

Natural Resources

Existing Conditions

Streams and Watersheds

The Severn Small Area lies within portions of three of the twelve major watersheds in Anne Arundel County as seen in Map 8. Those watersheds are (1) the Severn River Watershed, (2) the Patapsco River Watershed, and (3) the Little Patuxent River Watershed. Approximately half of the Small Area drains to the Severn River watershed, and half to the Patapsco River watershed. Only a small portion of the Severn Small Area drains to the Little Patuxent River watershed.

The headwaters of the Severn River are located within the Severn Small Area. The headwater stream is Severn Run. Tributaries to Severn Run that are located within this planning area are Beasley Branch (also called Reece Road Branch), Beaver Creek, Delmont Road Branch, and Broad Branch. Tributaries to the Patapsco River include Sawmill Creek, Stony Run, and Piney Run. There are no named tributaries to the Little Patuxent River. Drainage to this watershed is via overland flow to Midway Branch on the south side of MD 175.

The Severn Run, a tributary of the Severn River, drains the southern and eastern portion of the planning area. The State of Maryland has recognized the portion of Severn Run upstream of MD 3 as a State Designated Use IV stream. Use IV waters are defined as Recreational Trout Waters and include cold or warm waters particularly managed for fishing by periodic stocking and seasonal catching of adult trout. The Severn Run watershed was also the subject of the County's first watershed management master plan in 1980. That plan recommended initiation of a broad-based, multi-agency watershed management program to oversee land use activities in the Severn Run watershed. This recommendation has been addressed through the activities of the Severn River Commission. Issues associated with stormwater management and flooding at specific sites were identified and subsequently ameliorated through the recommendations of this study.

The County's 1997 General Development Plan (GDP) recommends completion of watershed management master plans for the County's 12 major watersheds. The first of these plans to be completed was specific to the South River Watershed. This master plan identified areas currently subject to adverse impacts of stormwater runoff, and areas that would be subject to stormwater runoff impacts under future conditions if full build-out of current zoning were realized. Specific problems addressed included soil erosion and sedimentation, flooding, nutrient and heavy metal transport. Management alternatives to address current and potential impacts were identified and proposed for implementation. A similar plan is being prepared for the Severn River watershed, including the Severn Run and its tributaries. The proposed land use changes that arise out of the Small Area Planning Process will be reflected in this watershed study.

Sawmill Creek, a tributary to the tidal portion of the Patapsco River, drains the northeastern portion of the planning area. This tributary has been the focus of ongoing

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watershed restoration efforts spearheaded by the Maryland Department of Natural Resources (DNR). The Sawmill Creek watershed is one of four Maryland watersheds identified for inclusion in the State's Targeted Watershed Project. The Targeted Watershed Project was created in 1989 to demonstrate that improvements in water quality and habitat conditions could be achieved by coordinating the monitoring, pollution control, and restoration programs of public and private organizations. To date, cooperative efforts between public and private parties have resulted in completion of a watershed assessment and land use evaluation, and development of a restoration strategy for this tributary. Within the Severn Small Area, implementation of the restoration strategy has resulted in restoration of the baseflow, reclamation of a gravel mine, removal of fish passage barriers and amelioration of nonpoint source runoff from small livestock operations.

Piney Run and Stony Run are tributaries to the non-tidal portion of the Patapsco River. Piney Run drains the most northwest portion of the small area, including the location of the Arundel Mills Mall. This tributary flows northward and confluences with Deep Run at the Howard County-Anne Arundel County line. Deep Run flows into the Patapsco River near Linthicum. Stony Run drains the north central portion of the planning area, flowing northward through Harmans and the Baltimore Washington International Airport property, and confluencing with the Patapsco River near Linthicum.

Floodplains

Map 9 includes the 100-year floodplain in the Severn Small Area. Floodplains are the areas adjacent to a stream or river that are subject to flooding or inundation during storm events. The 100-year floodplain is the area adjacent to the stream or river that floods, on average, every 100 years. These floodplains have been identified through the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRM) and through specific floodplain studies. Such studies include the 1980 watershed management plan for the Severn Run which delineated the 100-year floodplains as part of the work effort. Additionally, Article 26 of the County Code requires developers to delineate the 100-year floodplain. These delineations are also included in Map 9. County Code prohibits lots from being platted in the 100-year floodplain and requires that the floodplain be retained in or restored to its natural state and dedicated and deeded to the County. Although the floodplain may be deeded to the County, the developer also reserves an easement to the community or homeowners association for the right to use the area in a manner not inconsistent with the maintenance and preservation of the 100-year floodplain.

