conservation Groups, PennDOT | DEP, PennDOT, Private Sources                                | High            |
| 3. Increasing funding available to support the administrative needs of watershed organizations.                                      | Conservation Groups, DEP, DCNR  | Private Sources, Foundations                                 | Medium          |
| 4. Increase funding for libraries, so services can be expanded, and establish bookmobile routes to rural areas.                      | Municipalities, Citizens  | Private Sources, Foundations                                 | Medium          |
| 5. Identify additional funding to install dry hydrants.  | Municipalities, Fire Departments, DEP, EPA  | DCED, DEP, EPA, Private Sources, Foundations                 | Medium          |

**Land Resources**

| <u>Method to achieve goal:</u>   | <u>Potential Partners</u>            | <u>Potential Funding</u>                                | <u>Priority</u> |
|--|--------------------------------------|---|-----------------|
| 1. Identify additional local, state, and federal funding for the implementation of agricultural best management practices. | Conservation Groups, NRCS, USDA, PDA | DEP, NRCS, USDA, PDA, EPA, Private Sources, Foundations | Medium          |

**Goal 6-8: Increase funding to address issues important to Sinnemahoning Creek watershed communities (continued).****Land Resources**

| <u>Method to achieve goal:</u>   | <u>Potential Partners</u>                                       | <u>Potential Funding</u>                                | <u>Priority</u> |
|--|---|---|-----------------|
| 2. Identify and secure funding to adequately support efforts to identify and remove illegal dumpsites, address waste disposal needs, and assist curbside recycling programs. | Conservation Groups, PA CleanWays, Municipalities, Civic Groups | DEP, Private Sources, Foundations                       | Medium          |
| 3. Increase funding to assist groups in hosting cleanup events, educating residents about illegal dumping and expanding recycling programs.                                  | Conservation Groups, PA CleanWays, Municipalities, Civic Groups | DEP, Private Sources, Foundations                       | Medium          |
| 4. Increase funding to establish conservation easements and secure their continual existence as a conservation tool.   | Conservation Groups, DEP, DCNR                                  | DEP, Private Sources, Foundations                       | Medium          |
| 5. Increase financial and technical assistance to small-scale agriculture operations to increase economic viability and environmental responsibility.                        | Conservation Groups, NRCS, USDA, PDA                            | DEP, NRCS, USDA, PDA, EPA, Private Sources, Foundations | Medium          |

**Water Resources**

| <u>Method to achieve goal:</u>   | <u>Potential Partners</u>   | <u>Potential Funding</u>                                    | <u>Priority</u> |
|--|---|---|-----------------|
| 1. Identify additional funding for stream restoration projects, including riparian buffer establishment, streambank stabilization, and invasive species removal. | Conservation Groups, DEP, EPA, NRCS, USDA, PGC, PFBC                                | DEP, EPA, Cost-share Programs, Private Sources, Foundations | Medium          |
| 2. Lobby for increased state and federal funding for the implementation of adequate sewage treatment facilities and septic upgrade programs.                     | Sewage Authorities, Landowners, Municipalities, Conservation Groups, DEP, EPA, DCED | DCED, DEP, EPA, Private Sources, Foundations                | Medium          |
| 3. Increase local and state funding to continue watershed monitoring efforts.  | Conservation Groups, DEP, EPA, PFBC   | DEP, EPA, Private Sources, Foundations                      | Medium          |
| 4. Establish and/or continue cost-share programs and grants to assist homeowners in septic repair, maintenance, and replacement.                                 | Municipalities, Sewage Authorities, DCED, DEP                                       | DCED, DEP, EPA, Private Sources, Foundations                | Medium          |

**Biological Resources**

| <u>Method to achieve goal:</u>   | <u>Potential Partners</u>                   | <u>Potential Funding</u>                 | <u>Priority</u> |
|--|---|--|-----------------|
| 1. Develop incentives to encourage the forestry industry to utilize best management practices. | Landowners, Conservation Groups, USFS, DCNR | USFS, DCNR, Private Sources, Foundations | Medium          |
| 2. Increase funding to implement invasive species control strategies.                          | Conservation Groups, USFS, DCNR             | USFS, DCNR, Private Sources, Foundations | Medium          |

