

### Appendix 6 - Involving Local and County Government, and Regional Planning Entities

Recommendations	Priority	Funding Opportunities	Coordinating Entity/Partners	Management Implementation
Mitigate development pressures	1	DCED, CCPC	BSWA; Twps.; CCPC	Urgency, as needed.
Consider creation of regional Environmental Advisory Council	1	DCNR, DEP, PEC	BSWA; Conodoguinet & Middle Spring WAs; municipalities; CCPC, CCCD	Meet with municipalities to discuss formation of regional EAC.
Consider expanding land use regulations, in particular those addressing environmentally sensitive areas.	2	DCED, DCNR	Twps; CCPC; Center for Land Use , Shippensburg Univ. (CLUSU)	Discuss and work with municipalities; provide examples.
Coordinate with Cumberland County and Tri-County Regional Planning Commissions	1	DCED, Local	Existing Partners	Part of Comprehensive Plan process.
Continue regional planning and planning implementation efforts within watershed	1.5	DCED, Local	Existing Partners and Cumberland County	Same as above.
Develop driveway/private road construction standards to minimize surface runoff	2	DCED, Local	Municipalities	Discuss and work with municipalities; provide examples.
Consider the establishment of a regional water supply	2.5	Water Authority	County & municipalities; (CLUSU)	Possible well in colluviums of S. Mtn. (S. Newton), following SU approach.
Work with municipalities within watershed to establish a review process for larger scale developments of regional impact	2	DCED, CCPC	BSWA; Municipalities; CCPC	Discuss and work with CCPC and municipalities; provide examples.

<b>Nutrient Management – Regulatory</b>				
<b>Recommendations</b>	<b>Priority</b>	<b>Funding Opportunities</b>	<b>Coordinating Entity/Partners</b>	<b>Management Implementation</b>
Agricultural Runoff	1	DEP, PDA, NRCS	CCCD; BSWA; NRCS	Zimmerman hot spot; upstream along Big Spring Road.

<b>Nutrient Management – Non-Regulatory</b>				
<b>Recommendations</b>	<b>Priority</b>	<b>Funding Opportunities</b>	<b>Coordinating Entity/Partners</b>	<b>Management Implementation</b>
Establish stream buffering/fencing on farms and non-farm lands	2	DEP, CCCD, NRCS, REAP Program	BSWA; USFWS; CCCD	Manage riparian buffers for tall, herbaceous vegetation.
Remove deer carcasses in streams	3	DEP, PA Cleanways (PACW)	BSWA; PACW	

<b>Infrastructure Improvements</b>				
<b>Recommendations</b>	<b>Priority</b>	<b>Funding Opportunities</b>	<b>Coordinating Entity/Partners</b>	<b>Management Implementation</b>
Minimize surface runoff and siltation when completing bridge improvements	2		BSWA; Municipalities	Potential projects include 1) bridge near medical center and PA 233 (created silt dam); 2) Nealy Bridge Dam (funded awarded); 3) Link between I-81 and I-76 through watershed.
Restrict and enforce weight limit on Big Spring Road	2		Municipalities; PennDOT	Request municipalities to adopt and enforce weight limits on Big Spring Road.
Restrict use of springs as water source due to water contamination and siltation issues	2		BSWA; SRBC; SU	Monitor spring water quantity, quality, and determine source areas with hydrological studies.
Preserve Humpback Bridge	2.5	PHMC	Newville Historical Society; PHMC	Maintain as needed. Reapply for National Register for Historic Places listing.
Maintain and improve existing dams, including but not limited to, Reservoir Hill and, Laughlin Mill**  **Dam restoration not a healthy alternative to restore stream	1.5		Municipalities; Cumberland Co. Landfill (silt removal to cap)	Establish monitoring program and periodic siltation removal. Modify dam to flow of sediment.
Reduce direct deposit of surface pollutants into limestone aquifers via sinkholes	1	EPA, USDA, Chesapeake Bay Programs	SU; USGS; CCCD	Locate and buffer major sinkholes with innovative BMPs.
Remove dead timber throughout	3			