Steep Slopes

Steep slopes are defined in County Code as a slope characterized by an increase in runoff, erosion, and sediment hazards and that (1) have an incline greater than 15 percent and (2) in the critical area have an incline of 15 percent or greater. The Severn Small Area lies outside of the critical area; therefore, the definition of steep slopes for this area would be those having an incline greater than 15 percent with the above characteristics. Within this Small Planning Area, steep slopes have been identified along portions of Severn Run, in selected areas south of Donaldson Road and east of MD 170, in the headwaters of Sawmill Creek, in the Quarterfield Road area near the eastern boundary of the planning area, and along portions of both Piney Run

and Stony Run (see Map 9). Outside of the critical area, development may occur within steep slope areas as per the provisions of Article 21, §2-302 of the County Code. These provisions include allowing development if at least 30 percent of the parcel to be developed has less than 15 percent grade and is contiguous to a County road that allows direct car access to the principal structure. Additionally, grading may not occur on a slope with a grade of 25 percent or more, or within 25 feet of the top of the slope.

Protected Lands

The Severn Run Natural Environmental Area is the largest contiguous parcel of protected land in the Severn Small Area. The Severn Run Natural Environmental Area is owned and managed by the Maryland DNR as a passive recreational area. This area has been zoned “open space” by the County. The intention of Open Space Zoning Districts is to preserve open areas for recreational use and to protect persons and property from the hazards of flooding. Lands included in Open Space Zoning Districts are shown in Map 9 and include the natural water drainage systems including wetlands and floodplains, public and private lands used for passive or active recreation, and lands designated as structural open space in the GDP. Other Open Space Zoning Districts in this area include:

- The waterways and floodplains of Severn Run and Beaver Creek tributary to the Severn Run;
- The waterways and floodplains of Piney Run and Stony Run in the non-tidal Patapsco River Watershed;
- The waterways and floodplains of Sawmill Creek in the tidal Patapsco River Watershed;
- A parcel of property adjoining the Severn Run Environmental Area located south of Sandy Hill Road and west of Quarterfield Road; and
- Queenstown Park, Severn Danza Park, Harmans Park, Meade Village Park and Van Bokkelen Elementary School.

Only a portion of the Severn Small Area is zoned as Residential Low Density (RLD). This area is located immediately adjacent to the Severn Run Natural Environmental Area in the southeastern portion of the Small Area. This zoning category is designed to act as a buffer or transitional area between designated development areas. Additionally, RLD zoning includes provisions for steep slope protection, preservation of woodland areas, protection of the 100-year floodplain and has designated setbacks from watercourses and wetlands.

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Forest and Woodland Standards

Development that is proposed in areas containing forest or woodland is required to meet conservation standards contained within the County Code. These standards have been adopted for the purpose of establishing criteria for the subdivision, grading, or clearing of forest and woodland areas. Anne Arundel County requires land developers to provide for the conservation and protection of forests, woodlands, and trees because of the significant beneficial effects of these natural resources. These benefits are realized through the quality of our air and water, plant and wildlife habitat, soil stabilization, and even maintenance of property values. These natural resources have historical value, provide recreational opportunities and visual attractiveness. It is the County's desire to encourage development that minimizes adverse effects on developing land. By requiring that forests, woodland and trees be incorporated into development proposals, the use of site planning and proper construction techniques will help protect these natural features.

To achieve its natural resource preservation goals and implement these conservation standards, the County has amended the grading, subdivision, and zoning ordinances with some specific performance criteria. The criteria establish forest and woodland conservation thresholds, and priorities for the retention of existing forest and woodland areas. They provide for maintenance and long term agreements, and require mitigation of cleared forest and woodland. Mitigation is accomplished through reforestation, afforestation and mitigation fees. The assessment and protection of existing forest and woodland on a proposed development site are achieved through required forest stand delineations and forest conservation plans. Enforcement for noncompliance with, or violation of, these standards is achieved with penalties, fines, fees, and mandatory replanting and replacement.

Anne Arundel County implements its forest and woodland standards through two regulatory programs that, combined, encompass the entire landmass of the County. For development occurring within 1000 feet of tidal waters or tidal wetlands, the County's Chesapeake Bay Critical Area Program applies. Development occurring elsewhere in the County is regulated by the County's Forest Conservation Act Program. While certain standards vary from program to program, the purpose and intent of conserving forest and woodland throughout the County remains the same.