**Goal 6-8: Increase funding to address issues important to Sinnemahoning Creek watershed communities (continued).****Cultural Resources**

| <i>Method to achieve goal:</i>   | <i>Potential Partners</i>                            | <i>Potential Funding</i>               | <i>Priority</i> |
|--|--|--|-----------------|
| 1. Identify additional unrestricted funding for development and projects of Bennett Branch, Bucktail, and First Fork watershed associations.                                       | Conservation Groups, Conservation Districts          | Private Sources, Foundations           | Medium          |
| 2. Secure local, state, federal, and private funding to provide environmental education programs for elected officials, watershed residents, businesses, and school-aged children. | Conservation Groups, School Districts, Citizens      | DEP, EPA, Private Sources, Foundations | Medium          |
| 3. Determine needs and find ways to support local environmental educators.   | Conservation Groups, Conservation Districts, Schools | DEP, EPA, Private Sources, Foundations | Medium          |
| 4. Advocate increased funding for environmental education.   | Conservation Groups, Schools                         | DEP, EPA, Private Sources, Foundations | Medium          |

**Goal 6-9: Increase funding to maintain and enhance existing recreational facilities and opportunities.**

| <i>Method to achieve goal:</i>   | <i>Potential Partners</i>                               | <i>Potential Funding</i>           | <i>Priority</i> |
|--|---|------------------------------------|-----------------|
| 1. Increase funding for maintaining multi-use recreation.                    | Municipalities, Counties, Park & Recreation Authorities | DCNR, Private Sources, Foundations | Medium          |
| 2. Increase funding for establishing and maintaining trails and trail heads. | Municipalities, Counties, Park & Recreation Authorities | DCNR, Private Sources, Foundations | Medium          |
| 3. Increase funding to establish and maintain waterway access points.        | Municipalities, Counties, Park & Recreation Authorities | DCNR, Private Sources, Foundations | Medium          |

**Goal 6-10: Increase awareness of water quality issues affecting communities.**

| <i>Method to achieve goal:</i>   | <i>Potential Partners</i>  | <i>Potential Funding</i>                | <i>Priority</i> |
|--|--|---|-----------------|
| 1. Educate municipal and county officials about planning for stormwater best management practice implementation.                     | Conservation Groups, Municipalities, Counties, DEP                         | DEP, Private Sources, Foundations       | Medium          |
| 2. Encourage school districts to work with conservation groups and agencies to educate students about watersheds.                    | Conservation Groups, Conservation Districts, School Districts, DCNR        | Private Sources, Foundations            | Medium          |
| 3. Educate homeowners about alternative sewage treatment systems, proper testing, and maintenance of existing on-lot sewage systems. | Municipalities, Conservation Groups, Municipal Authorities, SEO, DEP, DCED | DEP, DCED, Private Sources, Foundations | Medium          |
| 4. Conduct outreach campaigns to educate watershed residents about land uses in their communities.                                   | Conservation Groups, Conservation Districts, Cooperative Extensions        | DEP, Private Sources, Foundations       | Medium          |

**Goal 6-10: Increase awareness of water quality issues affecting communities (continued).**

| <u>Method to achieve goal:</u>   | <u>Potential Partners</u>                                     | <u>Potential Funding</u>          | <u>Priority</u> |
|--|---|-----------------------------------|-----------------|
| 5. Expand the environmental education roles of Bennett Branch, Bucktail, and First Fork watershed associations.  | Conservation Groups, Conservation Districts, School Districts | Private Sources, Foundations      | Medium          |
| 6. Utilize media, such as newspapers, radio stations, and television stations, to recruit increased public participation in projects and promote educational messages. | Conservation Groups, Conservation Districts, Media            | DEP, Private Sources, Foundations | Medium          |
| 7. Promote environmental education campaigns, such as "Everybody Lives Downstream" and storm drain stenciling.   | Conservation Groups, Conservation Districts, DEP              | Private Sources, Foundations      | Medium          |