### Infrastructure Improvements, Con't.

Recommendations	Priority	Funding Opportunities	Coordinating Entity/Partners	Management Implementation
Explore options to mitigate sinkholes	1	EPA, USDA, Chesapeake Bay Programs	SU; USGS; CCCD	
Mitigate stormwater surface runoff	1	PAFBC, Pennsy Supply	PAFBC; Municipalities; PennDOT	Potential projects include 1) modify/remove hatchery concrete; 2) correct stormwater drainage into existing sinkholes/underground streams; 3) minimize road salt contamination.
Mitigate potential damage to conduits as quarry operations deepen	1	Pennsy Supply, DEP	BSWA; SU; DEP (mining and water quality)	Potential projects include 1) trace flow path of water runoff from Pennsy Supply quarry and other known failed detention basins; 2) mitigate failed sinks with BMPs.
Increase buffer and water recharge areas	2	Alliance for the Chesapeake Bay; CCCD	CCCD; Municipalities; Alliance for the Chesapeake Bay	Reduce impervious surface in existing structures (hatchery) and any new developments in contributing areas.
Limit water use during drought conditions	2		Water Authority/Co; DEP; municipalities	Institute water restrictions notices as needed.
Upgrade public sewage treatment discharges as per DEP regulations	1.5	DEP, PennVest, municipalities; developers	Newville Sewer Authority; PADEP; municipalities	Require payment for necessary upgrades upfront for developments wishing to hook-up.
Continue monitoring Newville Dam, Green Ridge Village and Trailer Park	2			

### Infrastructure Improvements, Con't.

Recommendations	Priority	Funding Opportunities	Coordinating Entity/Partners	Management Implementation
Protect primary and secondary regional water sources, i.e. Cool Spring (Newville water supply)	1	DEP	Newville; SU; USGS; SRBC	Potential projects include 1) delineate contributing areas for Big Spring and Cool Spring with hydrological traces; 2) implement BMPs on contributing area with obvious nutrient/contaminant contribution; 3) require thorough hydrologic study of development sites, including hydrological traces.
Reclassify Spring designation to high quality water segment	1	DEP; PFBC	PFBC; DEP (water quality)	Change regulations to catch and release segment to Laughlin Mill Pond to allow wild fish population to rebound in lower reaches.
Mitigate siltation/turbidity of Spring	1	DEP	BSWA; SU; PFBC; CCCD	Potential projects include 1) trace water, nutrient and sediment sources that reach spring via hatchery culverts; 2) determine connection between old brick quarry and mitigate runoff into fractures.
Limit use of herbicides/loss of non-weeds (i.e. watercress) near hatchery	1.5		PFBC; CCCD; PSUCE; PennDOT; municipalities	Determine a no spray buffer area along Spring.
Return native plant and aquatic life species	2		Audubon Society; DCNR; BSWA; USFWS; SU; PFBC	

**Protection of Cultural Assets**

<b>Recommendations</b>	<b>Priority</b>	<b>Funding Opportunities</b>	<b>Coordinating Entity/Partners</b>	<b>Management Implementation</b>
Develop a restoration/reuse plan for the old milk plant (300 yards above fish hatchery)	3		Newville Historical Society (NHS); PHMC	
Provide for the preservation of cultural assets while still allowing for development through watershed	2		Municipalities; CCPC, PHMC; NHS	Require integration of cultural assets within development plans.
Request the development of a reuse plan for hatchery buildings, maintaining its historic character	2	PHMC, PFBC	BSWA; PFBC, PHMC; municipalities; NHS	Township should partner with PFBC to develop a reuse plan, potentially a wildlife recreation area, community recreational facility and/or ecotourism attraction.
Develop a restoration and reuse plan for Barrel Factory, potential conversion to museum	1	PHMC, County Hotel Tax	BSWA; PFBC; Barrel factory Support Group; NHS; CCHS; existing partners with BSWA	Potential steps include 1) nominate building for National Register of Historic Places (NRHP); 2) complete critical repairs; 3) define exhibits and all building functions, determine work list; 4)develop timeline for completing building conversion; 5) write funding grant applications.
Preserve historic character of Springfield	2	DCED; PHMC	Municipalities; BSWA; NHS	Develop historic district design guidelines/regulations. Investigate potential for NRHP listing.
Preserve/Maintain Stone Arch Bridge	2	PHMC	NHS; BSWA	