Agricultural and Woodland Preservation Program

The Agricultural Land Preservation Program is the County's primary tool for preserving farmland and woodland. The objective of the program is to support the agricultural community by helping to keep the land base available for farming, and by minimizing the impact of development in agricultural areas. The County administers both the State and County programs. Prior to 1990, the primary means of preserving agricultural lands was through the State Agricultural Preservation Program. This program was active in the County when purchase of development rights began in 1978. In response to concerns for preserving smaller acreages of agricultural lands, the County established its own Agricultural Land Preservation and Acquisition Program in 1990. This is a voluntary program in which a landowner may enlist to form an Agricultural District, receive a property tax credit, and later may offer to sell a

development rights easement across the established District, to the County. The property owner continues to hold fee simple title and may sell the land if he/she chooses, but the easement which restricts development, runs with the land in perpetuity. Since 1992, the County program has been the major funding source for easement purchases.



The Boyer Farm dates back to 1840.

Requirements for participation in the Agricultural Land Preservation Program include:

- A minimum acreage requirement of 50 contiguous acres used primarily for agricultural production;
- USDA Soil Capability Class I, II, III, or Class IV (with C3 and D2 slopes) on at least 50% of the land and an approved Soil and Water Conservation Plan;
- The proposed property must be located outside of Water and Sewer Categories 1, 2, and 3 as indicated by the Master Plan for Water Supply and Sewerage Systems; and
- Current zoning of the proposed property must be Residential Agricultural (RA), Residential Low Density (RLD), Open Space (OS), or R-1 Residential.

The Severn Small Area does not have any property currently participating in the Agricultural Land Preservation Program.

Preservation of woodland properties is included in the Agricultural Land Preservation Program. Eligibility requirements for woodland districts include the following:

- Land to be included should contain at least 10 contiguous acres of woodlands per landowner;
- A minimum of 25 acres, contiguous in nature and classified as a Woodland District, is required for consideration of an easement offering;

- A Forest Management Plan, prepared for the woodland district applicants, must be reviewed and approved by the County Forest Conservation District Board and the County Forester;
- The current zoning of the property must be Open Space (OS), Residential Agricultural (RA), or Residential Limited Development (RLD);
- The proposed property must be located outside Water and Sewer Categories 1, 2, and 3 as indicated by the Master Plan for Water Supply and Sewerage Systems.

There are currently no woodland districts or easements in the Severn Small Planning Area.

Historic and Archaeological Resources

Historic sites and properties are sites, buildings, structures, districts, or objects that are significant in American history, architecture, archaeology, and culture and are generally 50 years old or older. An historic property usually possesses integrity of location, design, setting, materials, workmanship, feeling, and association. It may be of value to the nation as a whole, or important to the State of Maryland, Anne Arundel County, or simply the community in which it is located.

An historic property must possess at least one of the following criteria:

- Association with events that have made a significant contribution to the broad patterns of our history;
- Association with the lives of persons significant in our past;
- Distinctive characteristics of a type or period of architecture, method of construction, or the work of a master architect; high artistic value; or representative of a significant and distinguishable entity whose components may lack individual distinction; or
- Potential to yield or have yielded information important in prehistory or history.

Historic resources in Anne Arundel County reflect the County's 300-year history. The Maryland Inventory of Historic Properties in Anne Arundel County lists over 800 historic resources countywide. These resources include a diversity of sites and/or property such as dwellings, agricultural buildings, cemeteries, churches, commercial buildings, industrial and engineering structures, bridges, maritime resources, military structures, small villages and towns, and scenic and historic roads. Most of the County's historic resources are privately owned. Fewer than a dozen are open to the public. Within the County, 35 historic properties totaling 636 acres, are protected by historic preservation easements that are held either by the Maryland Historical Trust or the National Trust for Historic Preservation.

Within the Severn Small Area, there are a number of Historic Sites and Buildings. The identification of these sites and buildings can be found on Table 5 while Map 10 shows the relative locations of the documented sites. Additionally, those properties determined eligible for the National Register of Historic Places are denoted on Table 5 with an asterisk. Anne Arundel County offers protection to these historic sites via Federal and State regulations as well as County legislation. In addition to the National Historic Preservation Act and the Maryland Historic Preservation Act, historic and archaeological resources are protected by Anne Arundel County Code under Article 20, Section 2-102(8A)110.1.1; Article 26, Title 3-109; and Article 28, Section 10-125(B).