**Goal 6-11: Increase awareness of impacts from litter, illegal dumps, and abandoned vehicles.**

| <u>Method to achieve goal:</u>  | <u>Potential Partners</u>  | <u>Potential Funding</u>           | <u>Priority</u> |
|---|--|------------------------------------|-----------------|
| 1. Encourage proper disposal of household hazardous waste, by providing recycling workshops and other educational outreach programs.                  | Conservation Groups, PA CleanWays, Municipalities, DEP, DCNR   | DEP, Private Sources, Foundations  | Medium          |
| 2. Educate citizens about traditional and innovative ways to reduce, reuse, and recycle.  | Conservation Groups, PA CleanWays, Citizens, DCNR  | DCNR, Private Sources, Foundations | Medium          |
| 3. Renew public interest in litter control education.   | Conservation Groups, Civic Groups, Citizens, School Districts, Municipalities, PA CleanWays, DEP, DCNR | DEP, Private Sources, Foundations  | Medium          |
| 4. Educate citizens about the impacts illegal dumping has on water quality and the environment, aesthetics, health and human safety, and the economy. | Conservation Groups, PA CleanWays, Municipalities, DEP, DCNR   | DEP, Private Sources, Foundations  | Medium          |
| 5. Educate residents about safety, human health, and environmental impacts caused by unlicensed or abandoned vehicles, and encourage proper disposal. | Conservation Groups, Municipalities, PA CleanWays  | Private Sources, Foundations       | Medium          |
| 6. Educate the public to utilize practices, such as "leave no trace."   | Conservation Groups, PA CleanWays, Citizens, DCNR  | DCNR, Private Sources, Foundations | Medium          |
| 7. Develop public service announcements about proper waste disposal .   | Conservation Groups, PA CleanWays, Municipalities, Media, DEP, DCNR                                    | DEP, Private Sources, Foundations  | Medium          |

**Goal 6-12: Establish ongoing environmental education programs and utilize existing facilities.**

| <u>Method to achieve goal:</u>   | <u>Potential Partners</u>   | <u>Potential Funding</u>               | <u>Priority</u> |
|--|---|--|-----------------|
| 1. Develop and implement locally-based environmental/social educational programs that focus on Sinnemahoning Creek watershed.  | Conservation Groups, Conservation Districts, Cooperative Extensions, DCNR | DEP, Private Sources, Foundations      | Medium          |
| 2. Develop and implement education programs for schools about abandoned mine drainage and other sources of non-point source pollution.   | Conservation Groups, Conservation Districts, WPCAMR, DEP, OSM, EPA        | DEP, EPA, Private Sources, Foundations | Medium          |
| 3. Develop and implement education workshops and/or outreach programs about point source pollution, how to report point source violations, and how to research permit information. | Conservation Groups, Sportsmen's Groups, Citizens, DEP, EPA               | EPA, DEP, Private Sources, Foundations | Medium          |
| 4. Increase awareness of watershed-related issues through the distribution of materials and educational programs.  | Conservation Groups, Conservation Districts, Cooperative Extensions       | DEP, Private Sources, Foundations      | Medium          |
| 5. Host stream monitoring workshops or trainings for adult and student volunteers.   | Conservation Groups, Stakeholders, DEP, DCNR                              | DEP, Private Sources, Foundations      | Medium          |

**Goal 6-13: Educate stakeholders about impacts associated with poor air quality.**

| <u>Method to achieve goal:</u>  | <u>Potential Partners</u>     | <u>Potential Funding</u>               | <u>Priority</u> |
|---|-------------------------------|--|-----------------|
| 1. Educate residents about the impacts that acid precipitation and mercury have on the environment. | Conservation Groups, EPA, DEP | DEP, EPA, Private Sources, Foundations | Medium          |

**Goal 6-14: Educate stakeholders about the importance of wildlife and natural resources.**

| <u>Method to achieve goal:</u>   | <u>Potential Partners</u>                           | <u>Potential Funding</u>           | <u>Priority</u> |
|--|---|------------------------------------|-----------------|
| 1. Sponsor outreach programs to educate landowners about wildlife management practices.  | Sportsmen Groups, PGC                               | PGC, Private Sources, Foundations  | Medium          |
| 2. Educate the public about the use and purpose of Natural Heritage Inventories in planning, with an additional focus on the importance of existing natural resources. | Municipalities, Conservation Groups, Counties, PNHP | DCNR, Private Sources, Foundations | Medium          |