**Protection of Cultural Assets, Con't.**

<b>Recommendations</b>	<b>Priority</b>	<b>Funding Opportunities</b>	<b>Coordinating Entity/Partners</b>	<b>Management Implementation</b>
Protect farms along stream originally platted by Penn Land Company (Identify springhouses by number)	2	County Ag Preserve Board	County Ag Preserve Board; CCPC; municipalities	Encourage placement of conservation easements.
Research Native American settlements	2.5	PHMC	Local archeological degree programs; PHMC; municipalities; NHS	Potential steps include 1) investigate whether any research has been completed; 2) pursue grants and research and approach potential partners.

**Parks and Recreation Improvements**

Recommendations	Priority	Funding Opportunities	Coordinating Entity/Partners	Management Implementation
Develop and maintain fishing access	1.5	DCNR, PFBC	DCNR; PFBC; BSWA; CCPC; municipalities	Potential projects include 1) establish greenways; 2) ensure ADA compliance; 3) improve parking areas with better riparian plantings; 4) develop a park with trees and benches at Nealy Road lot.
Develop Rails to Trails concept (Comments: stones now falling into stream from abandoned railroad culvert; link with existing rail-trail)	1.5	DCNR; local/county	CCPC; DCNR; CCRT; BSWA; municipalities	Potential projects include 1) develop potential nature park near intersection of trail and Spring, adjacent to new development; 2) work with CCRT to develop route linking Big Spring and the existing trail.; 3) publicize trail.
Identify opportunities for the following: a. fishing b. ecotourism c. greenway d. conservation easements e. boating behind Laughlin Dam f. monitoring g. Scenic River designation h. streamside interpretation (i.e. springhouses linked with Discovery Day) i. public access j. park at Laughlin Dam k. birdwatching venues	2	Dependent on opportunity-multiple funding sources	BSWA; PFBC; CVTU; Audubon Society; CCPC; CCCD; PSUCE; Alliance for the Chesapeake bay; ALLARM; NHS	Per opportunity. Potential implementation measures include 1) work with Green Ridge Village retirement Community to develop one or more handicap fishing spots aesthetically and functionally designed for both fly and spin-cast fishing; 2) Support Newville's ecotourism efforts and offer suggestions relating to use of Big Spring Creek; 3) Work with Audubon Society to develop recognition of Big Spring as birding location and feature in their printed materials/mapping; 4) Investigate best practices for streamside interpretation, as well as that for industrial history and fish habitat.



**BSWA Coordination and Management Recommendations**

<b>Recommendations</b>	<b>Priority</b>	<b>Funding Opportunities</b>	<b>Coordinating Entity/Partners</b>	<b>Management Implementation</b>
Establish a comprehensive stream and plan monitoring program	1	DCNR, DEP, DCED	DCNR; DEP; BSWA; SU; PFBC; USGS; ALLARM; CCPC; municipalities	Annually survey invertebrates, water chemistry, and continually survey stream flow. Track plan implementation progress.
Establish quarterly meetings in person or by conference call/email as part of monitoring strategy	2		BSWA; municipalities	See above.
Pursue funding/in-kind support for shared staff	2.5	DCED, local	BSWA; municipalities; CCPC	Explore options for shared staff to assist watershed association and municipalities in carrying out plan implementation.