The John Lowman House (AA0868), built in the mid 19th Century, is eligible for the National Register of Historic Places. The farm house and property are adjacent to the Severn Run.

In addition to the documented historic resources, Anne Arundel County has more recorded archaeological sites than any other county in Maryland, with many more sites still to be discovered. These sites span the entire 13,000 years of human presence in the area and represent a unique and non-renewable piece of cultural heritage. The assessment of archaeological potential for unknown sites is generally based on topographic and environmental settings. Three documented prehistoric resources within the County include the 13,000 year old Higgins site, the earliest undisturbed site in Maryland; the Garman Site with the oldest fireplaces excavated in the State; and the Adena Site which contains exotic and unexplained artifacts from the Ohio River Valley. The highest potential for prehistoric sites is along the Bay shoreline or the Patuxent River and its tributaries.

Significant historic archaeological sites include the house sites of the County's first European settlement at Providence in 1649; the Stewart Shipyard burned by the British in 1781; and the lost town of London on the South River. While the oldest of these sites are clustered along navigable waterways, later archaeological and historic sites can be found in more wide-ranging locales such as farmsteads or homes along old roads or railroads. Locations of archaeological sites are not identified to preserve and protect these resources.

Along with Federal and State laws protecting archaeological resources, the County also protects such sites during its review of residential and commercial subdivisions, critical area allocations, zoning change requests, etc. As with historic buildings and sites, the principal County mechanism for protecting archaeological sites is found in Article 26, Title 3-109 of the Anne Arundel County subdivision regulations.

In November of 1997, the County Council passed a resolution recognizing the importance of historic and scenic roads in Anne Arundel County. The resolution calls for future legislation to implement a Historic and Scenic Roads Program for the County. Such a program will designate certain roads as scenic and historic and create road design standards and adjacent development standards for these designated roads. The purpose of such a program is to protect

the scenic quality and historic significance of many of the oldest roads in Anne Arundel County. Many of the suggested roads are listed in the recommendation section of this chapter and shown on Map 10.

The following roads have important historical significance in the settlement of the Severn Small Area, as well as the greater Baltimore/Washington region. These roads have changed significantly over time and have become minor or principal arterials. They are therefore not appropriate candidates for an historic and scenic roads program. However, the historic significance of them deserves recognition.

These roads are as follows:

- Telegraph Road (MD 170)—Although its original characteristics are gone, this road should be recognized because of the telegraph lines installed in the very early years of telegraph operations along the road. The date is still being researched, but it was before 1860.
- Ridge Road (MD 713)—One of the earliest north-south roads in the area.
- Annapolis Road (MD 175)—One of the earliest east-west roads in the area.
- Reece Road (MD 174, between MD 170 and MD 175)—This road is shown on Martenet’s Map of Anne Arundel County, 1860.
- Severn Road—This road is shown on Hopkins Atlas of 1878 as a private road.

Assets and Issues

In the past several decades, the Severn Small Area has begun the transformation from a predominantly rural landscape to a suburban landscape. The move toward suburbia can be tied to the growth of Fort Meade and the National Security Agency, as well as the location of this community relative to major transportation hubs such as BWI Airport and the AMTRAK/MARC station in Odenton. Additionally, transportation corridors such as I-95, I-97, the Baltimore Washington Parkway, US 1, MD 100 and MD 32 all provide ready access to this community from Baltimore, Washington D.C., Columbia, Ellicott City and Annapolis. While the easy access to transportation is viewed as an asset to this community, it also raises concerns regarding the best way to manage the ongoing growth while preserving the natural and historic resources of the Severn Small Area.

Input from the first Small Area Plan Public Forum for Severn indicated that residents are concerned about preserving and enhancing the natural environment and about preserving the historic resources of Severn. Assets identified by the residents included the rural character of the community, as well as the open spaces and wooded areas of Severn. Issues that were identified included the loss of woodlands and farmland to development, the increase in stormwater runoff from development, noise and air pollution tied primarily to air traffic, and the congested road system.

Streams and Watersheds

Each of the streams and their watersheds identified in the Existing Conditions section are unique natural resource assets for the Severn Small Area. Of particular importance, given their public attention and unique characteristics, are Sawmill Creek and Severn Run. The Sawmill

Creek subwatershed has been the subject of study and rehabilitation that was initiated, funded, and implemented by the State as part of a unique watershed restoration program. The tributaries draining the Severn Small Area support a diverse biological community that includes, to some extent, migratory fish such as American Eel. The identification and removal of barriers to migratory fish passage would, conceptually, enhance the diversity of the fish community in these tributaries. Additionally, changes in the flow regimes of these streams due to stormwater runoff may influence stream bank stability and transport of sediment downstream. This, in turn, would affect available habitat types for the biological community. Given the importance of these natural resources to this community, the recognition, conservation, and protection of the streams and watersheds are issues addressed by the Plan.

The County does not have a requirement for maintaining riparian buffers adjacent to perennial streams outside the Critical Area. However, implementation of the *2001 Anne Arundel County Stormwater Practices and Procedures Manual* requires delineation of stream buffers as part of the development process. Effective riparian buffers are usually forested and between 35 and 100 feet wide, although widths up to 300 feet have been recommended for wildlife habitat. Riparian buffers provide a wealth of ecological benefits. In particular, these buffers help to filter runoff from storm events, removing pollutants and sediments from the overland flow before it reaches the streams. Forested riparian buffers also serve to reduce downstream impacts of floods and shade the streams, which helps moderate water temperature and oxygen content of these streams. Water temperature and oxygen content are especially critical to the Designated Use IV streams (Severn Run and its tributaries) found in the Severn Small Area. A more thorough review of the existing extent and condition of forested riparian buffers is needed in the Severn Small Area.

Another asset to the community will be the Severn River Watershed Management Master Plan, initiated in the fall of 2000. This plan will include citizen input into the identification of perceived problems and will coordinate activities with local environmental organizations focused on the Severn River Watershed (e.g., Severn River Association, Severn River Commission). The results of this management plan will be used to assist the County in making development-related decisions that will preserve and protect the entire Severn River watershed.

Floodplains

As noted earlier, County law requires dedication and deeding of 100-year floodplains to the County when development occurs. This process is an asset to the County in protecting these waterways and their floodplains from encroaching development while providing areas that are potentially useful for community recreation.

Protected Lands

Participants in the first Small Area Plan Forum for Severn identified open space and parks as assets to the community. These areas provide passive recreational opportunities to the residents of the Severn Community as well as habitat for other species (e.g., forest interior dwelling birds). Preservation and protection of contiguous areas of open space and forested lands should continue.

Agricultural and Woodland Preservation Program

Although the Severn Small Area does not have any agricultural or woodland parcels participating in the County or State Agricultural Land Preservation Program, there may be several parcels that are eligible. Residents participating in the public forum identified the preservation of the rural country atmosphere as an asset to this community. Developing a mechanism by which more agricultural land parcels can participate in a land preservation program is an issue needing further exploration and action. Additionally, continued support for the farming industry, including promotion of increased and more diverse farming efforts (e.g., agriculture, nursery/landscaping activities, equestrian activities) is an issue to be pursued.

Likewise, the preservation of smaller parcels of high quality woodlands was identified as an issue. It was determined that many woodlands in more suburban areas, such as the Severn Small Area, would not qualify for inclusion in the County's current program, but should still be considered as resources in need of preservation. Developing a mechanism by which these lands can be preserved is an issue needing further action.

Quality of Life

Quality of life issues that relate to the natural resources of the Severn Small Area were identified to include noise and pollution resulting from air traffic, noise and aesthetic issues associated with the Pennsylvania Railroad Line, and air pollution from diverse sources. Each of these identified issues is addressed in the recommendation section that follows.

Table 5. Historic Buildings and Sites in the Severn Small Area

Site #	Property Name	Street #	Street Name
AA0119*	Basil Smith Farm		Telegraph Rd.
AA0124*	Piney Run	7522	Ridge Rd.
AA0125	Wm. Shipley House (site)		Ridge Rd.
AA0231	Hawkins House		Routes 170 & 176
AA0750	Boyer Tenant House		Boyer Rd.
AA0867*	Dorchester Concrete Block House		Wright Rd.
AA0868*	John Lowman House	8187	Telegraph Rd.
AA0877	Jeffrey Cemetery		Ridge Rd.
AA0978	Kelly/Hawkins House		Kelly Lane
AA0979	Ridge Methodist Church		Ridge Lane
AA0998	Rupert Smith Farm		Telegraph Rd.
AA0999	Lyndall Warfield House	7833	Telegraph Rd.
AA1000*	Queenstown School		Queenstown Rd.
AA1007	Lowman Mill (site)		Old Mill Road
AA1015	Disney Cemetery		Jacobs Rd.
AA1030	Daniel Smith Farm (site)		Rt. 652
AA1031	T.R. Goodwin Farm (site)		Severn Rd.
AA1032	George Shipley Farm		Harmans Rd.
AA1035	Matthias Harman Cemetery (mvd)		Dorsey Rd. (south)
AA1036	J. Warfield Farm		Ridge Rd.
AA1037	J.A. Disney Farm		Ridge Rd.
AA1054	Shipley Farmhouse		Ridge Rd.
AA1066	Adam Alexander Shipley Farm		Ridge Rd.
AA1067	Disney Rd. Farmhse & Cemetery		Disney Rd.
AA1068	Disney Rd. Cross-wing Farmhse		Disney Rd.
AA1075	Harmans		Old Coaling & Old Dorsey
AA1076	Severn		Severn Rd.
AA1077	Severn Rd. Victorian House		East side Severn Rd.
AA1078	Severn United Methodist Church		Old Camp Meade Rd.
AA1079	Severn Public School		Old Camp Meade Rd.
AA1080	Reece Rd. Cross-Gable Farmhouse		Reece Rd.
AA1089	Clark Road Frame I-house		Clark Rd.
AA1094	New Cut Road Farm		New Cut Rd.
AA2114	Fields House		Rt. 175

- Determined eligible for the National Register of Historic Places

Table 6. Historic Cemeteries and Grave Sites in the Severn Small Area.

Site #	Location
Unnumbered	Located on Arundel Mills Mall property, just south of Rt. 100 at the site of the old Prospect M. E. Church; site found to contain 4 graves; remains to be reinterred at Nichols Bethel Cemetery, Odenton, MD.
407	Located off Ridge Chapel Road and surrounded by Chesapeake Mobile Homes Trailer Park.
408	Located west of WB&A Road on Evergreen Road.
431	Located south of Reese Road and ¼ mile west of the railroad tracks at the corner of Redmore Drive and Redmore Court in the Redbridge Development.
432	Located off Rt. 554 and Jacobs Road, past the Stillmeadow Subdivision and Stillmeadow Drive on the north side of the road.
434	Located on the east side of Quarterfield Road, approximately 2-½ miles southwest of Meadow Road, on a knoll near 8060 block of Quarterfield Road.
435	Located 300 feet east of the southeast junction of Rt. 170 and Donaldson Road on Old Donaldson Road.
439	Located east of Rt. 652 on Smith Avenue, midway along road on the left; in Plummer's pasture on property owned by Basil Smith.
443	Located on "Severn Run Farm" north of Severn Run, off Rt. 170 in wooded area approximately 100 feet off road.
444	Located on Disney Road, high above the road and surrounded by an iron fence.
447	Located off Rt. 176 behind 84 Lumber Company at Rt. 170 on the southwest side of the road.
451	Located about 200 feet past the end of Faulkner Road, on top of the hill.
456	Located south of Severn Road on Severn Tree Road in Severn Village Development on the left. Overgrown to protect from vandalism at the request of the family.
461	Located on the southeast edge and just outside of Harman's Park, near the ballpark, in a wooded area.
462b	Located at the rear of 672 Donaldson Road (Faulkner property in 1996). Cemetery is on both sides of the road past gravel road. The road is not passable by car.
463	Located at 543 Old Oak Road; site leveled by Mr. Knopp. Graves were not disturbed.
464	Located on Severn Road between Pines Court and Severn Station Road.
472	Located south of an unnamed road joining 2 sections of Old Oak Road.
518	Located on Harman's "The Wilderness", south of Rt. 176 at the end of a small unnamed road off the community parking lot east of the B/W Parkways and below the ramp. Location is considered questionable.

* Numbering system is taken from: Simmons, Christine N. 1997. Cemetery Sites in Anne Arundel County, Maryland. The Anne Arundel Genealogical Society.

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Goals and Recommendations

Goal 1: Preserve and protect environmentally sensitive areas such as steep slopes, wetlands and forested areas through strict environmental enforcement, regulatory incentives and acquisition.

Recommendation 1. Evaluate the implementation of the Forest Conservation Act (Bill 71-94) to ensure forest conservation thresholds and reforestation requirements are met, that forested areas are contiguous with other forested areas whenever possible and located within the same major watershed (i.e., one of the County's twelve major watersheds).

Recommendation 2. Investigate the creation of a new woodland preservation program geared to smaller parcels and with less restrictive qualifying requirements than the existing program.

Recommendation 3. Increase public awareness of existing alternative land preservation programs such as the Severn River Land Trust and the Maryland Environmental Trust.

Recommendation 4. Investigate the possibility of reforestation and forest conservation on County surplus property as it becomes available.

Recommendation 5. Steep slopes and banks must be preserved through the enforcement of the regulations in the grading and sediment control ordinance. New developments should not create permanent steep slopes.

Recommendation 6. Support the County's conservation efforts, in conjunction with the Forest Conservation Act, by encouraging the planting of more hardwood trees (e.g., oak, hickory, beech).

Goal 2: Preserve and protect contiguous open space and greenways.

Recommendation 1. Support the County's development of a Greenways Master Plan for the County, identifying areas already being protected and targeting areas for future preservation.

Recommendation 2. Considered additional areas in the Severn Small Area, such as areas adjacent to existing open space, parkland and floodplains.

Goal 3: Preserve and protect streams and their watersheds through strict environmental enforcement of existing laws, regulatory incentives and acquisition.

Recommendation 1. Support identification, through signage, of perennial tributaries to the Chesapeake Bay for purposes of heightening environmental awareness.

Recommendation 2. Establish, implement and enforce, where possible, a 100 foot riparian buffer protection standard along perennial and intermittent streams.

Recommendation 3. Support the County's program to identify and remove barriers to migratory fish passage.

Recommendation 4. Update the County's database and GIS coverage of wetlands and concurrently pursue methods to conserve high quality wetlands, as possible, through such means as conservation easements.

Recommendation 5. In cooperation with the State, investigate the effects of BWI de-icing chemical runoff into adjacent streams, specifically Sawmill Creek.

Goal 4: Preserve to the extent possible the agricultural heritage of the Severn Small Area. Preserve existing farmland by supporting efforts of farmers and the existing farming industry. Promote increased farming efforts including agriculture, nursery/landscaping activities and equestrian activities.

Recommendation 1. Using existing legal mechanisms, promote the intergenerational conveyance of farming activities and provide incentives for continued farming activity.

Recommendation 2. Promote awareness of and develop markets for local products through farmers' markets.

Recommendation 3. Investigate the development of a public, quasi-public or private foundation for the preservation of farmland as an alternative to business or residential development for families who are leaving farming. Such investigation would include assessment of existing organizations with similar missions, either County, State or Federal.

Recommendation 4. Support the creation of a new program which will mesh with the State's Rural Legacy Program and Agriculture Preservation Program but can be geared to smaller parcels, with less restrictive qualifying requirements.

Recommendation 5. Create an agricultural parcel inventory identifying land currently in agricultural use to create a heightened awareness of those sensitive parcels and to acquaint the land owners with the preservation programs available.

Goal 5: Improve stormwater management to reduce and, where possible, eliminate the negative environmental impacts of stormwater runoff.

Recommendation 1. Implement a watershed approach to stormwater management, land use planning, development, permitting, and capital improvement program planning and execution to ensure that potential cumulative impacts of land use changes are fully addressed prior to implementation of those land use changes.

Recommendation 2. Adopt and implement stormwater management regulations into County laws, regulations, standards and guidelines resulting in County regulations and

requirements that are at least as stringent, if not more stringent, than State regulations and requirements.

Recommendation 3. Ensure all engineering design for stormwater management facilities is site appropriate and strictly adheres to the Maryland Stormwater Design Manual or County Stormwater Design Manual, whichever is more stringent.

Recommendation 4. Encourage the use of innovative approaches to stormwater management and low impact development site design techniques in the land development process (e.g., *Better Site Design: A Handbook for Changing Development Rules in Your Community*, 1998, prepared by the Center for Watershed Protection, Ellicott City, MD).

Recommendation 5. Continue and, if possible, accelerate the County's ongoing effort to comprehensively identify, analyze and, where needed, retrofit stormwater management problem areas.

Recommendation 6. Account for and minimize impacts to the 100-year floodplain with respect to stormwater runoff increases and the need for stormwater management design to accommodate increases in runoff resulting from comprehensive and site-specific rezoning.

Recommendation 7. Establish a comprehensive stormwater infrastructure preventative maintenance and management program that reduces environmental degradation and extends infrastructure useful life.

Recommendation 8. Aggressively pursue incentive-based approaches (e.g., state grant funds) to achieve retrofitting of areas in need of improved stormwater management.

Recommendation 9. Ensure that all governmental sponsored land use projects adhere to the highest environmental regulations and standards with regard to site design and stormwater management facilities, thus setting the environmental standard to be followed.

Recommendation 10. Implement, where possible, a minimum 100 foot riparian buffer to all tributary streams in the County to minimize impacts of stormwater runoff on these sensitive tidal and non-tidal aquatic systems.

Recommendation 11. Foster community education about stormwater issues through cooperation with local citizen groups, public and private schools, park and recreation programs and use of the Internet.

Recommendation 12. Develop and implement, on a continuing basis, a program to stencil storm drains to enhance community awareness that these storm drains direct runoff to tributaries of the Chesapeake Bay.

Goal 6: Protect the quality of life in the Severn Small Area by reducing the noise and pollution impacts on its residents.

Recommendation 1. Create a 100-foot (50 foot each side) wooded buffer from the Pennsylvania Railroad Line.

Recommendation 2. Encourage the State to continue to investigate sources of air pollution and enforce air quality regulations.

Recommendation 3. Encourage the continued and improved dialogue between BWI planners and the residents of the surrounding areas to build upon the existing BWI Neighbors Committee by working closely on future plans for the airport's maintenance and growth.

Recommendation 4. Due to the recent discovery of naturally occurring radium in drinking water sampled from a certain number of individual wells concentrated in the northern portion of Anne Arundel County, including the Severn Small Area, ensure that existing information ("Radium and You" Guide) is distributed to homeowner associations, businesses, civic organizations, etc in the area. Encourage continued scientific study on the extent of contamination and ways to ameliorate the problem.

Goal 7: Preserve and protect historic buildings and historic sites in the Severn Small Area.

Recommendation 1. Establish a specific design review and approval process for development adjacent to or impacting historic buildings and sites.

Recommendation 2. Identify historic buildings and sites in the Severn Small Area, including dwellings, agricultural buildings, churches, military structures and small villages and towns, with historic markers.

Recommendation 3. Identify and preserve, to the extent possible, the historic cemeteries located within the Severn Small Area as noted in Table 6.

Goal 8: Create standards for developments abutting scenic and historic roads that minimize, if not eliminate, alterations to the roads, as well as preserve the scenic view and character of the roadway.

Recommendation 1. Incorporate into the County's proposed revisions to the zoning laws, the subdivision laws, the transportation master plan, the road design manual the landscape manual, the forest conservation ordinance and other land use laws, the regulatory tools necessary to fully implement the scenic and historic roads program as set forth in Resolution No. 45-97, adopted by the County Council on November 3, 1997.

Recommendation 2. Establish a specific design review and approval process for development adjacent to or impacting scenic and historic roads.

Recommendation 3. Establish specific design guidelines and protective buffers for scenic and historic roads.

Recommendation 4. Establish new County road standards in the road design manual for scenic and historic roads for both construction and maintenance.

Recommendation 5. Work with the State Highway Administration (SHA) to establish state road standards for scenic and historic roads.

Recommendation 6. Designate the following roads in the Severn Small Area as scenic and historic and add them to the County's current list. In addition, as the Scenic and Historic Roads Program gets underway allow for additional roads to be added to the list if the criteria (as set forth in Resolution No. 45-97) are met.

Burns Crossing and Clark Station Roads - This road existed before 1840 and still retains some of its winding and scenic characteristics. Originally known as "The Public Road" leading from the forks of the Patuxent through Piney Woods to the City of Baltimore.

New Cut Road - In the Atlas of Anne Arundel County, MD, G.M. Hopkins, 1878, this road is identified as "Light Street Road". It retains much of its scenic and rural characteristics.

Quarterfield Road, between Donaldson Avenue and Clark Station Rd- The reference in the Hopkins Atlas (as identified above) identifies this road as "New Light Street Road." This road also retains some of its scenic and rural characteristics.

Old Mill Road - The most unchanged road in the Severn Small Area. This road is shown on Martenet's Map of 1860 and was the site of the "Pumphrey and Cecil Grist and Saw Mill." Although frequently flooded, it is very scenic and natural.

W.B. & A. Road - A county road built on the roadbed of the Washington, Baltimore and Annapolis Electric Railroad. The railroad operated from 1908 until 1935. A few areas are unchanged from 1935. Station sites should be identified and marked.

Baltimore and Potomac Railroad - This railroad was built in 1868 and is now known as the MARC Penn Line. The Severn Station is shown on the Hopkins Atlas of 1878.